APPROVAL TO DRILL A WELL

National Energy Board | Office national de l'énergie

Exploratory ☐ Development ☐ | Delineation ☒ Service ☐

APPROVAL TO DRILL A WELL

Revised

This application is submitted under Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations, it is the requisite approval for the commencement of drilling operations.

Well Name: Paramount Anadarko Bovie J-76

Operator: Paramount Resources Ltd. | Drilling Program No.:

Contractor: Shatah Drilling Ltd. | Interest Identifier: EL 369

Drilling Rig or Unit: 4E | Estimated Well Cost: $3,500,000.00

Location-Unit: J | Section: 76 | Grid Area: 60° 20' 122° 45'

Coordinates: Lat.: 60° 15' 44.439" | Long.: 122° 59' 04.953"

Area: Bovie, NWT | Field/Pool: N/A

Elevation (KB/RT: 417 (ASL) | GL/Seafloor: 411

Approx. Spud Date: December 15, 2001 | Est. Days on Location: 55

Anticipated Total Depth: 3299 | Target Horizons: Slave Point, Nahanni

EVALUATION PROGRAM

Ten-metre sample intervals

Five-metre sample intervals: Surface to total depth

Canned sample intervals: Surface to total depth

Conventional cores at: N/A

Logs and Tests: SP-Gr-XYZ Cal-HDIL, DL/CNI/GR/XY Cal, Micro Log, MRI; DST's in Slave Point, Sulphur Point, Nahanni, Manetoe.

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing Program (m^3)
339.7	81.10	K-55	500	56m^3 0:1:0 G
244.5	53.57	J-55	1016	21m^3 0:1:0 G
177.8	38.69	L-80	2799	29m^3 1:1:2 G + 12m^3 Thermal 40F
114.5	17.26	L-80	3299	9m^3 Thermal 40F

B.O.P. Equipment: 35mPa BOP stack and manifold. Stack to have annular preventer, 2 pipe rams and 1 blind ram and spaced spool. Manifold to have a double choke and kill line. Flow Director for surface hole.

Other information:

Signed: Wayne R. Tomm (Responsible Officer) | Title: Sr. Drilling & Completions Engineer

Name: Wayne R. Tomm | Company: Paramount Resources Ltd.

Date: December 10, 2001 | Phone: 403-290-3600

APPROVAL

An approved copy of this notice is to be posted at each worksite.

Date: Dec 20/01 | Signed: D M Baker

File: 9211-P033-17-1 | *Chief Conservation Officer*

WID: 1931

UWI 300K766020122450

APPROVAL TO ALTER CONDITION OF A WELL

National Energy Board | Office national de l'énergie

APPROVAL TO ALTER CONDITION OF A WELL

This application is to be submitted to the Chief Conservation Officer at least 45 days before commencement of operations.

Well Name: Paramount Anadarko Bovie J-76 Area: Ft. Liard

Operator: Paramount Resources Ltd. Contractor: Precision Well Services

Drilling Rig or Unit: 55 Depth: 3353

Coordinates: Lat: 60° 15' 44.439" Long: 122° 59' 04.953"

Date ADW Issued: December 20, 2001 (ADW # 1931) Date of last Operation: February 10, 2002

Elevation-KB/RT: 417 (ASL) GL/Seafloor: 411

TYPE OF OPERATION

With a service rig: perforate, stimulate and test five individual zones in the ...in the well. The individual zones will be Arnica, Nahanni, 2-Sulphur Point ...and Slave Point.

SUMMARY OF PROPOSED OPERATIONS

1. Clean out hole with bit and casing scraper.
2. Perforate the Arnica 3095 - 3115m, acid stimulate and test.
3. Isolate the Arnica; perforate the Nahanni 3001 - 3012m and 3017 - 3024m, acid ...stimulate and test.
4. Isolate the Nahanni; perforate the lower Sulphur Point 2971 - 2986m, acid ...stimulate and test.
5. Isolate the lower Sulphur Point, perforate the upper Sulphur Point 2914 - 2936m ...acid stimulate and test.
6. Isolate the upper Sulphur Point; perforate the Slave Point 2862 - 2880m ...and 2885 - 2894m, acid stimulate and test.
7. Suspend the well by running plugs in tubing.

Signed: Wayne R. Tomm (Responsible Officer) Title: Sr. Drilling & Completions

Name: Wayne R. Tomm Company: Paramount Resources Ltd.

Date: February 14, 2002 Phone: 403- 290-3600

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Date: Feb. 25/02 Signed: T W Baker (Chief Conservation Officer)

File: 9211-P033-17-1

WID: 1931

UWI 300J766020122450

Well Status

Suspended ☒

Completed ☐

Abandoned ☐

WELL TERMINATION RECORD (with attachment)

CANADA

WELL TERMINATION RECORD

(This record is submitted in triplicate in compliance with Section 184 of the Canada Oil and Gas Drilling Regulations.

WELL DATA

Well Name: Paramount Anadarko Bovie J-76 Area: Fort Liard

Grid Area: 60°20', 122°45' Field/Pool: N/A

Permit or Lease No.: EL369 Final Coordinates: Lat.: 60°15'44.439" Long: 122°59'04.953"

Drilling Unit: J-76 Elevations ~~RT~~/KB: 417 ~~KB~~/GL: 411

Spud Date: December 22, 2001 Rig Released: February 10, 2002 Total Depth: 3353

CASING AND CEMENTING

O.D.:	Weight:	Grade:	Depth Set:	Cement and Additives:
339	81.1	K-55	511	61 Tonnes Class "G"
244.5	53.6	J-55	1028	42 Tonnes Class "G"
177.8	38.69	L-80	2808	44 Tonnes Thermal 40F
114.3	17.26	L-80	3353	9.53 Tonnes Thermal 40F

PLUGGING PROGRAM

Approval of the following program was obtained by (person) N/A from

(person) by means of

on 19 .

Type of Plug:	Interval:	Fell:	Cement and Additives:

Lost Circulation/Overpressure Zones:

Equipment left on Seafloor (Describe):

Provision for Re-entry (Describe and attach sketch):

Cores: Type: Intervals:

Other Downhole Completion/Suspension Equipment: As per attached battomhole diagram

CERTIFICATION

I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate.

Signed: P. Eng. Title: Sr. Drilling and Completions Engineer

Name: Wayne Tomm Date: April 18, 2002

Acknowledged by: Engineering Branch

Date: April 22/02

File: 300J76020122450

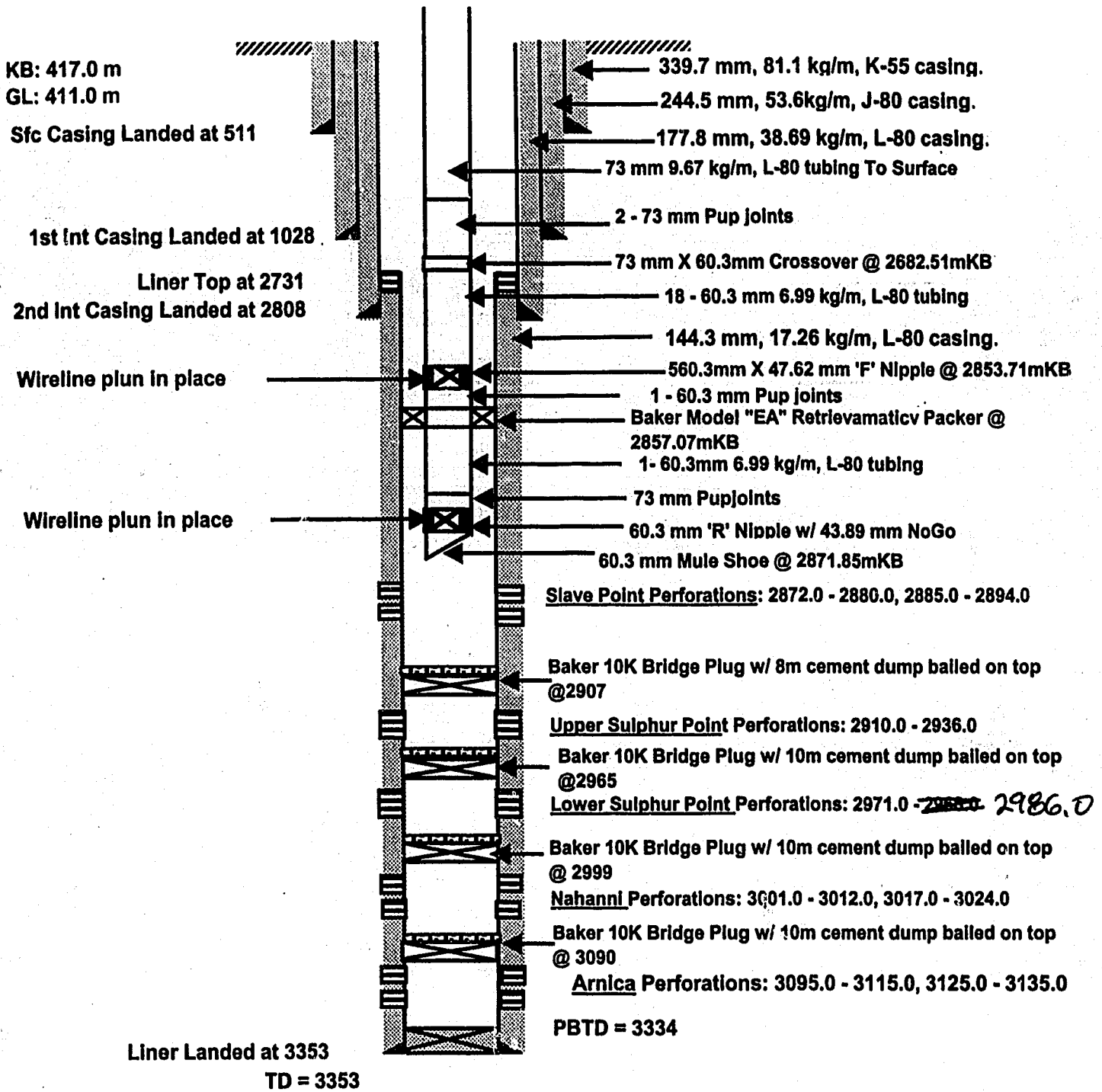
Well Status
Suspended ☒
Completed ☐
Abandoned ☐

WID 1931
FILE 9211-P33-17-1

Canada

PARAMOUNT ANADARKO BOVIE J-76

As at April 08, 2002



FINAL WELL REPORT

FINAL WELL REPORT

Paramount Resources Ltd.

Paramount Anadarko Bovie J-76

Grid: 60^0 20', 122^0 45'

N.E.B. COPY

DATE: 21 May 2002

COMPANY REPRESENTATIVE:
Wayne Tomm

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A. INTRODUCTION

Paramount Resources Ltd. drilled a 3350 meter exploratory well, spudded on December 22, 2001 and finishing setting production liner to 3350 meters on February 19, 2002. The main target of the well was the Nahanni at 3030 meters with the secondary targets being the Slave Point at 2799 meters and the Sulphur Point at 2954 meters.

The drilling contractor was Shehtah Drilling Rig #4E based out of Yellowknife, NWT. The rig was rated for 4000 m and had an 83 m^3 mud system.

The well was drilled on Exploration License No.369 in which Paramount Resources Ltd. has a 50% working interest. Operating License: **Paramount Anadarko Bovie J-76**
WID: 1931
File: 9211-P033-17-1
UWI: 300J766020122450
was issued to Paramount Resources Ltd. on December 20, 2001.

The well which is located approximately 30 km east of Fort Liard, lies structurally up dip of the C-76 gas discovery towards the east.. The well was planned to test the same structural closure of the C-76 well. The exact co-ordinates of the well are as follows: Latitude: 60^0 15' 44.439" N, Longitude:122^0 59' 04.953" W

A Cancor Rathole Inc. rathole rig was moved onto the location on December 11, 2001. The 610 mm conductor hole was drilled to a depth of 10m. While drilling the conductor hole , encountered clay to a depth of 10 m. The 508 mm heavy walled conductor pipe was set at 10m and cemented in place.

Shehtah Drilling Rig #4E was moved onto the location starting on December16, 2001. The diverter was nippled up and function tested with the HCR. The well spudded on December 22, 2001, at 08:00 hours. The 444.5 mm surface hole was drilled to 511 mKB by first drilling 311 mm then opening up to 444.5 mm. Mud ring problems were encountered at approximately 250 mKB. There were no losses to the formation during the drilling of the surface hole. Surface casing of 339.7 mm, 81.1 kg/m, K-55 LT&C casing was run and set at 511 mKB. The surface casing was cemented with 61 tonnes 0:1:0 'G' cement plus 1% $CaCl_2$ with good cement returns throughout the job.

The 13 5/8'BOP's were installed, function tested, and pressure tested to 1400 kPa and 14000 kPa for 10 minutes each. The float collar and shoe were drilled out on January 05, 2002. A formation leak off test was done and the gradient was taken to 27.5kPa/m with formation breakdown. The 311 mm 1^{st} intermediate hole was drilled with an Invert Oil Mud system to a depth of 1028 meters. No problems were encountered. The Mud weight was 905 kg/m^3. Mud motors were utilized to control deviation and enhance penetration. After reaching total depth the open hole density, induction, and sonic logs were run from TD to the surface casing shoe. No

DST's were run on this section of the hole. A 244.5 mm, 53.57 kg/m, J-55, LT&C intermediate casing was run and set at 1028 mKB. The casing was cemented with 42 tonnes 0:1:0 'G' cement plus 0.4% FL-77. The plug was bumped with 8000 kPa over pump pressure and the pressure held. The plug was down at 11:48 hours on January 10, 2002. There were full returns during cementing. The cement top is surface.

The BOP's were re-installed, function tested, and pressure tested to 1400 kPa and 14000 kPa for 10 minutes each. The float collar and shoe were drilled out on January 11, 2002. A formation leak off test was done. The 222 mm 2nd Intermediate hole was drilled with an Invert Oil Mud system to total depth of 2808m. Mud motors were utilized to control deviation problems and enhance penetration. After reaching total depth the open hole density, induction, and sonic logs were run from TD to the 1st intermediate casing shoe. No DST's were run on this section of the hole. A 177.8 mm, 38.69 kg/m, L-80, LT&C intermediate casing was run and set at 2808 mKB. The casing was cemented with 44 tonnes Thermal 40 cement plus 0.10% R-6N + 0.30% FL-63 + 0.5% CD-31 and 1.00% Sepiolite. The plug was bumped with 28000 kPa and the pressure held. The plug was down at 5:15 hours on January 26, 2002. Calculated cement top to be 1000 mKB.

The BOP's were re-installed, function tested, and pressure tested to 1500 kPa and 35000 kPa for 10 minutes each. The float collar and shoe were drilled out on January 28, 2002 at 24:00 hours. A formation leak off test was done with no leak off detected. The 152mm hole was drilled with a water/polymer gel chem. system to total depth of 3350m. Mud motors were utilized to control deviation problems and enhance penetration. After reaching total depth the open hole density, induction, micro and sonic logs were run from TD to the 2nd intermediate casing shoe. One DST was run on this section of the hole from 2868 – 2885m(missrun). A 114.3 mm, 17.26 kg/m, L-80, LT&C production casing was run and set at 3349mKB. The casing was cemented with 9.35 tonnes Thermal 40 cement plus 0.10% R-6N + 0.30% FL-63 + 0.5% CD-31 and 1.00% Sepiolite. The plug was bumped with 24000 kPa and the pressure held. The plug was down on February 08, 2002. Reverse circulated out excess cement from top of liner hanger.

The drilling rig was released February 10, 2002 at 12:00 hours.

B. GENERAL DATA

1. Well Name: Paramount Anadarko Bovie J-76

   Authority to Drill a Well No: 1931 Issued December 20, 2001

   Exploration Agreement Number: EL 369

   Location Unit: J

   Section: 76

   Grid Area: 60^0 20', 122^0 45'

   Classification: Exploration Well

2. Well Location: J-76 60^0 20' N, 122^0 45' W
   Coordinates: Latitude: 60^0 15' 44.439" N
   Longitude: 122^0 59' 04.953" W

3. Unique Well Identifier: 300J766020122450

4. Operator: Paramount Resources Ltd.

5. Contractor: Shehtah Drilling Limited

6. Drilling Unit: Rig #4E

7. Support Craft (Helicopter): N/A

8 Drilling Unit Performance: N/A

9. Difficulties and Delays: No major delays or difficulties

10. Total Well Cost: $4.1 mm

11. Horizontal Deviated Wells Require Bottom Hole Co-ordinates:
    Latitude: N/A
    Longitude: N/A

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
   Ground: 412.0 m
   KB: 417.3 m
   KB to Casing Flange: 5.80 m

2. Total Depth:
   FTD: 3350 mKB
   PBTD: 3335 mKB
   TVD: 3350 mKB

3. Date and Hour Spudded: December 22, 2001 at 08:00 hours

4. Date Drilling Completed: February 08, 2002

5. Date of Rig Release: February 10, 2002

6. Well status: Suspended

7. Hole Sizes and Depths:

Conductor Hole:	610 mm to 10 mKB
Surface Hole:	444.5 mm to 511 mKB
1st Intermediate Hole:	311 mm to 1028 mKB
2nd Intermediate Hole:	222 mm to 2808 mKB
Main Hole:	152 mm to 3350 mKB

8. Casing and Cementing Record:

Conductor Hole:

Casing Size:	508 mm
Casing Weight:	Heavy Weight
Depth Set:	12.0 mKB
Cut Height:	At Surface
Date Set:	December 18, 2001
Cement Volume:	40 sacs
Cement Type:	Construction
Additives:	None reported

Surface Hole:

Casing Size:	339.7 mm
Casing Weight:	81.1 kg/m
Casing Grade:	K-55
Casing Make:	Ipsco

Number of Joints:	40
Thread:	LT&C
Depth Set:	511mKB
Cut Height:	At Surface
Date Set:	January 01, 2002
Cement Volume:	61 Tonnes
Float Shoe Depth:	511 m
Float Collar Depth:	496 m
Cut Off Depth:	Surface
Cement Type:	0:1:0 'G' cement
Additives:	1.0% $CaCl_2$
Cement Top:	Surface
Casing Bowl Size:	346 mm X 339.7 mm X 35 MPa
Casing Bowl Make:	ABB Vetco

1st Intermediate Hole:

Casing Size:	244.5 mm
Casing Weight:	53.57 kg/m
Casing Grade:	J-55
Casing Make:	Ipsco
Number of Joints:	74
Thread:	LT&C
Depth Set:	1028 mKB
Cut Height:	Surface
Date Set:	January 10, 2002
Float Shoe Depth:	1028 m
Float Collar Depth:	1013 m
Cut Off Depth:	Surface
Cement Volume:	42 Tonnes
Cement Type:	0:1:0 'G'
Additives:	0.408% FL-77
Cement Top:	Calculated 250 meters
Casing Spool Size:	346 mm x 279.4 mm 35MPa
Casing Bowl Make:	ABB Vetco

2nd Intermediate Hole:

Casing Size:	177.8 mm
Casing Weight:	38.69 kg/m
Casing Grade:	L-80
Casing Make:	Ipsco
Number of Joints:	210
Thread:	LT&C
Depth Set:	2808 mKB
Cut Height:	Surface
Date Set:	January 26, 2002
Float Shoe Depth:	2808 m

Float Collar Depth:	2793 m
Cut Off Depth:	Surface
Cement Volume:	44 Tonnes
Cement Type:	Thermal 40F
Additives:	0.30% FL-63 + 0.50% CD-31 + 0.10% R-6N + 1.0% Sepiolite
Cement Top:	Calculated 1000 meters
Casing Spool Size:	346 mm x 279.4 mm 35MPa
Casing Bowl Make:	ABB Vetco

Main Hole:

Casing (Liner)Size:	114.3 mm
Casing Weight:	17.26 kg/m
Casing Grade:	L-80
Casing Make:	Ipsco
Number of Joints:	45
Thread:	LT&C
Depth Set:	3368 mKB
Hanger Depth:	2759 m
Date Set:	February 19, 2002
Float Shoe Depth:	3349 m
Float Collar Depth:	3334 m
Cement Volume:	9.35 Tonnes
Cement Type:	Thermal 40F
Additives:	0.40% FL-63 + 0.50% CD-31 + 0.20% R-6N + 1.0% Sepiolite
Cement Top:	2731m
Tubing Spool Size:	279.4 mmx 179.4 mm 35 MPa
Casing Bowl Make:	ABB Vetco

9. Sidetracked Hole: N/A

10. Drilling Fluid:

Conductor Hole: Water

Surface Hole: Gel - Chemical

Properties:	Viscosity:	53 - 80 sec/L
	Weight:	1050 - 1160 kg/m^3
	pH:	8 - 10
	Water loss:	Not controlled or reported
	Solids:	Not reported
	Gels:	2 – 8 / 5 - 19
	Filter Cake:	Not reported
	PV / YP:	Not reported

1st Intermediate Hole:
Invert Oil Mud

Properties:		
	Viscosity:	65 – 70 sec/l
	Weight:	900– 905 kg/m^3
	pH:	N/A
	Water loss:	18 cc
	Solids:	1 - 8
	Gels:	4 – 10 / 5 - 16
	Filter Cake:	2
	PV / YP:	8 – 14 / 2 - 4

2nd Intermediate Hole:
Invert Oil Mud

Properties:		
	Viscosity:	65 – 70 sec/l
	Weight:	905– 970 kg/m^3
	pH:	N/A
	Water loss:	18 cc
	Solids:	1 - 8
	Gels:	4 – 10 / 5 - 16
	Filter Cake:	2
	PV / YP:	8 – 14 / 2 - 4

Main: Gel - Chemical

Properties:		
	Viscosity:	53 - 66 sec/L
	Weight:	1030 – 1120 kg/m^3
	pH:	9.5 – 10.5
	Water loss:	6 – 10 cc
	Solids:	1 - 8
	Gels:	4 – 10 / 5 - 16
	Filter Cake:	8 - 15
	PV / YP:	17 – 6 / 21- 9

11. Fishing Operations: None.

12. Well Kicks and Well Control Operations: N/A

13. Formation Leak Off Tests:

At surface casing shoe:

Depth:	516 m
Fluid Density:	1000 kg/m^3
Applied Pressure:	9012 kPa
Hydrostatic Press:	5083 kPa
Mud Weight Equiv:	2797 kg/m^3
Casing Setting Depth:	511 mKB

The leak-off test was taken to a gradient of 27.8 kPa/m without breaking down the formation.

1st Intermediate Casing Shoe:

Depth:	1028 m
Fluid Density:	905kg/m^3
Applied Pressure:	not reported
Hydrostatic Press:	9173 kPa
Mud Weight Equiv:	-------- kg/m^3
Casing Setting Depth:	1028mKB

The leak-off test was taken. There was no leak-off at the applied pressure.

2nd Intermediate Casing Shoe:

Depth:	2808 m
Fluid Density:	1000 kg/m^3
Applied Pressure:	--------- kPa
Hydrostatic Press:	27686 kPa
Mud Weight Equiv:	--------- kg/m^3
Casing Setting Depth:	2808 m

A leak-off test was not taken.

14. Time Distribution.

	Hours	Activity
01/12/16	12.0	Move in, rig up
01/12/17	24.0	Move in, rig up
01/12/18	24.0	Move in, rig up
01/12/19	24.0	Move in, rig up
01/12/20	24.0	Move in, rig up
02/01/21	24.0	Move in, rig up
01/12/22	24	Move in, rig up
01/12/23	8.00	Move in, rig up
	1.00	Survey
	11.00	Drill
	4.00	Trip
01/12/24	0.50	Rig service
	12.5	Drill
	1.00	Survey
	3.75	Trip
	6.25	Ream
012/12/25	0.25	Rig service
	1.75	Survey
	14.75	Drill
	2.25	Circulate
	5.00	Trip
01/12/26	1.0	Rig Service
	1.0	Survey
	22.0	Drill
01/12/27	0.75	Rig service
	0.50	Survey
	12.75	Drill
	0.50	Circulate

	6.75	Handle tools
	2.75	Trip
01/12/28	0.50	Rig service
	0.25	Survey
	17.25	Drill
	3.00	Circulate
	3.00	Trip
01/12/29	.50	Rig Servive
	1.25	Survey
	11.25	Drill
	0.50	Circulate
	5.50	Trip
	5.00	Ream
01/12/30	.75	Rig Servive
	1.00	Survey
	21.75	Drill
	.5	Circulate
01/12/31	.25	Rig Servive
	.5	Survey
	3.75	Drill
	3.75	Circulate
	13.75	Trip
02/01/01	.25	Rig Service
	7.75	Circulate
	9.75	Run Casing
	6.00	Trip
	.25	Safety Meeting
02/01/02	.25	Rig Service
	8.5	Circulate
	2.25	Cement
	5.25	WOC
	7.75	Nipple Up BOP's

02/01/03	.25	Rig service
	21.0	Nipple Up BOP's
	2.75	WOC
02/01/04	22.75	Nipple up BOP's
	1.25	Handle Tools
02/01/05	.50	Rig service
	1.75	Pressure test BOP's
	9.50	Nipple up BOP's
	3.50	Handle Tools
	6.00	Trip
	2.75	Rig Repair
02/01/06	0.75	Rig service
	.50	Survey
	.75	Pressure test
	16.00	Drill
	1.75	Circulate
	4.25	Clean Tanks
02/01/07	0.75	Rig service
	0.50	Survey
	17.25	Drill
	.75	Circulate
	4.50	Trip
	0.25	Rig Repair
02/01/08	0.75	Rig service
	0.50	Survey
	16.25	Drill
	2.75	Trip
	.25	Safety Meeting
	3.50	Rig Repair
02/01/09	0.75	Rig service
	0..50	Survey
	11.50	Drill

	2.00	Circulate
	8.00	Trip
	1.25	Rig Repair
02/01/10	0.50	Rig service
	1.00	Trip
	2.75	Circulate and condition mud
	.25	Safety Meeting
	2.00	Handle Tools
	1.25	Rig Repair
	8.50	Logging
	7.75	Run Casing
02/01/11	4.25	Cement
	6.00	WOC
	3.00	Pressure Test
	.50	Circulate
	.25	Safety Meeting
	10.00	Nipple Up BOP's
02/01/12	1.50	Rig Service
	1.00	Pressure Test
	11.5	Drill
	10.00	Trip
02/01/13	0.75	Rig service
	1.25	Survey
	22.00	Drill
02/01/14	.25	Rig Service
	1.75	Survey
	21.0	
	.25	BOP Drill
	.75	Rig Repair
02/01/15	.75	Rig Service
	1.50	Survey
	13.50	Drill

	.50	Circulate
	7.75	Trip
02/01/16	1.50	Rig service
	2.25	Survey
	21.75	Drill
	2.50	Trip
02/01/17	2.25	Survey
	21.75	Drill
02/01/18	0.75	Rig service
	1.00	Survey
	22.00	Drill
	.25	Safety Meeting
02/01/19	0.50	Rig service
	1.25	Survey
	22.25	Drill
02/01/20	0.50	Rig service
	.25	Survey
	19.25	Trip
	1.0	Circulate
	3.00	Handle tools
02/01/21	.75	Rig service
	1.50	Survey
	21.75	Drill
02/01/22	0.75	Rig service
	2.75	Survey
	20.25	Drill
	.25	Safety Meeting
02/01/23	0.50	Service Rig
	5.25	Drill
	3.00	Circulate
	10.25	Trip
	3.00	Handle Tools
	.25	BOP Drill
	.25	Safety Meeting

	1.50	Logging
02/01/24	0.50	Rig service
	13.00	Trip
	10.5	Logging
02/01/25	0.50	Rig service
	6.50	Run Casing
	2.00	Circulate
	15.00	Trip
02/01/26	.50	Rig service
	14.50	Run Casing
	3.00	Circulate
	3.50	Cement
	2.50	WOC
02/01/27	24	Nipple Up BOP's
02/01/28	8.00	Pressure Test
	16.00	Handle Tools
02/01/29	0.75	Rig service
	4.00	Drill
	11.75	Handle Tools
	3.25	Circulate & condition mud
	3.00	Rig Repair
	1.25	Pressure Test
02/01/30	1.25	Rig Service
	6.5	Drill
	15.00	Circulate & condition mud
	1.00	Trip
	.25	BOP Drill
02/01/31	0.75	Rig service
	5.00	Circulate & condition mud
	3.00	Pressure Test
	13.50	Trip
	1.75	BOP Drill

02/02/01	0.50	Rig service
	1.50	Circulate & condition mud
	4.75	Handle Tools
	.25	Safety Meeting
	.75	Rig Repair
	6.5	DST
	9.75	Trip
02/02/02	0.50	Rig service
	.25	Survey
	12.75	Drill
	1.00	Circulate & condition mud
	7.50	Trip
	2.00	Handle Tools
02/02/03	.75	Rig Service
	.75	Survey
	22.50	Drill
02/02/04	.75	Rig Service
	12.25	Trip
	4.75	Drill
	6.25	Circulate & condition mud
02/02/05	.75	Service Rig
	0.75	Survey
	22.5	Drill
02/02/06	0.50	Rig Service
	9.75	Drill
	4.00	Circulate
	2.25	Handle Tools
	7.50	Trip
02/02/07	0.50	Rig Service
	3.00	Handle Tools
	.25	Safety Meeting
	20.25	Logging

02/02/08	0.75	Rig Service
	.50	Circulate & condition mud
	.75	Safety Meeting
	.50	Handle Tools
	8.25	Logging
	4.50	Run Casing
	8.75	Trip
02/02/09	0.25	Rig service
	7.00	Circulate & condition mud
	.50	Safety Meeting
	12.50	Handle Tools
	1.00	Trip
	2.75	Cement
02/02/10	9.50	Handle Tools
	14.50	Nipple Down BOP's
02/02/11	12	Tear Out Rig

Rig Released February 10, 2002 @ 12:00 hours.

Time Break Down

Activity	Hours
Move in, rig up	164.00
Tear out, move out	36.00
Drilling:	453.75
Surveying:	27.75
Circulate, cond.mud, clean tanks	91.75
Running & cementing casing:	55.75
Wait on cement:	16.5
Rig Service:	26.75
Rig Repair:	13.5
Tripping:	217.00
Reaming:	11.5
Nipple up, PT BOP's, Leak-off	113.75
DST's	6.5
Logging	49.00
Handle tools	72.25
Safety meetings	3.50
BOP drills & Flow Checks:	2.50

15. Deviation Survey: See Geological Report section pages 23 to 25.

16. Abandonment Plugs: N/A

17. Composite Well Record: See Geological Report in the Attachment section.

D: GEOLOGY

Geological Summary

Tops: See page 3 of the Geological Report in the Attachment Section.

Sample Descriptions: See pages 11 to 22of the Geological Report in the Attachment Section.

Total Depth: 3350 mKB

Coring Record: No coring done.

GAS DETECTION REPORT

A gas detector was utilized from the drill out of the conductor pipe to total depth. The gas detector readings are included on the composite geological log at the end of the Geological Report in the Appendix Section.

DRILL STEM TESTS:

DST#1: Slave Point, 2868 – 2885m Missrun

WELL EVALUATION

The following logs were run: (refer to page 10 of the Geological Wellsite Report)

1st Intermediate Hole:

High Definition Induction Log:	511 – 1022 mKB
Compensated Z-Densilog / Compensated Neutron Log:	511 – 1024 mKB
Multipole Array Accoustilog:	511 – 1010mKB
Cement Volume Log:	

2nd Intermediate Hole:

High Definition Induction Log:	1027 – 2810 mKB
Compensated Z-Densilog / Compensated Neutron Log:	1027 – 2790 mKB
Multipole Array Accoustilog:	1027 – 2798mKB
Cement Volume Log:	

Main Hole:

High Definition Induction Log:	2809 – 3343 mKB
Compensated Z-Densilog / Compensated Neutron Log:	2809 – 3352 mKB
Multipole Array Accoustilog:	2809 – 3331 mKB
Minilog	2809 – 3352 mKB
Simultaneous Acoustic Resistivity Log	2809 – 3351 mKB
Cement Volume Log:	

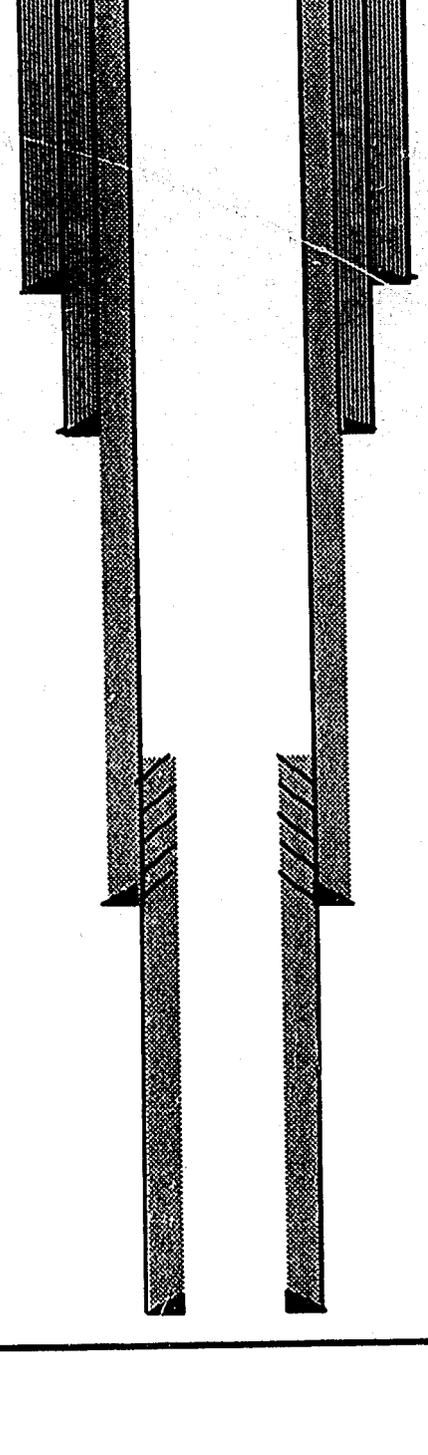
E. ENVIRONMENTAL CONSIDERATIONS

There were no outstanding environmental considerations on this well. The mud system used on the hole was disposed of by hauling to a approved disposal site near Ft. Nelson, British Columbia. In February, 2001 the site was recontoured and there are no plans for any more work until this well is to be abandoned and reclaimed.

PARAMOUNT ANADARKO BOVIE J-76

As Drilled (February 10, 2002)

Actual Log TOPS	
PRIMARY *	
Ft. St. John Group	11
Garbutt	473
Chinkeh	483
Upper Fiett	523
Shunda	940
Pekisko	1091
BANFF	1125
EXSHAW	1627
KOTCHO	1666
TETCHO	2047
KAKISA	2150
FT. SIMPSON	2175
MUSKWA	2777
SLAVE PT **	3809
WATT MTN.	2951
SULFUR PT.**	2940
Muskeg	2984
NAHANNI *	3002
Manetoe*	3002
HEADLESS	3085
LANDRY	3095
ARNICA	3153
Bear Rock	3220
Total Depth	3353



DEPTH	HOLE SIZES	CASING SIZES
		Surface Casing: 339 mm, 81.1kg/m, K55 Cement: 61 tonnes Class "G" 0:1:0
511	444.5	
		1st Intermediate : 244.5 mm, 53.6 kg/m
1028	311	J-55 LT&C Cement: 42 Tonnes O:1:O "G" plus add.
2731		Top of Liner
		2nd Intermediate : 177.8, 38.69 kg/m L80
2808	222	Cement: 44 Tonnes Thermal 40F
		Liner: 114.3, 17.26 kg/m L80 Cement: 9.35 Tonnes Thermal 40F
3353	152	

Paramount Anadarko Bovie J-76

Depth Meters	Inc Degree	Azimuth Degree	TVD Meters	North Meters	East Meters
0	0	0	0	0	0
46.9	0.02	242.5	46.9	0	-0.01
69.6	0.3	250	69.6	-0.03	-0.07
97.3	0.2	260	97.3	-0.06	-0.18
134.4	0.3	246.2	134.4	-0.11	-0.34
162.8	0.7	239.9	162.8	-0.23	-0.55
190.9	0.7	236.2	190.9	-0.41	-0.84
219.3	0.9	242.7	219.29	-0.61	-1.19
266	1	246.3	265.99	-0.94	-1.89
295.1	1	247.7	295.08	-1.14	-2.35
323.6	1	259.8	323.58	-1.28	-2.83
351.5	1	260.6	351.47	-1.36	-3.31
380.7	1.2	266.7	380.67	-1.42	-3.86
399.4	1.3	253.5	399.36	-1.49	-4.26
427.7	0.8	243.5	427.66	-1.67	-4.75
455.9	0.8	230.9	455.86	-1.88	-5.08
484	0.8	236.7	483.95	-2.11	-5.39
521.6	0.8	246.1	521.55	-2.36	-5.85
549.6	0.7	252.9	549.55	-2.49	-6.19
578.1	0.5	260.3	578.05	-2.56	-6.48
606.2	0.4	263.8	606.15	-2.6	-6.7
652.5	0.4	236.8	652.44	-2.7	-7
699.9	0.2	230.8	699.84	-2.84	-7.2
746.9	0.4	217	746.84	-3.03	-7.36
785.4	0.3	205.1	785.43	-3.23	-7.49
832.2	0.4	247.7	832.14	-3.4	-7.69
879.7	0.5	244.6	879.64	-3.55	-8.03
925.9	0.3	254	925.84	-3.67	-8.33
962.9	0.5	247.7	962.84	-3.76	-8.57
1009	0.7	239.7	1008.94	-3.98	-9
1037.3	0.5	221	1037.23	-4.16	-9.23
1075.4	0.5	238.6	1075.33	-4.37	-9.48
1113	0.8	252.5	1112.93	-4.53	-9.87
1140.8	0.1	279.8	1140.73	-4.59	-10.08
1188.1	1	295.3	1188.03	-4.4	-10.49
1216.9	0.4	238.7	1216.82	-4.35	-10.81
1246.1	0.4	146.4	1246.02	-4.49	-10.84
1275.1	0.6	164.7	1275.02	-4.72	-10.74
1312.4	0.6	203.3	1312.32	-5.09	-10.77
1340.4	0.9	226.4	1340.32	-5.37	-10.99
1349.7	1.2	229.2	1349.62	-5.49	-11.11
1368.5	1.8	206.6	1368.41	-5.88	-11.39
1377.7	2.1	219.8	1377.6	-6.14	-11.57
1387.4	2.3	238.2	1387.3	-6.38	-11.84
1406.3	1.1	234	1406.19	-6.68	-12.31
1415.5	1	149	-6.8	-12.34	58.1
1434.5	3	106	1434.38	-7.08	-11.78
1443.7	3.2	100.6	1443.56	-7.2	-11.3

1453.4	2.9	95	1453.25	-7.27	-10.79
1463	2.7	92.6	1462.84	-7.3	-10.32
1472.31	2.7	91.9	1472.14	-7.32	-9.88
1491.2	2.5	90.5	1491.01	-7.33	-9.02
1519.8	2.2	102.8	1519.58	-7.46	-7.86
1529.1	2.2	101.4	1528.88	-7.54	-7.52
1547.6	2.1	95.2	1547.36	-7.64	-6.83
1576.1	2.2	84.4	1575.84	-7.63	-5.77
1604.3	2	69.6	1604.03	-7.41	-4.77
1623.1	2	65.6	1622.81	-7.16	-4.16
1641.8	2	67.6	1641.5	-6.9	-3.56
1670.3	2.1	61	1669.98	-6.46	-2.64
1698.1	2	54.7	1697.77	-5.93	-1.8
1726.2	1.6	63.3	1725.85	-5.47	-1.05
1754.3	1.9	52.4	1753.94	-5.01	-0.33
1782.5	1.9	56.2	1782.12	-4.46	0.43
1810.6	1.7	72	1810.21	-4.07	1.21
1829	1.7	73.6	1828.6	-3.91	1.73
1856.8	2.2	67.3	1856.39	-3.59	2.62
1866.5	2.7	61.8	1866.08	-3.41	2.99
1875.9	3.5	56.4	1875.46	-3.15	3.43
1885	3.6	50.2	1884.55	-2.81	3.88
1913	1.7	343.8	1912.52	-1.85	4.44
1922.7	1.6	347.3	1922.22	-1.58	4.37
1941.2	1.5	2.2	1940.71	-1.09	4.32
1959.6	1.4	5.4	1959.1	-0.62	4.35
1987.8	1.5	4.3	1987.29	0.09	4.41
2007.1	1.5	7.4	2006.59	0.59	4.46
2026.2	1.4	9.9	2025.68	1.07	4.53
2045.5	1.3	10.6	2044.98	1.52	4.61
2073.2	1.2	27.3	2072.67	2.08	4.81
2110.7	1	54.4	2110.16	2.62	5.25
2138.9	1	54.2	2138.36	2.91	5.65
2167.4	1.2	64	2166.85	3.19	6.12
2196	0.5	115	2195.45	3.27	6.5
2224	0.7	104.6	2223.45	3.17	6.78
2251.6	0.8	111.9	2251.05	3.06	7.12
2279.8	0.5	111.9	2279.25	2.94	7.42
2308.1	0.6	100.6	2307.54	2.86	7.68
2336.3	1.1	101.1	2335.74	2.78	8.09
2364.6	1.5	64.9	2364.03	2.89	8.69
2374.1	1.7	67.3	2373.53	3	8.93
2383	1.3	74.3	2382.43	3.08	9.15
2411.6	0.9	239.3	2411.03	3.05	9.27
2430.5	0.6	232.8	2429.92	2.91	9.07
2458.3	0.7	216.2	2457.72	2.69	8.85
2486.4	1.1	210.5	2485.82	2.32	8.61
2505.5	1.2	227.6	2504.91	2.02	8.37
2524	1.3	232.3	2423.41	1.76	8.06
2552	2.1	244.8	2551.4	1.35	7.35
2580.5	2.7	243.5	2579.87	0.83	6.27
2599.6	3	235.9	2598.95	0.35	5.46

2609.1	2.8	242.5	2608.44	0.1	5.04
2618.8	2.2	242.8	2618.13	-0.09	4.67
2638.3	2.1	232.5	2637.61	-0.48	4.05
2648	2.4	228.9	2647.31	-0.72	3.76
2657.8	2.3	230.4	2657.1	-0.98	3.45
2676.2	1.9	196.9	2675.49	-1.51	3.08
2702	1.7	203.2	2701.27	-2.27	2.8
2790	1.5	201.1	2789.24	-4.54	1.88
2816.2	1.4	202.5	2815.43	-5.16	1.62
2854.6	1.4	198.8	2853.82	-6.04	1.3
2868	1.6	203.3	2867.21	-6.36	1.17
2883.1	1.1	210.7	2882.31	-6.68	1.01
2940.7	0.8	202.7	2939.9	-7.53	0.58
2969.4	0.5	211.7	2968.6	-7.82	0.43
2998.4	0.5	350	2997.6	-7.8	0.35
3055.9	0.3	356	3055.1	-7.41	0.29
3085.1	0.1	108.8	3084.3	-7.34	0.31
3113.4	0.4	101.1	3112.6	-7.37	0.43
3142.3	0.7	86.2	3141.5	-7.37	0.71
3169.9	1.2	94.2	3169.09	-7.38	1.16
3189.7	0.8	105.9	3188.89	-7.44	1.5
3218.6	1	113.7	3217.79	-7.59	1.93
3255.7	0.8	94.7	3254.88	-7.74	2.48
3333	0.7	65.1	3332.18	-7.59	3.45
*3350	0.7	65.1	3349.17	-7.5	3.64

*at bit

GEOLOGICAL WELLSITE REPORT

GEOLOGICAL WELLSITE REPORT

ON

N.E.B. COPY

PARAMOUNT ANADARKO BOVIE J-76

60° 20' 122° 45'
NWT

Prepared for

PARAMOUNT RESOURCES LTD.

by

D.F. TAYLOR CONSULTING LTD.
4316 Grovehill Road S.W.
Calgary, Alberta T3E 4E6
Phone: 249-3560

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SUMMARY OF PERTINENT DATA

OPERATOR:	PARAMOUNT RESOURCES LTD.
WELL NAME:	PARAMOUNT ANADARKO BOVIE J-76
LOCATION:	Unit: J, Section: 76, North West Territories
CO-ORDINATES:	60 degrees 20 minutes North 122 degrees 45 minutes West
CLASSIFICATION:	Exploratory (new pool wildcat)
WELL LICENCE #:	1931
UWI:	300-J-76-6020-12245-00
ELEVATIONS:	Ground Level: 412.0m Kelly Bushing: 417.3m
TOTAL DEPTH:	Driller: 3350m Logger: 3353.5m
GEOLOGIST:	Dan Taylor
DRILLING SUPERVISOR:	Allan Ironside / Dave Wilson
MUD LOGGING:	Jim Loader, Continental Labs
DIRECTIONAL SERVICE:	Dene Directional Services.
CONTRACTOR:	Shehtah Drilling Limited Rig #4E
DRILLING FLUID:	Invert to 2810m Gel Chem from 2810 to FTD.
SAMPLES:	Paramount: 05m intervals from Surface to FTD. NEB: same.
CORES:	Nil
DRILL STEM TESTS:	DST # 1: From: 2868m to 2885m Formation: Slave Point
LOGS:	Run by Baker Atlas
SPUD DATE:	0800 hr. December 22, 2001
FINISHED DRILLING:	1800 hr. February 05, 2002
STATUS:	CASED POTENTIAL GAS WELL

FORMATION TOPS

KB: 417.3m

FORMATION	PROGNOSIS MD.	DRILLED MD	LOG MD.	LOG SS.
Fort Saint John Group	00	11	11	406.3
Garbett Radioactive	---	---	473	-55.7
Bull Head	---	---	475	-57.7
Chinkeh	---	---	483	-65.7
Upper Flett	185	281	523	-105.7
Lower Flett	220	374	---	---
Shunda	1016	940	940	-522.7
Pekisko	1105	1091	1091	-673.7
Banff	1139	1124	1125	-707.7
Exshaw	1687	1580	1627	-1209.7
Kotcho	1706	1666.6	1666.5	-1249.2
Tetcho	2071	2045	2047	-1629.7
Kakisa	2118	2068	2150	-1732.7
Fort Simpson	2142	2092	2174	-1756.7
Muskwa	2789	2774	2777	-2359.7
Slave Point**	2799	2807	2809	-2392
Watt Mountain	2952	----	2936	-2519
Sulphur Point**	2954	2971	2940	-2523
Muskeg Equivalent	2968	2984	2984.5	-2567
Upper Keg River Reef**	2991	Absent	Absent	----
Nahanni(Lower Keg River)*	3030	3000.5	3002	-2585
Manetoe*	3030	3000.5	3002	-2585
Headless**	3101	3082	3085.5	-2668
Landry**	3138	3093	3095	-2678
Arnica	3183	3150	3153.5	-2736
Bear Rock	3249	3217	3220	-2802
TOTAL DEPTH	3299	3350	3353.5	-2936

* Primary Zone of Interest
** Secondary Zones of Interest

SUMMARY EVALUATION ZONES OF INTEREST

NAHANNI / MANETOE (Primary):

The top of the Nahanni / Manetoe was penetrated at 3000.5m MD Driller, 3002mMD, -2595m SS. Logger. A thickness of 83m is present. The upper section (3000.5 to 3065m Driller), consists of Dolomite predominantly Packstone / Wackestone with minor Mudstone noted, grains are predominantly re-crystallized indistinct, some fine to medium grain present, predominantly fine to medium crystalline with white translucent coarse sparry Dolomite common. Interval 3000.5m to 3035m Driller, showed predominantly poor porosity (estimated <3% to 3% effective), in samples. Porosity consists rhombic lined vugs or fracture, common anhedral to euhedral Calcite and Quartz lining and in filling porosity. With poor porosity and low background gas readings, interval 3000.5 to 3035m appears to have no reservoir potential.

Interval 3035m to 3055m Driller, consists of Dolomite as above, with porosity estimated at up to 6% effective. Three significant gas peaks were noted in this interval of up 800U / 100U background, indicating some hydrocarbon gas present. **With fair porosity and noted gas peaks, this interval appears to have, with stimulation, potential as a gas bearing zone.**

Interval 3055m to 3065m Driller, consists of Dolomite as above with porosity estimated of up to 6% effective as above, however low background readings in this interval suggest no reservoir potential.

Interval 3065m to 3083m Driller, consists of inter bedded Limestone, (dominant), and Dolomite Mudstones and Wackestones. Poor porosity and low backround gas readings were recorded in this interval and appears to have no reservoir potential.

SLAVE POINT (Secondary):

The top of the Slave Point was penetrated at 2809m MD, -2391.7m SS. (Log). The upper 61m of the Slave Point consists of inter bedded lime Mudstone, Wackestone & Packstones. Less than 3% effective porosity was noted coming from drusy Calcite lined fracture or vuggy porosity. With little porosity and no siginificant gas peaks present this section has **no reservoir potential.**

Slave Point porosity was penetrated at 2870.5m MD. A good drilling break was encountered from 2870.5m to 2875m. Upon drilling the porosity the well flowed and a decision was made to drill another 10m and run DST #1 from 2868m to 2885m. Note test results page 6. Some sample and gas readings were lost as well flowed through degasser. A gas peak of 1806U was recorded upon circulation over shaker. Samples consisted of what appears to be a re-crystallized dolomitic Packstone / Grainstone with grain remnants predominantly indistinct, some fine to medium grains were noted. The rock is predominantly coarse sparry with common rhombic lined vuggy porosity, sbhedral to euhedral Quartz lining and in filling porosity is also common. Porosity in samples was estimated at up to 9% effective. A three metre bed of tight Limestone was present toward the bottom of the test interval.

The Lower Slave Point (2885-2936m) consists of Dolomite Packstone / Grainstone as above with streaks of porosity estimated up to 9%. Intermittent gas peaks up to 760U (back ground 150U) were recorded in this interval. Note Mud weight was increased from 1020 to 1120 kg/m3 upon well flowing.

Although gas flow rates were low on DST #1, gas peaks and porosity noted in samples indicate, with stimulation, the Lower Slave Point has potential as a gas bearing zone.

>

(SUMMARY EVALUATION ZONES OF INTEREST CONTINUED)

SULPHUR POINT (Secondary):

The top of the Sulphur Point was penetrated at 2936m MD Driller, 2940m MD, -2523m SS. Logger. A thickness of 45m is present. From 2936m to 2971m Driller, the formation consists of Limestone Packstone / Wackestone with common Dolomite stringers. Grain remnants are predominantly re-crystallized indistinct with some fine grain present. Rock is crypto to micro crystalline non to sub sucrosic, slightly argillaceous in parts, poor (<3%), inter crystalline and minor drusy Calcite lined porosity was noted. Dolomite stringers showed some poor rhombic and drusy Quartz lined open vug or fracture porosity.

Interval 2971 to 2984m consists of Dolomite Packstone / Wackestone. The rock has some fine to medium grains present and predominantly fine to medium crystalline non to sub sucrosic, white translucent coarse sparry Dolomite common. Porosity noted is poor with occasional medium to coarse rhombic lined vug or fracture, occasional anhedral to euhedral Quartz and Calcite lining and in filling porosity. With poor porosity and low background readings recorded in this interval it is felt this interval has no reservoir potential.

UPPER KEG RIVER REEF (Secondary):

Not present in logs.

HEADLESS (Secondary):

The top of the Headless was penetrated at 3082m MD Driller, 3085.5m MD, -2668m SS. Logger. A thickness of 10m is present. The formation consists of inter bedded Dolomite (dominant), and Limestone Mudstone and Wackestones. Dolomite; white translucent to light grey, predominantly coarse sparry, fine to medium crystalline in part, minor micro to very fine crystalline, occasional disseminated pyrite, poor porosity, occasional rhombic lined vuggy or fracture, common subhedral to euhedral Calcite and Quartz lining and in filling porosity. Limestone; buff to brown grey, lithographic to crypto crystalline, occasional sparry Calcite cement, tight to trace drusy Calcite lined open fracture, no live shows. Shale stringers; light to medium grey green, soft sub waxy, disseminated pyrite common, sub fissile-blocky. With poor porosity porosity and low background readings recorded in this interval it is felt this interval has no reservoir potential.

LANDRY (Secondary):

The top of the Landry was penetrated at 3093m MD Driller, 3095m MD, -2678m SS. Logger. A thickness of 59m is present. The formation consists of Dolomite Mudstones to Packstones with some Grainstone noted at the top of the interval. Grain remnant are predominantly re-crystallized indistinct. The rock is predomiantly white to light grey translucent coarse sparry, abundant fine to medium crystalline, minor crypto crystalline. Porosity is estimated at from 3 to >6%, with loose coarse dolomite rhombs common, common anhedral to euhedral Calcite and Quartz lining and in filling vuggy and or fracture porosity.

Two significant gas peaks are present from **3105m to 3115m Driller, one peak to 2000U / 40U backround.** Porosity in this zone is estimated at greater than 3%. Note mud weight 1135 kg/m3. **With fair porosity and gas present in this interval it suggests hydrocarbon gas potential.**

DRILL STEM TESTS

DST #: 1 From: 2868m To: 2885m Formation: Slave Point

Test Type: Conventional BH Run by: Baker Oil Tools Date: January 31, 2002

PRESSURES		TIMES	REMARKS
IH:	31628 kpa		
IPF:	925	15	WAB to SAB in 2.5min. Increasingly strongly thru. GTS in 10 min.
FPF:	652		
ISIP:	28824	60	
IF:	1472	40	SAB in 1 min. GTS immediately, Steady thru, Lost packer seat 40 min into flow.
FF:	1267		
FH:	31628		

Recovery: Reverse circulated out of string, most of recovery appeared to be drilling mud. 5 samples caught white reversing out.

CHRONOLOGICAL HISTORY

DATE	DEPTH	PROGRESS	ACTIVITY
Dec. 21	0	0	Move Rig, Rig to Spud.
22	0	0	Rig to Spud.
23	33	33	Rig to Spud, Spud @ 0800 12/22/01, Drill, Trip for Dirc. Tools.
24	143	110	RIH, Ream, Drill.
25	265	122	Drill 311mm hole, Survey, Trip for Bit, RIH, Drill.
26	436	171	Drill & Survey.
27	502	66	Drill to 502, POOH, PU 444mm Bit, RIH, Ream.
28	502	0	Ream, Trip for Bit, ream.
29	502	0	Ream, Trip for Bit, ream.
30	503	1	Ream & Drill.
31	511	8	Drill, Wiper Trip, Circ & Cond.
Jan. 01/02	511	0	Circ & Cond. Rig to Run & Cmt Surf. Csg.
02	511	0	Attempt Cmt Csg, Repair Pumper, Circ out Cmt, clean up, WO Vacuum Truck, Cmt Surf. Csg.
03	511	0	Dig Cmt from Cellar, Weld Bowl, Press. Test.
04	511	0	Press. Test, Rig Service.
05	511	0	Rig Service, PU Direc. Tools, Press. Test, Rig Repair.
06	633	122	Displace to Invert, Drill 311mm hole, Survey.
07	770	137	Drill & Survey, Rig Repair, Trip for Bit.
08	898	128	RIH, Wash to Btm, Rig Repair, Drill & Survey.
09	1027	129	Drill & Survey, Circ, Wiper Trip, POOH to Log.
10	1027	0	POOH to Log, Rig to & Run Logs, Run Int.Csg.
11	1027	0	Circ Csg, Cmt Csg, WOC, Cut Csg, Nipple up, Press. Test.
12	1090	63	PU Direc. Tools, RIH, Drill & Survey 222mm hole.
13	1294	204	Drill & Survey.
14	1490	196	Rig Service, Drill & Survey.
15	1622	132	Drill & Survey, Trip for Bit, RIH.

(Chronological History Continued)

DATE	DEPTH	PROGRESS	ACTIVITY
Jan. 16	1800	178	RIH, Rig Service, Drill & Survey.
17	2025	225	Drill & Survey.
18	2190	165	Drill & Survey.
19	2373	183	Drill & Survey.
20	2400	27	Drill & Survey, Trip for Bit & Motor, RIH.
21	2579	179	RIH, Drill & Survey.
22	2758	179	Drill & Survey.
23	2808	50	Drill & Survey to TD 2nd Int.Csg, POOH to Log, Log Hole.
24	2808	0	RIH, POOH Sideways, Lay down DP.
25	2808	0	Lay down DP, Run Int. Csg. Rig to Cmt Csg.
26	2808	0	Cmt Csg, WOC, Nipple up. Press Test.
27	2810	0	(Depth Changed to Csg. Strap.) Press. Test, Change Kelly, PU 89mm DP, Clean Tanks.
28	2810	0	PU 89mm DP, Rig up to Drill out Cmt.
29	2875	65	Drill out Cmt, Press. Test, Drill & Survey, Rig Repair. Drill, Well flowing, Shut In well, Circ out gas, Build Mud Wt.
30	2885	10	Build Mud Wt. Drill 10m Circ. WO orders, POOH for DST #1, PU DST Tools.
31	2885	0	RIH w/ Test Tools, Run DST #1, packer failure, POOH, Rig Repair.
Feb. 01	2927	42	POOH DST # 1, Lay down Tools, PU Direc Tools, RIH, Drill & Surv.
02	3070	143	Drill & Survey.
03	3150	80	Drill & Survey, Trip for New Bit.
04	3242	92	RIH, Drill & Survey.
05	3350	108	Drill & Survey to TD @ 1800 hr. Circ, Wiper Trip, Circ.
06	3350	0	Circ. POOH to Log, Attempt Logging, Service Tools, Log.
07	3350	0	Log, RIH with Liner.

BIT RECORD

Main Hole

NO.	SIZE	TYPE	FROM	TO	METRES	HOURS	COND.
1	152.4	STX30	2810	2885	75	9.0	1-1-I
2	152.4	XR30T	2885	3150	265	37.75	5-5-6mm
3	152.4	SL53A	3150	3350	200	34.0	8-5-2mm

CASING SUMMARY

Surface Casing: 339mm. 81.1 kg/m. K55, Landed @ 511.0m, January 01/02

1st Intermediate Casing: 244.5mm. 53.6 kg/m. J-55 LT&C, Landed @ 1027m. January 10/02

2nd Intermediate Casing: 177.8mm. 38.7 kg/m L80, Landed @ 2809.8m, Driller. January 25/02

Production Liner: 114.3mm. 17.3 kg/m L80, Landed @ 3350m. Driller. February 07/02

LOGGING SUMMARY

Run #1:

Run by: Baker Atlas. January 09/02
Mud Type: Invert
Hole Size: 311mm.
Logs Run:
- High Definition Induction Log, Gamma Ray, Caliper
  Bottom Log Interval: 1022.3m. Top Log Interval: 511.5m.
- Compensated Densilog, Compensated Neutron, Gamma Ray, XY Cal.
  Bottom Log Interval: 1024.1m. Top Log Interval: 511.5m.
- Multipole Array Acoustilog, Gamma Ray, Caliper.
  Bottom Log Interval: 1009.8m. Top Log Interval: 511.5m
- Cement Volume Log.

Max. Temp: 44.3° C.

Run #2:

Run by: Baker Atlas. January 23/02
Mud Type: Invert
Hole Size: 222mm.
Logs Run:
- High Definition Induction Log, Gamma Ray, Caliper
  Bottom Log Interval: 2809.8m. Top Log Interval: 1027.2m.
- Compensated Densilog, Compensated Neutron, Gamma Ray, XY Cal.
  Bottom Log Interval: 2789.8m. Top Log Interval: 1027.2m.
- Multipole Array Acoustilog, Gamma Ray, Caliper.
  Bottom Log Interval: 2798.4m. Top Log Interval: 1027.2m.
- Cement Volume Log.

Max. Temp: 137.4° C.

Run #3:

Run by: Baker Atlas. February 06-07/02
Mud Type: Gel Chem
Hole Size: 152.4mm.
Logs Run:
- High Definition Induction Log, Gamma Ray, Caliper
  Bottom Log Interval: 3343.6m. Top Log Interval: 2808.8m
- Compensated Densilog, Compensated Neutron, Gamma Ray, X Caliper.
  Bottom Log Interval: 3352.5m. Top Log Interval: 2808.8m
- Multipole Array Acoustilog, Gamma Ray, Caliper.
  Bottom Log Interval: 3331.1m. Top Log Interval: 2808.5m
- Minilog, Gamma Ray Log, Caliper
  Bottom Log Interval: 3352.5m. Top Log Interval: 2808.5m
- Simulatneous Acoustic Resistivity Log
  Bottom Log Interval: 3351.1m. Top Log Interval: 2808.5

Cement Volume Log.

Max. Temp: 154° C.

DETAILED SAMPLE DESCRIPTIONS

Main Hole.

DEPTH	%	DESCRIPTION
2450-2455	100	SHALE: Medium to medium dark grey, micro-mica, very slight calcareous in part, occasional buff Claystone, sub fissile to blocky.
2455-2460	70	SHALE: as above.
	30	CLAYSTONE: buff, soft friable, micro-mica, sub fissile-blocky.
2460-2465	60	SHALE: as above.
	40	CLAYSTONE: as above.
2465-2475	70	SHALE: as above.
	30	CLAYSTONE: as above.
2475-2480	100	SHALE: medium to medium dark grey, micro-mica, non to very slightly calcareous, minor clay interbeds, sub fissile-blocky.
2480-2490	90	SHALE: as above.
	10	CLAYSTONE: buff to micro-mica, soft friable, blocky.
2490-2505	80	SHALE: as above.
	20	CLAYSTONE: as above.
2505-2515	70	SHALE: medium to medium dark grey, as above.
	30	CLAYSTONE: as above.
2515-2525	90	SHALE: as above with rare trace Limestone stringer.
	10	CLAYSTONE: as above.
2525-2530	100	SHALE: medium to medium dark grey, micro-mica, common soft clayey, sub fissile to blocky, trace Limestone stringer, buff to tan Wackestone, micro crystalline argillaceous in part, no visible porosity.
2530-2535	100	SHALE: as above with no Limstone.
2535-2545	90	SHALE: as above.
	10	CLAYSTONE: buff, soft friable, micro-mica, sub fissile to blocky.
2545-2565		As above, with rare trace Limestone stringer as above.
2565-2575	80	SHALE: medium to medium dark grey, micro-mica, sub fissile to blocky.
	20	CLAYSTONE: as above.
2575-2585	70	SHALE: as above, with no Limestone.
	30	CLAYSTONE: as above.
2585-2590	80	SHALE: as above with rare trace white Calcite vein.
	20	CLAYSTONE: as above.
2590-2595		As above, trace Calcite vein.

DEPTH	%	DESCRIPTION
2595-2605	60	SHALE: as above, no Calcite vein.
	40	CLAYSTONE: as above.
2605-2610	90	SHALE: as above.
	10	CLAYSTONE: as above.
2610-2615	70	SHALE: medium to medium dark grey, micro-mica, sub fissile to blocky, trace Limestone stringer, buff to tan, Mudstone/Wackestone, crypto to micro crystalline, no visible porosity.
	30	CLAYSTONE: as above.
2615-2620		As above, no Limestone.
2620-2625	70	SHALE: medium to medium dark grey, micro-mica, sub fissile to blocky.
	30	CLAYSTONE: as above.
2625-2635	80	SHALE: as above.
	20	CLAYSTONE: buff, soft friable, micro-mica, sub fissile to blocky.
2635-2640	90	SHALE: as above.
	10	CLAYSTONE: as above.
2640-2645		As above, no Limestone.
2645-2650	80	SHALE: medium to medium dark grey, micro-mica, sub fissile to blocky, occasional platey.
	20	CLAYSTONE: as above.
2650-2660	70	SHALE: as above.
	30	CLAYSTONE: as above.
2660-2665	90	SHALE: as above.
	10	CLAYSTONE: as above.
2665-2670	60	SHALE: as above.
	40	CLAYSTONE: as above.
2670-2675	50	SHALE: as above.
	50	CLAYSTONE: buff, soft friable, micro-mica, sub fissile to blocky.
2675-2680	90	SHALE: medium to medium dark grey, micro-mica, sub fissile to blocky, minor platey, rare trace Limestone stringer.
	10	CLAYSTONE: as above.
2680-2690		As above, Shale becoming platey in part.
2690-2700	100	SHALE: medium to medium dark grey, micro-mica, common clayey, trace pyrite nodule, predominantly sub fissile to blocky, minor platey.
2700-2705		As above, rare Pyrite.
2705-2715		As above, no Pyrite.
2715-2720		As above, rare trace Limestone stringer.
2720-2725		As above, no Limestone.

DEPTH	%	DESCRIPTION
2725-2730		As above, Shale platey in part.
2730-2750	100	SHALE: medium to medium dark grey, micro-mica, predominantly sub fissile to blocky, platey in part.
2750-2770	90	SHALE: as above.
	10	CLAYSTONE: buff, soft friable, micro-mica, sub fissile to blocky.
		MUSKWA TOP: Drilled: 2774m MD. **Logs: 2777m MD. -2360m SS.**
2770-2775	90	SHALE: becoming dark grey in part, as above.
	10	CLAYSTONE: as above.
2775-2780	100	SHALE: dark grey, micro-mica, occasional disseminated pyrite, rare trace white Calcite vein, sub fissile to blocky.
2780-2785	100	SHALE: as above with buff to medium dark grey clayey common.
2785-2790	100	SHALE: medium dark to dark grey, micro-mica, trace Pyrite nodule, rare trace Calcite vein, sub fissile to blocky.
2790-2795		As above, no Calcite vein.
2795-2800	100	SHALE: dark grey, micro-mica, minor clayey, common disseminated Pyrite, occasional nodule, predominantly sub fissile to blocky, occasional platey.
2800-2805	100	SHALE: dark grey to black, micro-mica, common pyrite nodule, disseminated in part, sub fissile to blocky, minor platey.
		SLAVE POINT TOP: Drilled: 2807m MD. **Logs: 2809m MD. -2392m SS.**
2805-2808	60	SHALE: becoming platey, as above.
	40	LIMESTONE: buff to medium grey, Mudstone / Wackestone, grain remnant predominantly indistinct, crypto crystalline, occasional fragment with Calcite cement, argillaceous in part, no visible porosity, no shows.
		TD 2ND INTERMEDIATE CASING POINT.
2808-2810	70	LIMESTONE: mottled light to dark grey and black, Mudstone/Wackestone dominant, Packstone in part, grain remnant predominantly indistinct, very fine to fine in part, crypto to micro crystalline, trace coarse sparry, clean to argillaceous in part, predominantly tight with rare trace drusy Calcite lined open fracture, rare trace slickensides, no shows.
	30	CEMENT.
2810-2815	100	LIMESTONE: as above with Wackestone/Packstone dominant, abundant Mudstone, occasional micro to lower very fine crystalline sub sucrosic with trace inter crystalline porosity, rare trace fracture as above.
2815-2820		As above, rare coarse sparry.
2820-2830	100	LIMESTONE: predominantly dark grey to black Mudstone, abundant light to medium grey Wackestone/Packstone, grain remnant predominantly indistinct, fine grain in part, crypto to micro crystalline, non sucrosic, clean to argillaceous in part, predominantly tight with trace drusy Calcite lined open fracture, rare trace slickensides, no shows.

DEPTH	%	DESCRIPTION
2830-2840		As above, with Wackestone/Packstone dominant, 30% brown grey to black crypto crystalline Mudstone, trace Calcite vein.
2840-2845	100	LIMESTONE: mottled light grey to brown grey and dark grey, black in part, Mudstone/Wackestone dominant, Packstone in part, grain remnant predominantly indistinct, fine grain in part, crypto to micro crystalline, non sucrosic, clean to slight argillaceous in part, predominantly tight with occasional drusy Calcareous lining and in filling fracture or vug, no shows.
2845-2855		As above, 40% medium brown grey crypto crystalline Mudstone.
2855-2860	95	LIMESTONE: 50% light to medium brown grey, Mudstone, crypto dense, tight, 45% mottled light to dark grey Wackestone/Packstone, grain remnant predominantly indistinct, minor fine grain, occasional medium fragment, crypto to micro crystalline, clean with trace disseminated pyrite, predominantly tight with occasional anhedral to euhedral Calcite lining and in filling vuggy porosity, (less than 3%), trace bitumen in filling porosity, no live shows.
	05	SHALE: medium grey, sub fissile to blocky, disseminated pyrite common, slight calcareous in part.
2860-2865	100	LIMESTONE: 60% Mudstone as above. 40% Wackestone/Packstone as above with with occasional micro to lower very fine crystalline sub sucrosic Packstone with poor inter crystalline porosity, no shows, occasional Shale parting, as above.
2865-2870	100	LIMESTONE: as above.
		NOTE: Well flowing, 2870-2875 Poor Samples, Circulating thru degasser.
		TOP SLAVE POINT POROSITY SAMPLE: 2870.5m MD, -2453.2m SS.
2870-2872.5	60	LIMESTONE: as above.
	40	DOLOMITE: white to cream, predominantly medium to coarse sparry, minor crypto crystalline, occasional fine to medium grain Grainstone, clean with occasional disseminated and nodule Pyrite, estimate up to 9% vuggy porosity, common coarse rhombic lined vug, occasional anhedral to euhedral Calcite and Quartz lining and infil vuggy porosity, occasional bitumen in filling porosity, no live shows, NOTE: Gas circulated thru degasser.
2872.5-2875	30	LIMESTONE: predominantly medium brown grey Mudstone, common Wackestone/Packstone, as above.
	70	DOLOMITE: white to cream, translucent in part, estimate up 9% effective porosity, as above.
2875-2877.5	70	LIMESTONE: mottled buff to medium dark brown grey, Wackestone/Packstone, minor Mudstone, grain remnant predominantly indistinct, fine to medium in part, crypto to micro crystalline, sub micro sucrosic up, clean to slight argillaceous in part, occasional disseminated pyrite, tight to trace inter crystalline porosity, no live show.
	30	DOLOMITE: as above with occasional fine to medium grain Packstone/Grainstone, estimate up to 9% effective porosity, as above.
2877.5-2880	80	LIMESTONE: Wackestone/Packstone as above with slight dolomitic in part, common dark grey to black bitumen Shale parting.
	20	DOLOMITE: as above.

DEPTH	%	DESCRIPTION
2880-2882.5	100	DOLOMITE: mottled white to buff and dark grey to black, Packstone/Grainstone, grain remnant predominantly indistinct, abundant fine to medium, predominantly coarse sparry, non to sub sucrosic, minor crypto to micro crystalline, trace disseminated pyrite, estimate greater than 6% effective porosity, common medium to coarse rhombic lined vuggy porosity, common coarse subhedral to euhedral Quartz lined vuggy, trace Calcite, abundant black bitumen in filling and lining porosity, no live shows.
2882.5-2885		As above, abundant bitumen.
2885-2890	100	DOLOMITE: predominantly mottled dark grey to black, white to medium grey in part, Grainstone, predominantly fine to medium grain, common grain remnant indistinct re-crystallized, predominantly coarse sparry, crypto crystalline in part, common sub sucrosic, occasional disseminated pyrite, poor vuggy porosity, estimate up to 3%, occasional coarse rhombic lined vuggy, drusy Calcite lining and in filling porosity common, abundant bitumen in filling primary porosity, no live shows.
2890-2895		As above, with dolomite predominantly dark grey to black with argillaceous bitumen in fill, occasional subhedral to euhedral quartz lining vuggy porosity, no show, as above.
2895-2900	100	DOLOMITE: as above with grain remnant predominantly indistinct re-crystallized, common fine to medium grain, possible up to 6% effective porosity as above, abundant argillaceous bitumen in filling primary porosity.
2900-2905	100	DOLOMITE: mottled dark grey to black dominant, common white translucent, Packstone/Grainstone, grain remnant predominantly indistinct re-crystallized, common fine to medium, predominantly fine to medium crystalline non to sub sucrosic, common coarse sparry, trace pyrite, poor vuggy porosity estimate <3%, occasional rhombic lined vuggy, occasional drusy Calcite lining and in filling primary porosity, no live shows.
2905-2910		All as above.
2910-2915	100	DOLOMITE: Packstone/Grainstone, as above with decrease bitumen in fill, fair porosity, estimate >6%, common coarse rhombic lined vuggy, drusy Calcite lining and in filling porosity common, occasional anhedral to euhedral Quartz lining porosity, no live shows as above.
2915-2920		As above, with trace disseminated pyrite, upt oil 60% dark grey to black argillaceous bitumen in filling primary porosity.
2920-2925	100	DOLOMITE: mottled, predominantly white to medium grey, translucent in part, 40% dark grey to black (bituminous), predominantly Packstone/Grainstone, fine to medium grain with abundant white indistinct re-crystallized grain remnant, predominantly coarse sparry with fine to medium crystalline in part, non to sub sucrosic, minor crypto crystalline, calcareous limy in part, occasional disseminated pyrite, fair vuggy porosity, estimate 3% with streak to 6%, medium to coarse rhombic lined vuggy common, occasional anhedral to subhedral Quartz lining and in filling vugs, minor drusy Calcite, 40% dark grey to black argillaceous bitumen in filling primary porosity, no live shows.
2925-2935		All as above.
2935-2940	40 60	DOLOMITE: as above. LIMESTONE: mottled buff to dark grey brown, Wackestone/Packstone, fine grain, crypto to micro crystalline, non sucrosic, trace Calcite vein, slight bituminous argillaceous in part, no visible porosity, no shows.

DEPTH	%	DESCRIPTION
		TOP SULPHUR POINT: **Drilled: 2936m MD. Logs: 2940m MD. -2523m SS.**
2940-2945	10	DOLOMITE: as above with tight to poor porosity, no shows.
	70	LIMESTONE: mottled medium to dark grey and black, Mudstone/Wackestone, crypto oil micro crystalline, non sucrosic, argillaceous in part, tight, no shows.
	20	SHALE: dark grey to black, bituminous, calcareous limy, well indurated, blocky.
2945-2950		All as above.
2950-2955	90	LIMESTONE: mottled buff to dark brown grey, Packstone, crypto to micro crystalline, non to sub sucrosic, slight argillaceous in part, tight to trace inter crystalline micro porosity, no shows.
	05	DOLOMITE: medium to coarse sparry, trace rhombic lined vuggy porosity, as above.
	05	SHALE: as above.
2955-2960	75	LIMESTONE: as above.
	25	DOLOMITE: white to light grey, translucent in part, Packstone, grain remnant predominantly indistinct re-crystallized, predominantly fine to medium crystalline sub sucrosic to sucrosic, coarse sparry in part, tight to poor porosity, occasional fine to medium rhombic lined vuggy or fracture, trace anhedral Quartz in filling porosity, common bitumen speck in filling primary porosity, no live show.
2960-2965	95	LIMESTONE: mottled buff to dark brown grey, Wackestone/Packstone, fine grain in part, crypto oil micro crystalline, micro sucrosic in part, slight argillaceous in part, trace Calcite vein, tight to trace inter crystalline porosity, no shows.
	05	DOLOMITE: as above.
2965-2970	95	LIMESTONE: as above with tight to poor inter crystalline micro porosity, trace drusy Calcite lined fracture.
	05	DOLOMITE: as above.
2970-2975	100	DOLOMITE: mottled medium to dark grey dominant, common white translucent, Packstone, grain remnant predominantly indistinct re-crystallized, predominantly fine to medium crystalline non to sub sucrosic, coarse sparry in part, porosity vuggy or fracture, estimate predominantly <3% with minor streak to 3%, occasional medium to coarse rhombic lined vugs, occasional anhedral to euhedral Quartz lining and in filling porosity, occasional drusy Calcite, abundant bitumen in filling porosity, no live shows.
2975-2980	100	DOLOMITE: as above with occasional micro to very fine crystalline sub sucrosic, possible streak to >3% porosity, trace Calcite vein.
		TOP MUSKEG EQUIVALENT: **Drilled: 2984m MD. Log: 2984.5m MD, -2567m SS.**
2980-2985	100	DOLOMITE: mottled white to medium grey dominant, translucent in part, common dark grey, Packstone/Grainstone, grain remnant predominantly indistinct re-crystallized, fine to medium in part, predominantly fine to medium crystalline, non to sub sucrosic, common coarse sparry, slight argillaceous in part, poor porosity, estimate up to 3%, minor medium to coarse rhombic lined vuggy, common anhedral to euhedral Quartz lining and in filling vuggy or fracture porosity, trace drusy Calcite, common bitumen in filling primary porosity, no live shows.
2985-2990	20	DOLOMITE: as above.
	80	LIMESTONE: mottled buff to dark brown grey, Wackestone/Packstone dominant, Mudstone in part, crypto to micro crystalline, micro sucrosic in part, dolomitic in part, slight argillaceous in part, tight to trace poor inter crystalline micro porosity, no shows.

DEPTH	%	DESCRIPTION
2990-2995	10	DOLOMITE: as above.
	90	LIMESTONE: as above.
2995-3000		All as above, with trace rhombic lined vuggy porosity.
		TOP NAHANNI / MANETOE: Drilled: 3000.5m MD. **Logs: 3002.0m MD. -2585m SS.**
3000-3005	100	DOLOMITE: 60% mottled grey to dark grey, Wackestone/Packstone, fine to medium grain in part, predominantly fine to medium crystalline, non to s sucrosic, crypto in part, trace disseminated pyrite, slight argillaceous bituminous, occasional bituminous shaley parting, tight to trace rhombic lined vuggy porosity, 40% Dolomite white, translucent in part, appears as Mudstone, prob re-crystallized Packstone, trace grain remnant, predominantly medium to coarse sparry, crypto crystalline in part, poor porosity, estimate up to 3%, occasional rhombic lined vugs or fracture, common anhedral to euhedral Quartz in filling and lining porosity, bitumen speck common.
3005-3010	100	DOLOMITE: 80% medium dark to dark grey, Wackestone/Packstone, 20% white translucent Wackestone, grain remnant predominantly indistinct re-crystallized, predominantly very fine to fine crystalline, micro to very fine and medium in part, common coarse sparry, non sucrosic, trace disseminated pyrite, very slight argillaceous in part, trace bituminous argillaceous parting, tight to poor porosity, <3%, occasional rhombic lined vuggy, occasional anhedral to subhedral Quartz, trace drusy Calcite, no show.
3010-3015	100	DOLOMITE: 70% medium dark to dark grey, Wackestone/Packstone as above, 30% white translucent coarse sparry, increase visible porosity, common anhedral to euhedral Quartz in filling and lining vugs or fracture.
3015-3020		As above, with up to 40% white translucent coarse sparry Dolomite, predominantly poor porosity with probable streak to 6%, minor rhombic lined vuggy, clear to white drusy Calcite lining vugs or fracture common, as above.
3020-3025	20	DOLOMITE: as above.
	80	LIMESTONE: mottled buff to dark grey brown, Mudstone/Packstone, occasional fine to medium grain, predominantly crypto crystalline, micro in part, slight argillaceous to argillaceous in part, predominantly tight with spotty drusy Calcite lined fracture porosity <3%, no shows.
3025-3030	10	LIMESTONE: as above.
	90	DOLOMITE: mottled 30% white, translucent in part, 70% medium to dark grey and black Packstone, predominantly fine to medium crystalline, non to sub sucrosic, micro to very fine crystalline in part, white translucent predominantly coarse sparry, slight argillaceous in part, occasional black bituminous argillaceous parting, tight to poor porosity, possible streak to 3%, occasional fine to medium rhombic lined vuggy or fracture, common anhedral to euhedral Quartz lining and in filling porosity, occasional clear to white drusy Calcite, no live shows.
3030-3035		As above, with Dolomite predominantly fine crystalline, common micro to very fine, porosity as above.
3035-3040	100	DOLOMITE: mottled, 40% white, translucent in part, 60% medium to dark grey, black in part, Packstone, good remnant predominantly re-crystallized indistinct, fine to medium in part, predominantly fine to medium crystalline, minor crypto oil micro and very fine crystalline, white translucent predominantly coarse sparry, slight argillaceous in part, occasional black bituminous argillaceous parting, poor to fine porosity, estimate predominantly <3% with possible streak to 6%, loose dolomite rhombs common, clear to white subhedral to euhedral Calcite common, minor anhedral Quartz, no live shows.

DEPTH	%	DESCRIPTION
3040-3045		As above, common Dolomite rhombs.
3045-3050	100	DOLOMITE: mottled white to medium grey and dark grey, minor black, translucent in part, Wackestone/Packstone, grain remnant predominantly indistinct re-crystallized, fine to medium in part, predominantly fine to medium crystalline, crypto oil micro common, white translucent predominantly coarse sparry, slight argillaceous in part, predominantly tight with streak to 3%, possible streak to 6% porosity, medium to coarse rhombic lined vuggy or fracture common, occasional clear to white subhedral to euhedral Calcite lined porosity, occasional anhedral to euhedral Quartz, no shows, occasional bitumen speck in filling porosity.
3050-3055		As above, with 50% white translucent coarse sparry Dolomite, abundant loose Dolomite rhombs, as above.
3055-3060		As above, occasional disseminated Pyrite.
3060-3065	100	DOLOMITE: 60% white translucent coarse sparry, 40% grey to dark grey Packstone, trace argillaceous, abundant loose Dolomite rhombs, common subhedral to euhedral Calcite, minor Quartz, as above.
3065-3070	30	DOLOMITE: predominantly white translucent coarse sparry, as above.
	70	LIMESTONE: mottled buff to brown grey, Mudstone/Wackestone, common organic debris (spicules), lithographic to crypto crystalline, chalky in part, occasional sparry Calcite cement, tight to trace drusy Calcite lined fracture porosity.
3070-3075	40	DOLOMITE: loose Dolomite rhombs common, common clear to white subhedral to euhedral Calcite, minor Quartz, poor porosity, possible up to 3%, no live shows, occasional bitumen infill.
	60	LIMESTONE: as above.
3075-3080		As above, trace Calcite vein, trace Shale parting.
		TOP HEADLESS: **Drilled: 3082m MD.** **Logs: 3085.5m MD. -2668m SS.**
3080-3085	40	DOLOMITE: white translucent to light grey, Mudstone/Wackestone, grain remnant re-crystallized indistinct, predominantly coarse sparry, fine to medium crystalline in part, minor micro to very fine, non to sub sucrosic, occasional disseminated Pyrite, poor porosity, occasional medium to coarse rhombic lined vuggy or fracture, common subhedral to euhedral Calcareous and Quartz lining and in filling porosity, no live shows, occasional bitumen in fill.
	60	LIMESTONE: Mudstone/Wackestone, as above with disseminated pyrite common, up to 3% Shale stringer, light to medium grey green, soft sub waxy in part, disseminated pyrite common, sub fissile to blocky.
3085-3090	80	DOLOMITE: loose rhombs common, anhedral to euhedral Quartz and Calcite common, as above, 3% Shale stringer, as above.
	20	LIMESTONE: as above.
		TOP LANDRY: **Drilled: 3093m MD.** **Logs: 3095m MD. -2678m SS.**
3090-3095		All as above.

DEPTH	%	DESCRIPTION
3095-3100	90	DOLOMITE: white translucent to medium dark grey, Wackestone to Grainstone, grain remnant commonly re-crystallized indistinct, common fine to medium grain, predominantly fine to medium crystalline non sucrosic, abundant coarse sparry, minor crypto to micro crystalline, common disseminated pyrite, poor porosity, estimate <3%, minor rhombic lined vuggy, occasional anhedral to euhedral Calcite and Quartz lining and in filling porosity, no live shows, occasional bitumen infilling primary porosity, trace Shale stringer.
	10	LIMESTONE: as above.
3100-3105	100	DOLOMITE: 70% white to light grey translucent Mudstone/Wackestone, re-crystallized coarse sparry, 30% Wackestone/Packstone as above with minor disseminated pyrite, increase porosity estimate >3%, loose Dolomite rhombs common, common anhedral to euhedral clear to white Calcite and clear Quartz lining and in filling porosity, common bitumen in fill, trace Shale as above.
3105-3110		All as above.
3110-3115	100	DOLOMITE: 60% medium to dark grey Wackestone/Packstone, 40% white translucent coarse sparry Mudstone/Wackestone as above, abundant loose medium to coarse Dolomtite rhombs, up to 10% anhedral to euhedral clear Quartz lining and in filling fracture or vuggy porosity, minor drusy Calcite, estimate possible streak to 6% porosity, no live shows, common argillaceous bituminous parting and in fill.
3115-3120	100	DOLOMITE: 70% white translucent Mudstone/Wackestone, predominantly coarse sparry, 30% mottled medium to dark grey Packstone, fine to medium grain in part, predominantly fine to medium crystalline, slight argillaceous in part, poor to fair porosity, estimate possible >6%, abundant loose coarse Dolomite rhombs, occasional anhedral to subhedral Quartz in fill, no visible Calcite, minor bitumen in fill.
3102-3125	100	DOLOMITE: 60white translucent coarse sparry, 40% medium to dark grey Packstone, as above, estimate >6% porosity, abundant loose Dolomite rhombs, occasional rhombic lined vuggy or fracture, upper to 10% anhedral to euhedral Quartz lining and in filling porosity, occasional black bituminous argillaceous in fill.
3125-3130		As above, decrease Quartz.
3130-3135		As above, fair porosity, abundant loose Dolomite rhombs, minor Quartz.
3135-3140	100	DOLOMITE: mottled white translucent to medium and dark grey, Wackestone/Packstone, grain remnant predominantly indistinct re-crystallized, fine to medium grain in part, predominantly fine to medium crystalline, crypto in part, white translucent predominantly coarse sparry, slight argillaceous in part, occasional disseminated pyrite, poor to fair porosity, estimate predominantly up to 3% with possible streak to >6%, clear to milky medium to coarse rhombic lined vuggy or fracture common, loose Dolomite rhombs common, occasional anhedral to euhedral Quartz lining and in filling porosity, no live show, occasional black bituminous argillaceous in fill.
3140-3145	100	DOLOMITE: becoming common micro to very fine crystalline, decrease visible porosity estimate >3%, loose Dolomite rhombs common, minor Quartz, as above, trace Shale stringer.
3145-3150	40	DOLOMITE: as above.
	60	DOLOMITE: Mudstone/Wackestone, light to medium grey, predominantly micro to very fine crystalline, common crypto crystalline, fine to medium in part, non sucrosic, slight argillaceous, well indurated, tight, no show, trace Shale stringer.

DEPTH	%	DESCRIPTION
		TOP ARNICA: Drilled: 3150m MD. **Logs: 3153.5m MD. -2736m SS.**
3150-3155	100	DOLOMITE: mottled grey and dark grey, white translucent common. Mudstone/Packstone, grain remnant predominantly indistinct re-crystallized, fine to medium grain in part, non sucrosic, white translucent coarse sparry common (predominantly occurring as fracture and vein fill), common medium to dark grey slight argillaceous, predominantly tight with occasional rhombic lined vuggy and fracture porosity, loose Dolomite rhombs common, estimate <3% porosity, no shows.
3155-3160	100	DOLOMITE: Mudstone; predominantly buff to medium grey, dark grey to black in part, predominantly very fine to fine crystalline, crypto oil micro in part, non sucrosic, common dark grey to black slight bitumen argillaceous, tight to poor porosity, <3%, scattered white translucent sparry Dolomite in filling fracture and vein, occasional rhombic lined vuggy or fracture, trace drusy Quartz, no show.
3160-3165	100	DOLOMITE: as above with occasional Wackestone/Packstone, Dolomite becoming sub sucrosic in part, abundant dark grey to black slight argillaceous, increase porosity, estimate up to 3% in part, no shows, as above.
3165-3170	100	DOLOMITE: buff to medium grey, minor dark grey argillaceous, appears as re-crystallized Packstone/Grainstone, grain remnant predominantly indistinct, predominantly fine to medium crystalline, minor micro to very fine crystalline, non to sub sucrosic, minor slight argillaceous, tight to poor porosity, estimate <3%, minor white sparry Dolomite fracture fill and vein, occasional rhombic lined vug or fracture, no shows.
3170-3175		As above.
3175-3180	100	DOLOMITE: as above with abundant micro very fine crystalline sub sucrosic to sucrosic, tight to poor porosity, some inter crystalline porosity present.
3180-3185	80 20	DOLOMITE: as above with dark grey to black slight argillaceous common. DOLOMITE: buff to light tan and medium grey, Mudstone, predominantly crypto crystalline, micro in part, lithographic in part, slight argillaceous, dense, tight, no shows.
3185-3190	100	DOLOMITE: buff to light tan and medium to dark grey brown, Mudstone/Wackestone with minor Packstone, predominantly very fine to lower fine crystalline, non to sub sucrosic, crypto crystalline dense in part, dark grey slight argillaceous in part, tight to poor porosity <3%, occasional drusy Calcite lined open fracture, rare rhombic lined vuggy, some inter crystalline porosity, no show.
3190-3195		As above, with minor dark brown grey, common very fine crystalline sucrosic, occasional fracture, tight to poor fracture and inter crystalline porosity.
3195-3200	100	DOLOMITE: buff to medium grey, common dark grey, predominantly Mudstone/Wackestone, minor Packstone, grain remnant indistinct, predominantly micro to very fine crystalline non to sub sucrosic, crypto crystalline in part, slight argillaceous in part, occasional white translucent sparry Dolomite fracture fill, trace drusy Calcite open fracture, tight to trace porosity no show.
3200-3205		As above.
3205-3210	100	DOLOMITE: Mudstone/Wackestone as above with abundant dark grey slight argillaceous, common crypto crystalline dense, minor fracture, as above.

DEPTH	%	DESCRIPTION
3210-3215	100	DOLOMITE: buff to medium and dark grey, Mudstone dominant, minor Wackestone/Packstone, crypto to micro crystalline, non sucrosic, dark grey slight argillaceous in part, abundant floating fine to medium rounded Quartz grain, trace disseminated pyrite, tight to poor porosity, common subhedral to euhedral Calcite lining and in filling fracture, no shows.
		TOP BEAR ROCK: Drilled: 3217m MD. Logs: 3220m MD.
3215-3220		As above, Dolomite calcareous limy in part, occasional floating sand grain as above, trace dark grey dolomitic Shale stringer.
3220-3225	100	DOLOMITE: common dark grey slight argillaceous, occasional floating sand grain, common Calcite lining and infilling porosity, no Shale, as above.
3225-3230		As above, with rare floating sand grain, minor dark grey slight argillaceous.
3230-3235	100	DOLOMITE: buff to medium and dark grey brown, grey in part, Mudstone with occasional Wackestone/Packstone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous limy in part, dark grey slight argillaceous in part, tight to trace porosity, common clear to white subhedral to euhedral Calcite lining and in filling fracture, no shows, rare trace Shale stringer.
3235-3240	100	DOLOMITE: buff to grey and medium dark to dark grey, abundant white translucent sparry (fracture fill), Mudstone dominant, minor Wackestone/Packstone, predominantly crypto to micro crystalline, common very fine to fine, calcareous in part, common dark grey slight argillaceous, tight to poor porosity, up to 3%, abundant white translucent sparry Dolomite fracture fill, common clear to white anhedral to euhedral Calcite and Quartz lining and in filling fracture, no shows.
3240-3245	100	DOLOMITE: as above with Wackestone common, occasional medium to coarse rhombic lined open fracture, possible streak to 6% porosity, no shows.
3245-3250	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, minor Wackestone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous in part, minor dark grey argillaceous, poor fracture porosity, estimate streak up to 3%, occasional anhedral to euhedral Calcite lining and infilling fracture, trace drusy Quartz, abundant white translucent sparry Dolomite in filling fracture, loose rhombs common, no show.
3250-3255		As above, occasional disseminated Pyrite.
3255-3260		All as above.
3260-3265	100	DOLOMITE: as above with predominantly crypto crystalline, micro crystalline sub sucrosic in part, decrease white translucent sparry Dolomite, trace drusy Calcite, rare Quartz, as above.
3265-3270	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, minor Wackestone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous in part, minor dark grey argillaceous, poor fracture porosity, estimate streak up to 3%, rare anhedral to euhedral Calcite lining and infilling fracture, trace drusy Quartz, abundant white translucent sparry Dolomite in filling fracture, loose rhombs common, no show.
3270-3275		All as above.
3275-3280		As above with decrease white sparry Dolomite, occasional rhombic lined fracture, < 3% porosity, as above.

DEPTH	%	DESCRIPTION
3280-3285	100	DOLOMITE: buff to medium brown grey, minor dark grey, slight argillaceous, Mudstone, occasional Wackestone, predominantly crypto crystalline, minor micro crystalline sub sucrosic, calcareous in part, occasional dark grey slight argillaceous, tight to trace porosity, common white translucent sparry Dolomite in filling fracture, trace rhombic lined open fracture, no show.
3285-3290		As above, occasional disseminated Pyrite.
3290-3295		As above, with trace drusy Quartz.
3295-3300	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, common Wackestone, crypto to micro crystalline, common micro sucrosic, calcareous in part, minor dark grey slight argillaceous, trace disseminated pyrite, poor fracture porosity, common white translucent sparry Dolomite in filling fracture, minor loose rhombs, trace drusy Quartz, no show.
3300-3305	100	DOLOMITE: predominantly crypto crystalline, minor micro crystalline, common medium dark to dark grey argillaceous, tight to trace porosity, as above.
3305-3310		As above, occasional micro to very fine crystalline sucrosic, trace inter crystalline porosity, trace floating fine to medium rounded quartz grain, minor fracture.
3310-3315		As above, with minor argillaceous, minor fracture, trace floating sand grain, as above.
3315-3320	100	DOLOMITE: buff to medium grey, Mudstone, lithographic to crypto crystalline, sub chalky calcareous in part, slight argillaceous to argillaceous in part, abundant floating fine to lower coarse sub rounded to rounded clear Quartz sand grain, predominantly tight with trace anhedral to euhedral Calcite lining and in filling fracture, no show.
3320-3325	100	DOLOMITE: buff to medium brown grey, Mudstone, crypto crystalline, minor lithographic, calcareous, sub chalky in part, minor slight argillaceous, predominantly dense tight with occasional drusy Calcite lining and in filling fracture and vein, no shows.
3325-3330	100	DOLOMITE: predominantly medium dark to dark brown grey, buff in part, Mudstone, predominantly lithographic to crypto crystalline, occasional micro to lower very fine crystalline sub sucrosic, calcareous in part, slight argillaceous to argillaceous in part, predominantly dense tight, common subhedral to euhedral Calcite lining and in filling fracture, trace open fracture, trace white sparry Dolomite.
3330-3335		As above.
3335-3340		As above, with common dark grey argillaceous, occasional floating sand grain as above, common Calcite fracture fill and vein, trace open fracture.
3340-3345	100	DOLOMITE: predominantly medium to dark brown grey, buff to tan in part, predominantly Mudstone with occasional Wackestone/Packstone, occasional medium grain, lithographic to crypto crystalline, common dark grey argillaceous, slight calcareous in part, common floating sub rounded to rounded clear Quartz sand grain, trace disseminated pyrite, tight to trace fracture porosity, common anhedral to subhedral Calcite fracture fill, trace euhedral Calcite lined open fracture, occasional sparry Dolomite in fill, no shows.
3345-3350	100	DOLOMITE: as above with abundant floating fine to lower coarse sub rounded to rounded clear Quartz sand grain, common white translucent coarse sparry Dolomite in filling fracture, trace rhombic lined open fracture, no shows.

FTD: Driller: 3350m MD
Logger: 3353.5m MD. -2936m SS.

DIRECTIONAL SURVEYS

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	46.90	0.02	242.50	46.90	-0.00	-0.01	0.00	0.01
2	69.60	0.30	250.00	69.60	-0.03	-0.07	-0.01	0.37
3	97.30	0.20	260.00	97.30	-0.06	-0.18	-0.03	0.12
4	134.40	0.30	246.20	134.40	-0.11	-0.34	-0.05	0.09
5	162.80	0.70	239.90	162.80	-0.23	-0.55	-0.04	0.43
6	190.90	0.70	236.20	190.90	-0.41	-0.84	-0.00	0.05
7	219.30	0.90	242.70	219.29	-0.61	-1.19	0.03	0.23
8	266.00	1.00	246.30	265.99	-0.94	-1.89	0.02	0.08
9	295.10	1.00	247.70	295.08	-1.14	-2.35	-0.00	0.02
10	323.60	1.00	259.80	323.58	-1.28	-2.83	-0.09	0.22
11	351.50	1.00	260.60	351.47	-1.36	-3.31	-0.22	0.00
12	380.70	1.20	266.70	380.67	-1.42	-3.86	-0.41	0.24
13	399.40	1.30	253.50	399.36	-1.49	-4.26	-0.52	0.49
14	427.70	0.80	243.50	427.66	-1.67	-4.75	-0.57	0.56
15	455.90	0.80	230.90	455.86	-1.88	-5.08	-0.52	0.19
16	484.00	0.80	236.70	483.95	-2.11	-5.39	-0.45	0.08
17	521.60	0.80	246.10	521.55	-2.36	-5.85	-0.43	0.10
18	549.60	0.70	252.90	549.55	-2.49	-6.19	-0.46	0.14
19	578.10	0.50	260.30	578.05	-2.56	-6.48	-0.52	0.23
20	606.20	0.40	263.80	606.15	-2.60	-6.70	-0.59	0.11
21	652.50	0.40	236.80	652.44	-2.70	-7.00	-0.63	0.12
22	699.90	0.20	230.80	699.84	-2.84	-7.20	-0.59	0.13
23	746.90	0.40	217.00	746.84	-3.03	-7.36	-0.49	0.13
24	785.40	0.30	205.10	785.34	-3.23	-7.49	-0.37	0.10
25	832.20	0.40	247.70	832.14	-3.40	-7.69	-0.30	0.17
26	879.70	0.50	244.60	879.64	-3.55	-8.03	-0.31	0.06
27	925.90	0.30	254.00	925.84	-3.67	-8.33	-0.33	0.14
28	962.90	0.50	247.70	962.84	-3.76	-8.57	-0.36	0.17
29	1009.00	0.70	239.70	1008.94	-3.98	-9.00	-0.35	0.14
30	1037.30	0.50	221.00	1037.23	-4.16	-9.23	-0.29	0.29
31	1075.40	0.50	238.60	1075.33	-4.37	-9.48	-0.21	0.12
32	1113.00	0.80	252.50	1112.93	-4.53	-9.87	-0.23	0.27
33	1140.80	0.10	279.80	1140.73	-4.59	-10.08	-0.27	0.77
34	1188.10	1.00	295.30	1188.03	-4.40	-10.49	-0.62	0.57
35	1216.90	0.40	238.70	1216.82	-4.35	-10.81	-0.81	0.88
36	1246.10	0.40	146.40	1246.02	-4.49	-10.84	-0.70	0.59
37	1275.10	0.60	164.70	1275.02	-4.72	-10.74	-0.45	0.26
38	1312.40	0.60	203.30	1312.32	-5.09	-10.77	-0.13	0.32
39	1340.40	0.90	226.40	1340.32	-5.37	-10.99	0.04	0.45
40	1349.70	1.20	229.20	1349.62	-5.49	-11.11	0.08	0.98
41	1368.50	1.80	206.60	1368.41	-5.88	-11.39	0.31	1.33
42	1377.70	2.10	219.80	1377.60	-6.14	-11.57	0.47	1.76

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
43	1387.40	2.30	238.20	1387.30	-6.38	-11.84	0.56	2.26
44	1406.30	1.10	234.00	1406.19	-6.68	-12.31	0.64	1.91
45	1415.50	1.00	149.00	1415.39	-6.80	-12.34	0.73	4.63
46	1434.50	3.00	106.00	1434.38	-7.08	-11.78	1.23	3.74
47	1443.70	3.20	100.60	1443.56	-7.20	-11.30	1.54	1.16
48	1453.40	2.90	95.00	1453.25	-7.27	-10.79	1.83	1.31
49	1463.00	2.70	92.60	1462.84	-7.30	-10.32	2.06	0.73
50	1472.31	2.70	91.90	1472.14	-7.32	-9.88	2.27	0.11
51	1491.20	2.50	90.50	1491.01	-7.33	-9.02	2.66	0.33
52	1519.80	2.20	102.80	1519.58	-7.46	-7.86	3.28	0.61
53	1529.10	2.20	101.40	1528.88	-7.54	-7.52	3.50	0.17
54	1547.60	2.10	95.20	1547.36	-7.64	-6.83	3.89	0.41
55	1576.10	2.20	84.40	1575.84	-7.63	-5.77	4.35	0.44
56	1604.30	2.00	69.60	1604.03	-7.41	-4.77	4.58	0.61
57	1623.10	2.00	65.60	1622.81	-7.16	-4.16	4.62	0.22
58	1641.80	2.00	67.60	1641.50	-6.90	-3.56	4.65	0.11
59	1670.30	2.10	61.00	1669.98	-6.46	-2.64	4.65	0.27
60	1698.10	2.00	54.70	1697.77	-5.93	-1.80	4.55	0.27
61	1726.20	1.60	63.30	1725.85	-5.47	-1.05	4.46	0.51
62	1754.30	1.90	52.40	1753.94	-5.01	-0.33	4.36	0.48
63	1782.50	1.90	56.20	1782.12	-4.46	0.43	4.20	0.13
64	1810.60	1.70	72.00	1810.21	-4.07	1.21	4.19	0.57
65	1829.00	1.70	73.60	1828.60	-3.91	1.73	4.28	0.07
66	1856.80	2.20	67.30	1856.39	-3.59	2.62	4.37	0.59
67	1866.50	2.70	61.80	1866.08	-3.41	2.99	4.38	1.71
68	1875.90	3.50	56.40	1875.46	-3.15	3.43	4.33	2.72
69	1885.00	3.60	50.20	1884.55	-2.81	3.88	4.22	1.31
70	1913.00	1.70	343.80	1912.52	-1.85	4.44	3.60	3.54
71	1922.70	1.60	347.30	1922.22	-1.58	4.37	3.33	0.44
72	1941.20	1.50	2.20	1940.71	-1.09	4.32	2.86	0.67
73	1959.60	1.40	5.40	1959.10	-0.62	4.35	2.46	0.21
74	1987.80	1.50	4.30	1987.29	0.09	4.41	1.84	0.11
75	2007.10	1.50	7.40	2006.59	0.59	4.46	1.41	0.13
76	2026.20	1.40	9.90	2025.68	1.07	4.53	1.02	0.18
77	2045.50	1.30	10.60	2044.98	1.52	4.61	0.65	0.16
78	2073.20	1.20	27.30	2072.67	2.08	4.81	0.22	0.41
79	2110.70	1.00	54.40	2110.16	2.62	5.25	-0.07	0.44
80	2138.90	1.00	54.20	2138.36	2.91	5.65	-0.15	0.00
81	2167.40	1.20	64.00	2166.85	3.19	6.12	-0.19	0.29
82	2196.00	0.50	115.00	2195.45	3.27	6.50	-0.10	1.01
83	2224.00	0.70	104.60	2223.45	3.17	6.78	0.11	0.24
84	2251.60	0.80	111.90	2251.05	3.06	7.12	0.36	0.15
85	2279.80	0.50	111.90	2279.25	2.94	7.42	0.60	0.32
86	2308.10	0.60	100.60	2307.54	2.86	7.68	0.78	0.16
87	2336.30	1.10	101.10	2335.74	2.78	8.09	1.03	0.53

PARAMOUNT ANADARKO BOVIE J-76

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
88	2364.60	1.50	64.90	2364.03	2.89	8.69	1.20	0.95
89	2374.10	1.70	67.30	2373.53	3.00	8.93	1.20	0.66
90	2383.00	1.30	74.30	2382.43	3.08	9.15	1.23	1.48
91	2411.60	0.90	239.30	2411.03	3.05	9.27	1.31	2.29
92	2430.50	0.60	232.80	2429.92	2.91	9.07	1.34	0.49
93	2458.30	0.70	216.20	2457.72	2.69	8.85	1.45	0.23
94	2486.40	1.10	210.50	2485.82	2.32	8.61	1.68	0.44
95	2505.50	1.20	227.60	2504.91	2.02	8.37	1.83	0.56
96	2524.00	1.30	232.30	2523.41	1.76	8.06	1.93	0.23
97	2552.00	2.10	244.80	2551.40	1.35	7.35	1.99	0.94
98	2580.50	2.70	243.50	2579.87	0.83	6.27	1.99	0.63
99	2599.60	3.00	235.90	2598.95	0.35	5.46	2.07	0.76
100	2609.10	2.80	242.50	2608.44	0.10	5.04	2.11	1.23
101	2618.80	2.20	242.80	2618.13	-0.09	4.67	2.12	1.86
102	2638.30	2.10	232.50	2637.61	-0.48	4.05	2.20	0.61
103	2648.00	2.40	228.90	2647.31	-0.72	3.76	2.29	1.03
104	2657.80	2.30	230.40	2657.10	-0.98	3.45	2.39	0.36
105	2676.20	1.90	196.90	2675.49	-1.51	3.08	2.70	2.07
106	2702.00	1.70	203.20	2701.27	-2.27	2.80	3.27	0.33
107	2790.00	1.50	201.10	2789.24	-4.54	1.88	4.91	0.07
108	2816.20	1.40	202.50	2815.43	-5.16	1.63	5.35	0.12
109	2854.60	1.40	198.80	2853.82	-6.04	1.30	6.00	0.07
110	2868.00	1.60	203.30	2867.21	-6.36	1.17	6.24	0.52
111	2883.10	1.10	210.70	2882.31	-6.68	1.01	6.45	1.05
112	2940.70	0.80	202.70	2939.90	-7.53	0.58	7.03	0.17
113	2969.40	0.50	211.70	2968.60	-7.82	0.43	7.22	0.33
114	2998.40	0.50	350.00	2997.60	-7.80	0.35	7.17	0.97
115	3055.90	0.30	356.00	3055.10	-7.41	0.29	6.79	0.11
116	3085.10	0.10	108.80	3084.30	-7.34	0.31	6.74	0.36
117	3113.40	0.40	101.10	3112.60	-7.37	0.43	6.81	0.32
118	3142.30	0.70	86.20	3141.50	-7.37	0.71	6.94	0.34
119	3169.90	1.20	94.20	3169.09	-7.38	1.16	7.15	0.56
120	3189.70	0.80	105.90	3188.89	-7.44	1.50	7.35	0.68
121	3218.60	1.00	113.70	3217.79	-7.59	1.93	7.67	0.24
122	3255.70	0.80	94.70	3254.88	-7.74	2.48	8.05	0.29
123	3333.00	0.70	65.10	3332.18	-7.59	3.45	8.33	0.15
Bit*	3350.00	0.70	65.10	3349.17	-7.50	3.64	8.34	0.00

* Extraplolated to TD.

LITHOLOGY STRIP LOG
WellSight Systems Inc.
Scale 1:240 (5"=100') Metric

Well Name: PARAMOUNT ANADARKO BOVIE J76
Location: Unit: J, Section: 76 NWT
Licence Number: 1931
Spud Date: 0800 hr. 12/22/01
Surface Coordinates: 60° 35' North / 122° 48' West

Region: Fort Liard, NWT
Drilling Completed: 1800 hr. 02/05/02

Bottom Hole Coordinates:
Ground Elevation (m): 412.0 **K.B. Elevation (m):** 417.3
Logged Interval (m): 2145 To: 3350 **Total Depth (m):** 3350
Formation: Bear Rock
Type of Drilling Fluid: Invert 2145-2810, Gel Chem, 2810 to FTD.

Printed by WellSight Log Viewer from WellSight Systems Inc. 1-800-447-1634 www.wellsight.com

OPERATOR

Company: PARAMOUNT RESOURCES LTD.
Address: 4700 Bankers Hall West
888 3rd Street S.W.
Calgary, Alberta T2P 5C5

GEOLOGIST

Name: Dan Taylor
Company: D.F. TAYLOR CONSULTING LTD.
Address: 4316 Grovehill Road S.W.
Calgary, Alberta T3E 4E6

DSTs

DST #1: From: 2868m to 2885m
Formation: Slave Point.
(No Penetration)

Comments

TD Driller: 3350.0m
TD Logger: 3353.6m

NOTE: Gamma Curve offset 3.5m to correlate w/ drilled depth.

ROCK TYPES

Anhy, Bent, Brec, Chl, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mrist, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till, Blank

ACCESSORIES

MINERAL: Anhy, Anggm, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chrtfk, Chrt, Dol, Feldspar, Ferrpel, Fer, Glau, Gyp, Hrystn, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff

FOSSIL: Algae, Amph, Bafm, Blastpel, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelsp, Pellet, Piscolite, Plant, Strom

STRINGER: Anhy, Arg, Bent, Coal

TEXTURE: Boundst, Chalky, Crystln, Earthy, Flmxstn, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

OTHER SYMBOLS

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

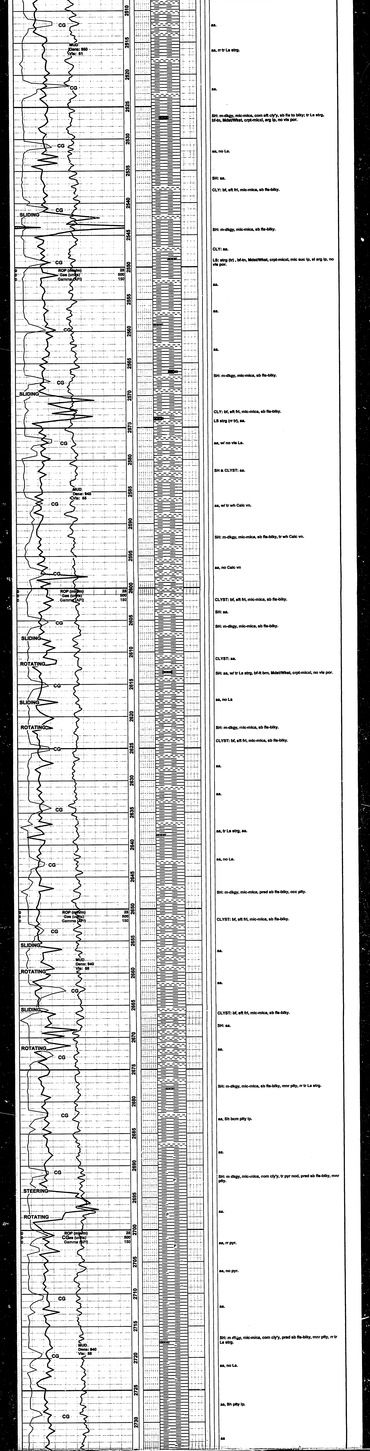
SORTING: Well, Moderate, Poor

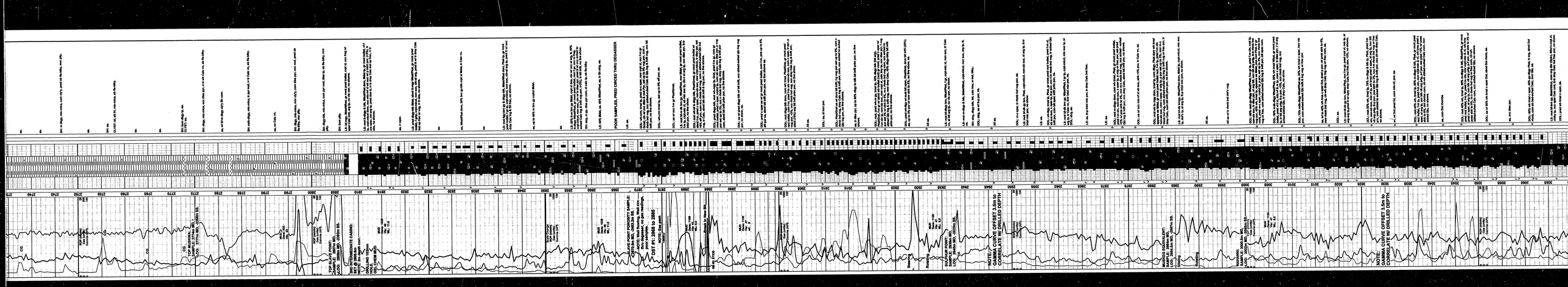
ROUNDING: Rounded, Subrnd, Subang, Angular

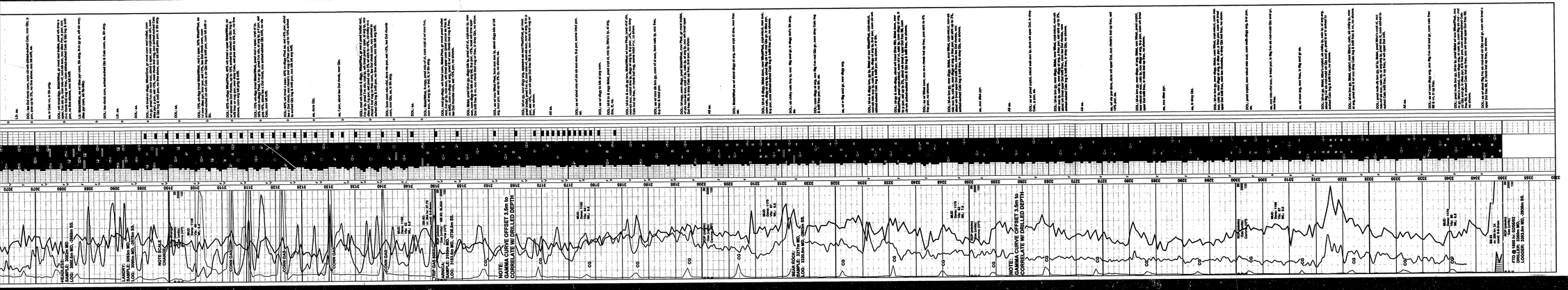
OIL SHOWS: Even, Spotted, Ques, Dull

EVENTS: RR, Sidewall

INTERVALS: None, Core, Dst




TOP SLANT POINT:
2,240' (2,231.3m MD)
2,237m SS.
2ND INTERMEDIATE CASING:
TVDF: 2m SS.
2,240' (2,231.3m MD)
2,237m SS.
TOP RESERVOIR:
LOG: 2777m MD, -2536m SS.
SLANT POINT FORCEFIT SAMPLE:
Core/Log MD: 2483.2m SS.
Core/Log TVD: 2483.2m SS.
Strong gas response, no gas readings.
DST #1: 2868 to 2885
NOTE: Slug pack
Shale to Shale
Sandstone
Shale
Sandstone
Shale
Sandstone


NOTE: GAMMA CURVE OFFSET 3.6m to CORRELATE W/ DRILLED DEPTH
NOTE: GAMMA CURVE OFFSET 3.6m to CORRELATE W/ DRILLED DEPTH
HEALEY: 3000m MD, -3000m SS.
LARBRY: 3034m MD, -3034m SS.
COORONG
COORONG
COORONG

PROPOSED WELLSITE PLAN

OVERSIZED

DOCUMENT

FILMED

ON

35mm

WATER ANALYSIS

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
050 - 6			52136-2002-0743

Paramount Resources Ltd. — OPERATOR

1 — PAGE

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #1

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 05	2002 03 13	2002 03 23	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	117	0.0119	5.1
K	5,037	0.5140	128.8
Ca	64	0.0065	3.2
Mg	18	0.0018	1.5
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	4,309	0.4397	121.5
Br			
I			
HCO_3	185	0.0189	3.0
SO_4	70	0.0072	1.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

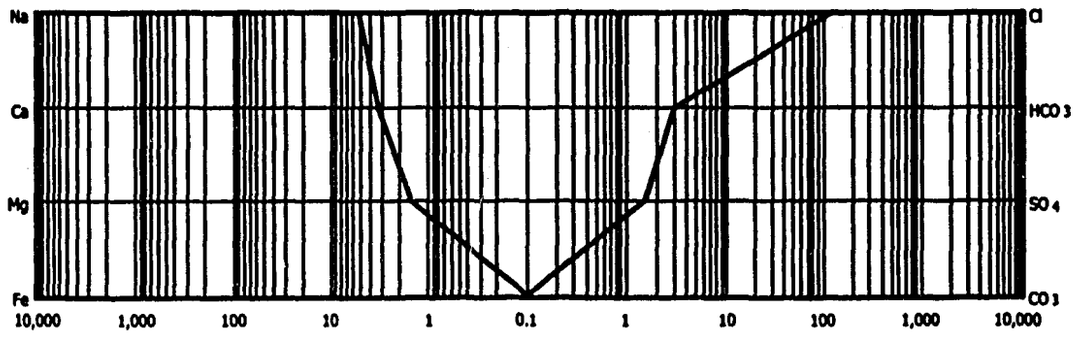
At Ignition	Calculated
	9800

Specific Gravity	Refractive Index
1.0059 @ 15.6 °C	1.3335 @ 18 °C

pH	Resistivity (Ohm-Meters)
7.2	0.631 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

051 - 8			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 2

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #4

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:40 hrs

2002 03 05	2002 03 13	2002 03 23	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	202	0.0066	8.8
K	15,131	0.4925	387.0
Ca	106	0.0035	5.3
Mg	26	0.0009	2.2
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

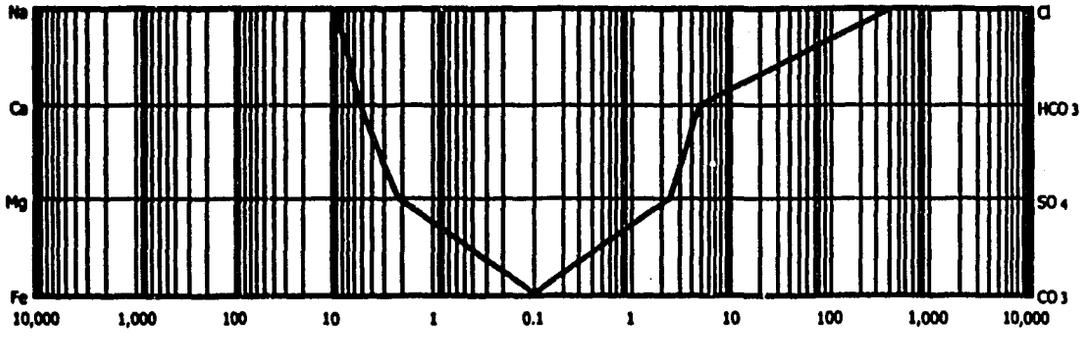
ION	mg/L	mg Fraction	meq/L
Cl	14,851	0.4834	418.9
Br			
I			
HCO_3	286	0.0093	4.7
SO_4	118	0.0038	2.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	30720 Calculated
1.0181 @ 15.6 °C Specific Gravity	1.3380 @ 18 °C Refractive Index
7.6 pH	0.214 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
046 - 2			52136-2002-0743

Paramount Resources Ltd. — OPERATOR — PAGE 3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #1 — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters): 3095.0 - 3115.0, 3125.0 - 3135.0

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

Pressures, kPa (gauge) at 07:50 hrs: SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR — OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 07	2002 03 13	2002 03 23	MN		@ •

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,042	0.1286	480.3
K	14,123	0.1645	361.2
Ca	8,045	0.0937	401.4
Mg	2,598	0.0303	213.7
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

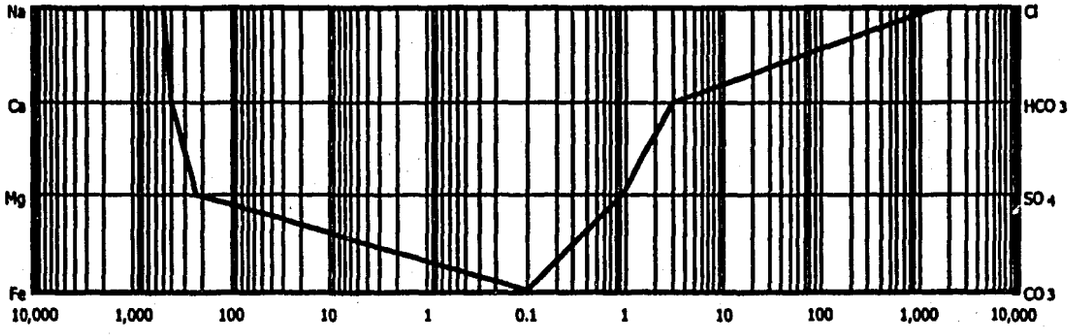
ION	mg/L	mg Fraction	meq/L
Cl	49,817	0.5803	1,405.2
Br			
I			
HCO_3	185	0.0022	3.0
SO_4	42	0.0005	0.9
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	Calculated
	85852
1.0621 @ 15.6 °C	1.3485 @ 18 °C
Specific Gravity	Refractive Index
5.1	0.086 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

047 - 3			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 4

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO.: Manifold Swab #2 — TEST RECOVERY

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 08:20 hrs

2002 03 07	2002 03 13	2002 03 23	MN		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	279	0.0078	12.1
K	17,697	0.4952	452.6
Ca	143	0.0040	7.1
Mg	34	0.0010	2.8
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	17,216	0.4817	485.6
Br			
I			
HCO_3	232	0.0065	3.8
SO_4	139	0.0039	2.9
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

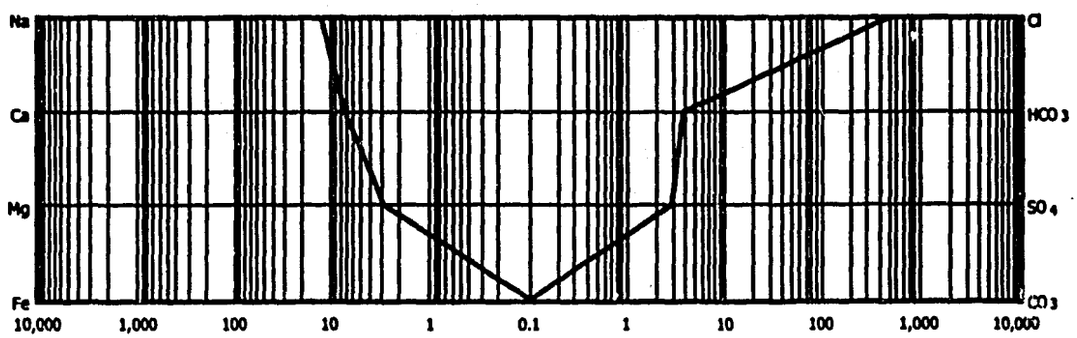
At Ignition	Calculated
	35740

1.0225 @ 15.6 °C	1.3390 @ 18 °C
Specific Gravity	Refractive Index

6.0	0.179 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
048 - 4			52136-2002-0743

Paramount Resources Ltd. — OPERATOR

5 — PAGE

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO.

TEST RECOVERY

Manifold Swab #5

POINT OF SAMPLE

CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — at 10:00 hrs

SEPARATOR | OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 07	2002 03 13	2002 03 23	MN		@ .

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,717	0.1950	1,510.1
K	8,793	0.0494	224.9
Ca	20,023	0.1125	999.1
Mg	4,830	0.0271	397.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	108,942	0.6120	3,072.9
Br			
I			
HCO_3	628	0.0035	10.3
SO_4	65	0.0004	1.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

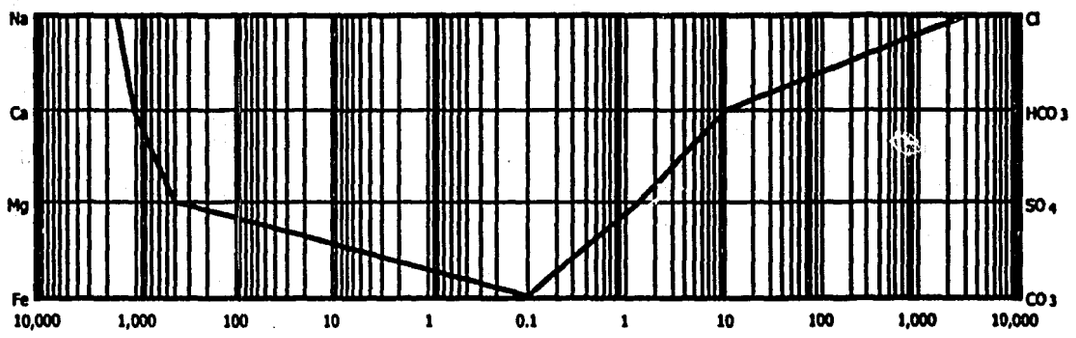
At Ignition	Calculated
	177998

Specific Gravity	Refractive Index
1.1293 @ 15.6 °C	1.3650 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.6	0.053 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
049 - 5			52136-2002-0743

Paramount Resources Ltd. — OPERATOR — PAGE 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Amica	Opsco Energy

TEST TYPE AND NO: Manifold Swab #8 — TEST RECOVERY

POINT OF SAMPLE: 3095.0 - 3115.0, 3125.0 - 3135.0 — CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge) — SEPARATOR | OTHER — Temperatures, °C

at 11:13 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ ·
2002 03 07	2002 03 13	2002 03 23	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	36,107	0.1952	1,570.6
K	7,221	0.0390	184.7
Ca	21,677	0.1172	1,081.7
Mg	5,221	0.0282	429.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	114,151	0.6171	3,219.8
Br			
I			
HCO_3	587	0.0032	9.6
SO_4	13	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

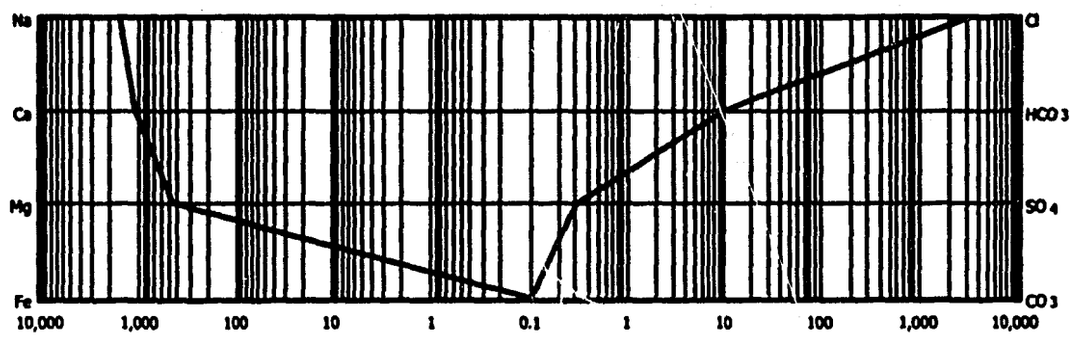
At Ignition	Calculated
	184977

Specific Gravity	Refractive Index
1.1353 @ 15.6 °C	1.3670 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.5	0.052 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

452 - 7			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 7
OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Amica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #12

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 13:25 hrs

2002 03 07	2002 03 13	2002 03 23	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	36,364	0.1947	1,581.7
K	6,999	0.0375	179.0
Ca	22,176	0.1188	1,106.6
Mg	4,601	0.0246	378.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

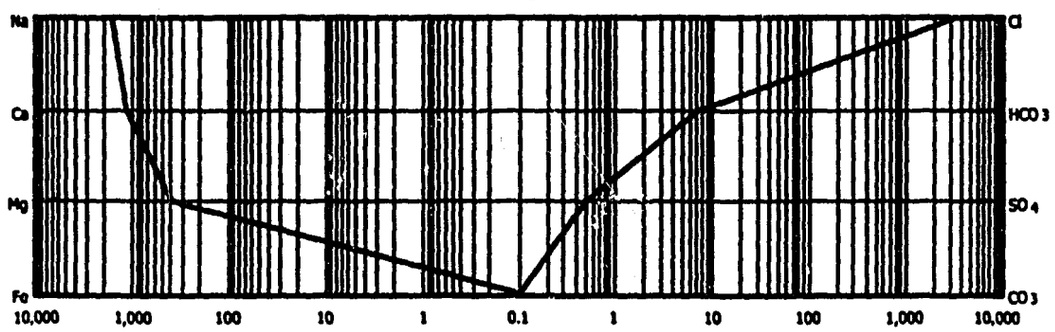
ION	mg/L	mg Fraction	meq/L
Cl	116,124	0.6219	3,275.4
Br			
I			
HCO_3	439	0.0023	7.2
SO_4	26	0.0001	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	186729 Calculated
1.1375 @ 15.6 °C Specific Gravity	1.3875 @ 18 °C Refractive Index
5.5 pH	0.051 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

449 - 1			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 8

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #14

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 14:54 hrs

2002 03 07	2002 03 13	2002 03 22	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	44,454	0.2265	1,933.6
K	7,837	0.0399	200.4
Ca	19,058	0.0971	951.0
Mg	5,450	0.0278	448.5
Ba			
Sr			
Fe	Pres.		
Mn			

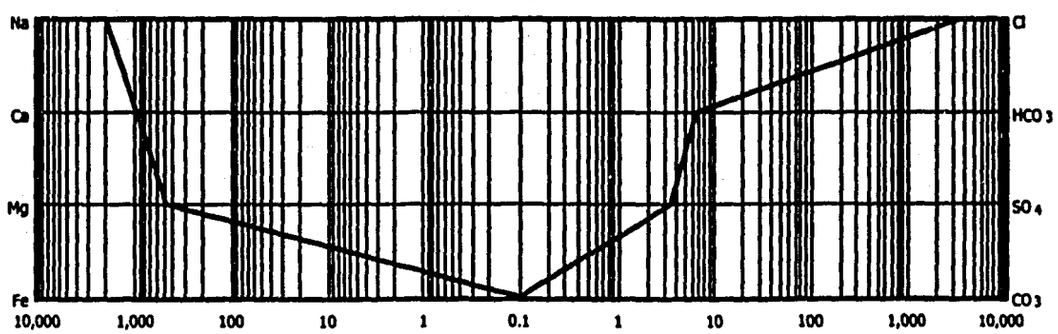
ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	118,886	0.6058	3,353.3
Br			
I			
HCO_3	397	0.0020	6.5
SO_4	165	0.0008	3.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
	196247
At Ignition	Calculated
1.1366 @ 15.6 °C	1.3695 @ 20 °C
Specific Gravity	Refractive Index
5.4	0.050 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS
meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
245 - 1			52136-2002-0811

Paramount Resources Ltd. — OPERATOR

PAGE: 1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: — TEST RECOVERY:

Manifold Swab #1 — POINT OF SAMPLE

CORE LAB SAMPLE POINT ID:

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 17:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 10	2002 03 19	2002 03 25	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	159	0.0193	6.9
K	4,055	0.4924	103.7
Ca	61	0.0074	3.1
Mg	51	0.0062	4.2
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	3,690	0.4480	104.1
Br			
I			
HCO_3	162	0.0196	2.6
SO_4	58	0.0070	1.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

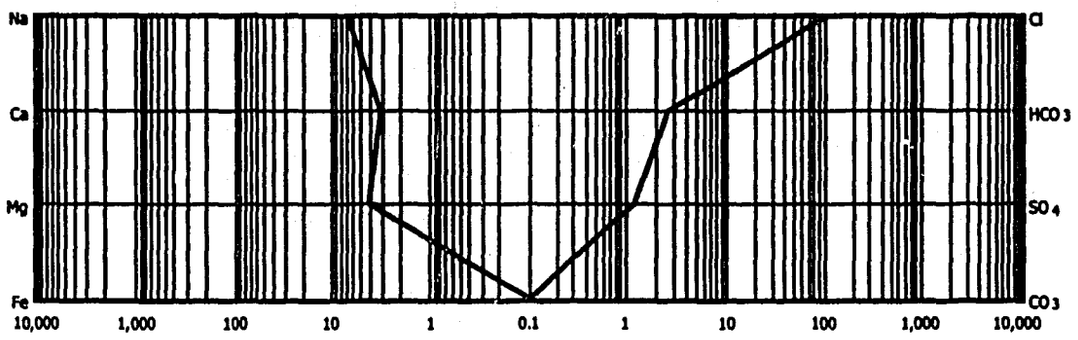
At Ignition	Calculated
	8236

Specific Gravity	Refractive Index
1.0051 @ 15.6 °C	1.3340 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.7	0.740 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
246 - 2			52136-2002-0811

Paramount Resources Ltd. (OPERATOR) — PAGE: 2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: Manifold Swab #1 — TEST RECOVERY:

POINT OF SAMPLE: 3001.0 - 3012.0, 3017.0 - 3024.0 — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 08:45 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ ·
2002 03 11	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	2,300	0.0703	100.0
K	9,773	0.2989	250.0
Ca	1,755	0.0537	87.5
Mg	255	0.0078	20.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	17,059	0.5217	481.2
Br			
I			
HCO_3	1,477	0.0452	24.2
SO_4	79	0.0024	1.6
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

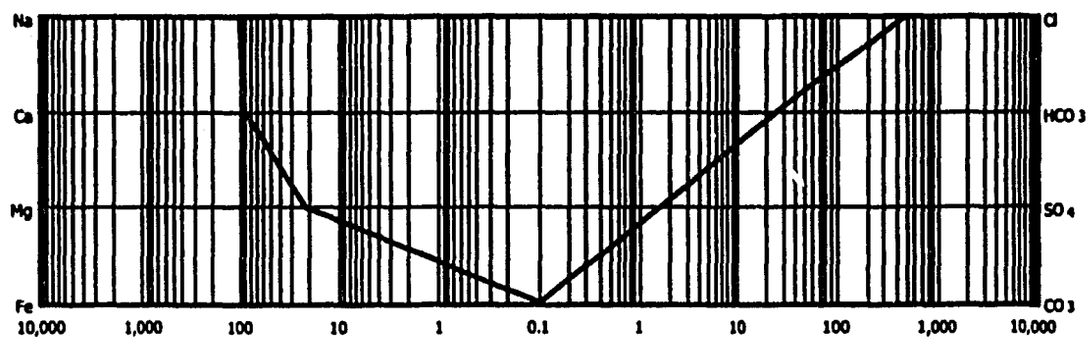
At Ignition	Calculated
	32698

Specific Gravity	Refractive Index
1.0242 @ 15.6 °C	1.3390 @ 18 °C

pH	Resistivity (Ohm-Meters)
7.1	0.185 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
247 - 3			52136-2002-0811

OPERATOR	PAGE
Paramount Resources Ltd.	3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold Swab #2	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:30 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 11	2002 03 19	2002 03 25	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	25,258	0.2087	1,098.7
K	6,615	0.0547	169.2
Ca	14,115	0.1166	704.3
Mg	372	0.0031	30.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	73,725	0.6091	2,079.5
Br			
I			
HCO_3	931	0.0077	15.3
SO_4	24	0.0002	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

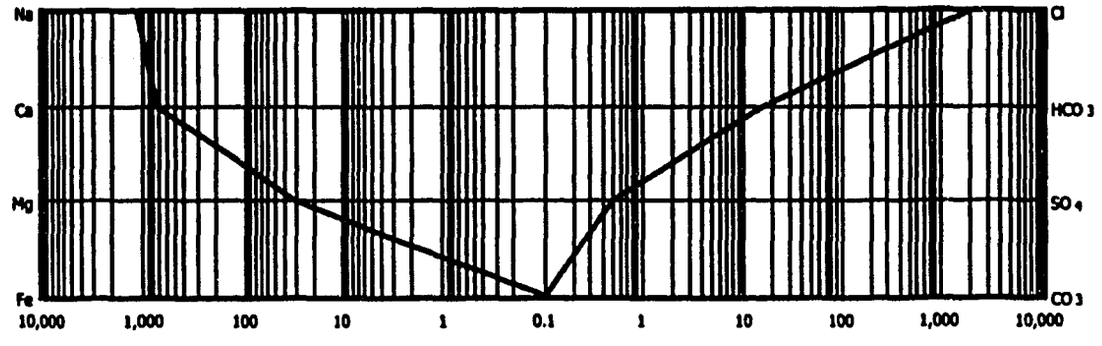
At Ignition	Calculated
	121040

Specific Gravity	Refractive Index
1.0881 @ 15.6 °C	1.3550 @ 18 °C

pH	Resistivity (Ohm-Meters)
6.5	0.067 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
248 - 4			52136-2002-0811

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Paramount Resources Ltd.	4

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.

TEST RECOVERY

Manifold Swab #6

POINT OF SAMPLE

CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters)

3001.0 - 3012.0
3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 19:45 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 12	2002 03 19	2002 03 25	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	27,486	0.1383	1,195.6
K	4,300	0.0216	110.0
Ca	32,809	0.1651	1,637.2
Mg	7,083	0.0357	582.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	126,709	0.6377	3,574.0
Br			
I			
HCO_3	289	0.0015	4.7
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

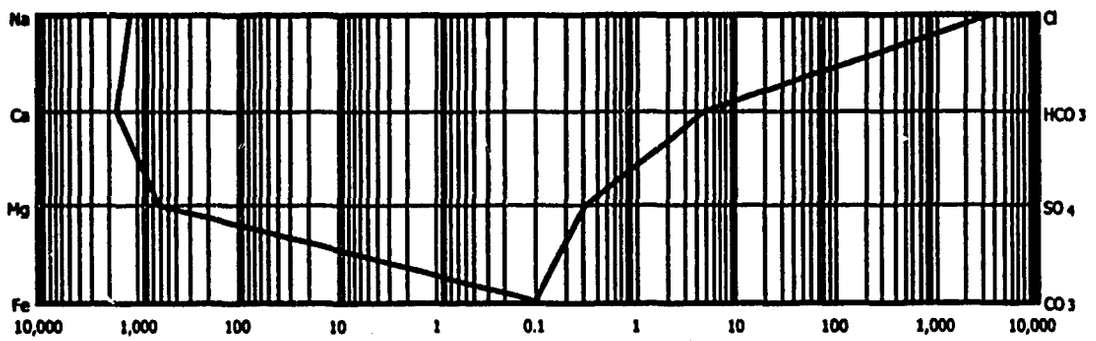
At Ignition	Calculated
	198690

Specific Gravity	Refractive Index
1.1483 @ 15.6 °C	1.3721 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.0	0.053 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
249 - 5			52136-2002-0811

Paramount Resources Ltd. — OPERATOR

PAGE: 5

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: Manifold Swab #2

TEST RECOVERY:

POINT OF SAMPLE:

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 08:35 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 13	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	28,974	0.1479	1,260.3
K	4,763	0.0243	121.8
Ca	30,013	0.1532	1,497.7
Mg	7,679	0.0392	631.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	124,416	0.6352	3,509.3
Br			
I			
HCO_3	0.00	0.0000	0.0
SO_4	22	0.0001	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

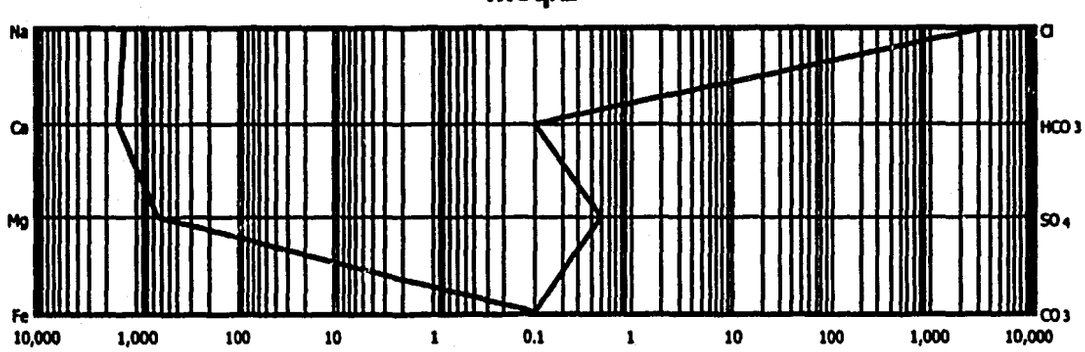
At Ignition	Calculated
	195867

Specific Gravity	Refractive Index
1.1498 @ 15.6 °C	1.3720 @ 18 °C

pH	Resistivity (Ohm-Meters)
4.4	0.052 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

250 - 6			52136-2002-0811
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 6

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Nahanni	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #6

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/c

SEPARATOR — RESERVOIR — OTHER — CONTAINER WHEN SAMPLED @ °C — CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 11:30 hrs

2002 03 13	2002 03 19	2002 03 25	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	29,673	0.1592	1,290.7
K	5,200	0.0279	133.0
Ca	27,233	0.1461	1,358.9
Mg	5,617	0.0301	462.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

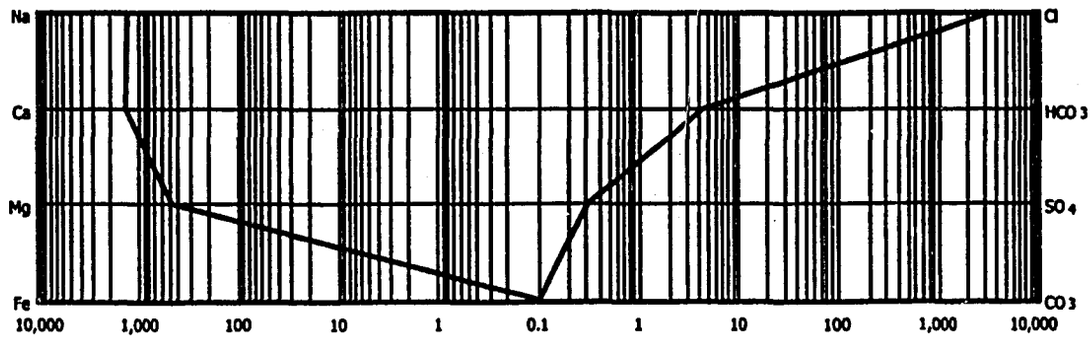
ION	mg/L	mg Fraction	meq/L
Cl	118,372	0.6351	3,338.8
Br			
I			
HCO_3	269	0.0014	4.4
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	186378 Calculated
1.1440 @ 15.6 °C Specific Gravity	1.3702 @ 18 °C Refractive Index
5.3 pH	0.052 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

251 - 7			52136-2002-0811
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 7

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Nahanni	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #7

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 12:37 hrs

2002 03 13	2002 03 19	2002 03 25	MN		@ .
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,404	0.1626	1,496.5
K	5,640	0.0267	144.3
Ca	31,111	0.1470	1,552.4
Mg	6,211	0.0294	511.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

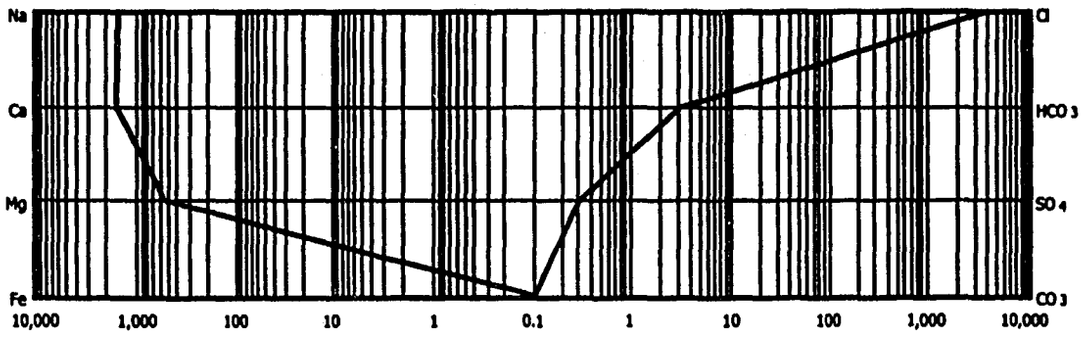
ION	mg/L	mg Fraction	meq/L
Cl	134,024	0.6334	3,780.3
Br			
I			
HCO_3	192	0.0009	3.1
SO_4	16	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	211598 Calculated
1.1603 @ 15.6 °C Specific Gravity	1.3740 @ 18 °C Refractive Index
5.0 pH	0.049 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
252 - 8			52136-2002-0811

OPERATOR	PAGE
Paramount Resources Ltd.	8

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO: Manifold Swab #8

TEST RECOVERY:

POINT OF SAMPLE:

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 13:39 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ •
2002 03 13	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	21,479	0.1509	934.3
K	5,429	0.0382	138.9
Ca	22,276	0.1565	1,111.6
Mg	3,784	0.0266	311.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	89,030	0.6257	2,511.2
Br			
I			
HCO_3	276	0.0019	4.5
SO_4	20	0.0001	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

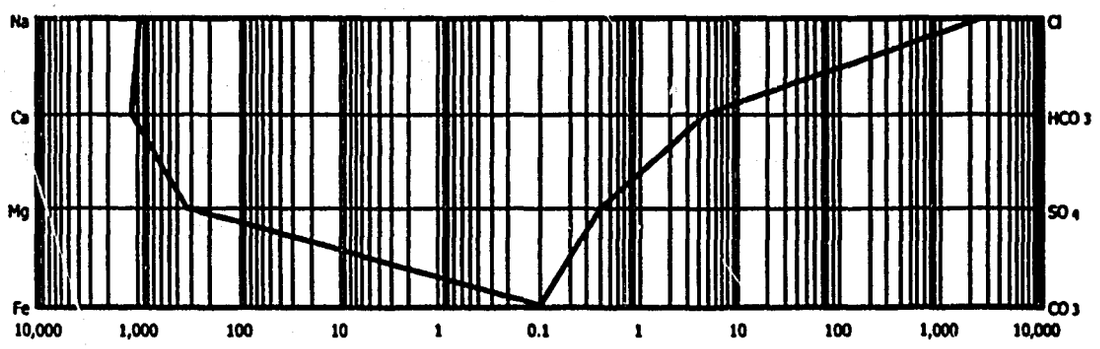
At Ignition	Calculated
	142294

Specific Gravity	Refractive Index
1.1077 @ 15.6 °C	1.3610 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.5	0.062 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
356 - 1			52136-2002-0924

OPERATOR	PAGE
Paramount Resources Ltd.	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

TEST INTERVAL or PERFS (meters): 2910.0 - 2936.0

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 18:18 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °
2002 03 22	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,732	0.3935	1,510.8
K	844	0.0096	21.6
Ca	202	0.0023	10.1
Mg	20	0.0002	1.6
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	52,137	0.5907	1,470.6
Br			
I			
HCO_3	272	0.0031	4.5
SO_4	56	0.0006	1.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

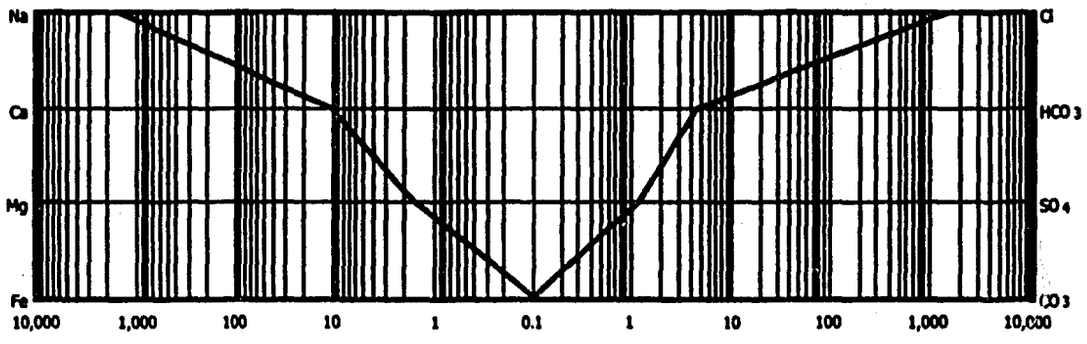
At Ignition	Calculated
	88263

Specific Gravity	Refractive Index
1.0602 @ 15.6 °C	1.3479 @ 20 °C

pH	Resistivity (Ohm-Meters)
7.2	0.082 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
357 - 2			52136-2002-0924

OPERATOR	PAGE
Paramount Resources Ltd.	2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

TEST INTERVAL or PERFS (meters): 2910.0 - 2936.0

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
at 08:12 hrs 2002 03 23	2002 04 01	2002 04 04	SB		@ •

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	33,692	0.3811	1,465.5
K	759	0.0086	19.4
Ca	161	0.0018	8.0
Mg	50	0.0006	4.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	53,248	0.6024	1,501.9
Br			
I			
HCO_3	418	0.0047	6.8
SO_4	70	0.0008	1.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

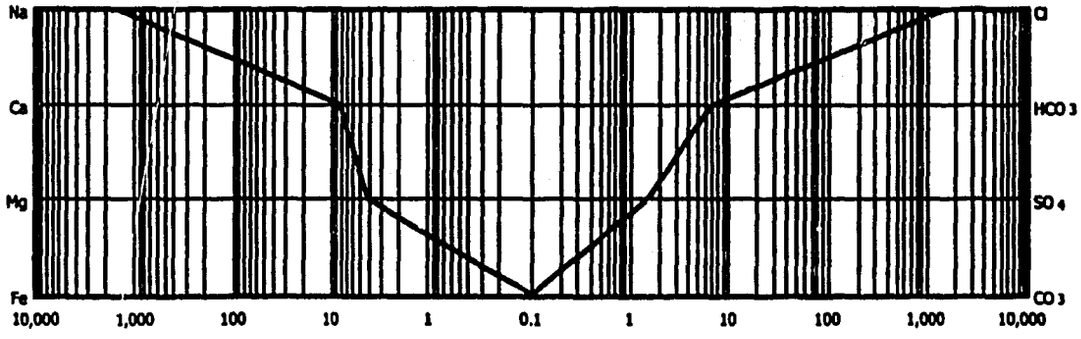
At Ignition	Calculated
	88398

Specific Gravity	Refractive Index
1.0611 @ 15.6 °C	1.3480 @ 21 °C

pH	Resistivity (Ohm-Meters)
6.2	0.085 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
358 - 3			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

WATER ____ m³/d — OIL ____ m³/d — GAS ____ m³/c

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — SEPARATOR — OTHER — Temperatures, °C

at 09:05 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 23	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	20,997	0.2718	913.3
K	5,121	0.0663	131.0
Ca	4,093	0.0530	204.3
Mg	572	0.0074	47.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	46,101	0.5969	1,300.3
Br			
I			
HCO_3	338	0.0044	5.5
SO_4	18	0.0002	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

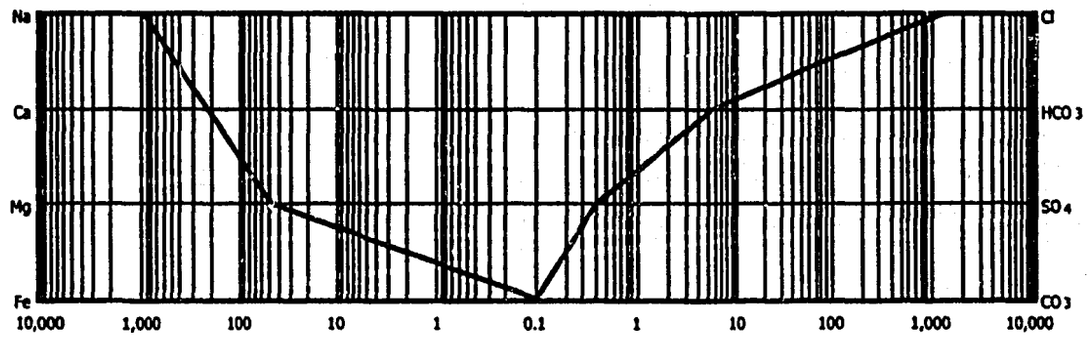
At Ignition	Calculated
	77240

Specific Gravity	Refractive Index
1.0542 @ 15.6 °C	1.3460 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.6	0.092 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

360 - 4			52136-2002-0924
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 4

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sulphur Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 21:20 hrs

2002 03 23	2002 04 01	2002 04 04	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	22,237	0.1350	967.3
K	3,033	0.0184	77.6
Ca	24,381	0.1480	1,216.6
Mg	9,047	0.0549	744.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	105,738	0.6418	2,982.5
Br			
I			
HCO_3	293	0.0018	4.8
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

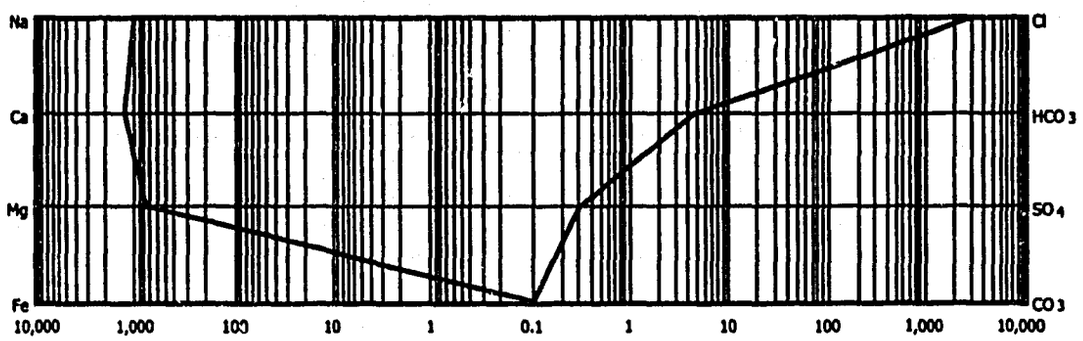
By Evaporation @ 110 °C	By Evaporation @ 180 °C

At Ignition	164743 Calculated

1.1239 @ 15.6 °C Specific Gravity	1.3662 @ 21 °C Refractive Index
5.1 pH	0.059 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
361 - 5			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 5

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR | OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
at 21:45 hrs 2002 03 23	2002 04 01	2002 04 04	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	24,199	0.1502	1,052.6
K	3,139	0.0195	80.3
Ca	21,325	0.1323	1,064.1
Mg	10,335	0.0641	850.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	101,855	0.6321	2,873.0
Br			
I			
HCO_3	274	0.0017	4.5
SO_4	13	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

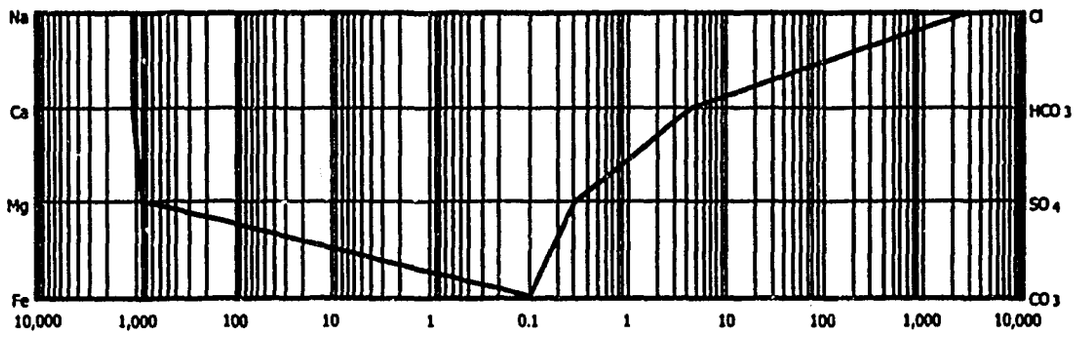
At Ignition	Calculated
	161140

Specific Gravity	Refractive Index
1.1207 @ 15.6 °C	1.3660 @ 21 °C

pH	Resistivity (Ohm-Meters)
5.1	0.060 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
362 - 6			52136-2002-0924

Paramount Resources Ltd. — OPERATOR

PAGE: 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.: | TEST RECOVERY:

Manifold — POINT OF SAMPLE | CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

WATER: m³/d | OIL: m³/d | GAS: m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 22:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 23	2002 04 01	2002 04 04	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	21,716	0.1410	944.6
K	3,162	0.0205	80.9
Ca	21,728	0.1411	1,084.2
Mg	8,995	0.0584	740.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	98,169	0.6374	2,769.0
Br			
I			
HCO_3	240	0.0016	3.9
SO_4	5.9	0.0000	0.1
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

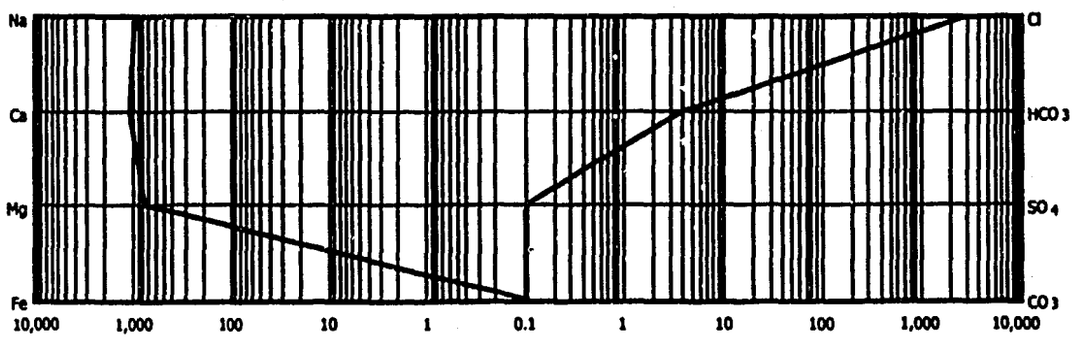
At Ignition	Calculated
	154016

Specific Gravity	Refractive Index
1.1199 @ 15.6 °C	1.3651 @ 21 °C

pH	Resistivity (Ohm-Meters)
5.0	0.060 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
364 - 7			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 7

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — CONTAINER WHEN SAMPLED @ °C — CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 08:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °
2002 03 25	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	26,688	0.1964	1,160.9
K	3,734	0.0275	95.5
Ca	11,129	0.0819	555.3
Mg	7,812	0.0575	642.9
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	86,103	0.6338	2,428.7
Br			
I			
HCO_3	366	0.0027	6.0
SO_4	24	0.0002	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

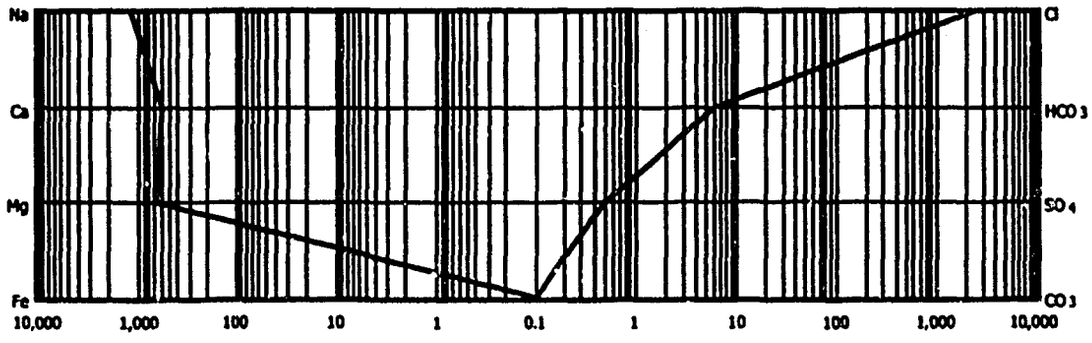
At Ignition	Calculated
	135856

Specific Gravity	Refractive Index
1.1023 @ 15.6 °C	1.3593 @ 21 °C

pH	Resistivity (Ohm-Meters)
6.0	0.063 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

Extended Gas Analysis

Core Lab
PETROLEUM SERVICES

EXTENDED GAS ANALYSIS

N.E.B. COPY

J-76

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0005624 - 1			52136-2002-0899

Paramount Resources Ltd. — OPERATOR

PAGE: 1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Lubricator

TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0

CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS 5700 m³/d

TEST INTERVAL or PERFS (meters): 3020

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED @ °C	CONTAINER WHEN RECEIVED @ 22 °C
				3188

Temperatures, °C

SEPARATOR	OTHER
5	

at 09:50 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °C
2002 03 21	2002 03 27	2002 03 29	MF		

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0001	0.0002	
He	0.0008	0.0009	
N_2	0.0220	0.0265	
CO_2	0.1699	0.0000	
H_2S	0.0020	0.0000	
C_1	0.8048	0.9719	
C_2	0.0004	0.0005	1.4
C_3	Trace	Trace	Trace
iC_4	Trace	Trace	Trace
C_4	Trace	Trace	Trace
iC_5	Trace	Trace	Trace
C_5	Trace	Trace	Trace
C_6	Trace	Trace	Trace
C_{7+}	Trace	Trace	Trace
Total	1.0000	1.0000	1.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
30.49	36.76

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C

PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
0.892 kg/m³	0.728	21.1

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
5049.1 kPa (abs)	208.7 K	4562.7 kPa (abs)	188.7 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	SUPER COMPRESSIBILITY
DENSITY kg/m³	MOLECULAR WEIGHT	@ 15°C ,101.325 kPa	@ 15°C ,101.325 kPa

REMARKS:

H2S determined in the field = 2000 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 00 PHYSICAL CONSTANTS.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
091 - 5			52136-2002-0899

Paramount Resources Ltd. — OPERATOR — PAGE 2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 23:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 20	2002 03 27	2002 04 04	BF		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	6,952	0.1299	302.4
K	2,897	0.0541	74.1
Ca	10,162	0.1899	507.1
Mg	1,294	0.0242	106.4
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	31,943	0.5969	901.0
Br			
I			
HCO_3	254	0.0047	4.2
SO_4	15	0.0003	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

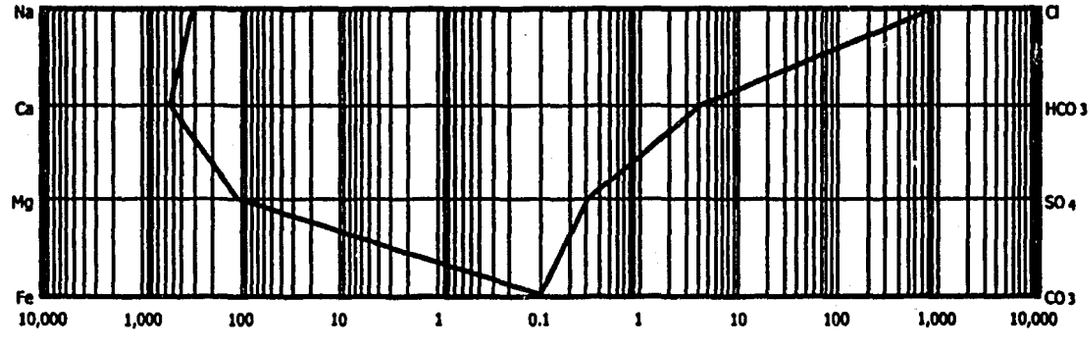
At Ignition	Calculated
	53517

Specific Gravity	Refractive Index
1.0377 @ 15.6 °C	1.3425 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.137 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

097 - 11			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 3
OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — CORE LAB SAMPLE POINT ID

POINT OF SAMPLE

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 23:35 hrs

2002 03 20	2002 03 27	2002 04 04	SB		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	714	0.0817	31.1
K	2,549	0.2916	65.2
Ca	706	0.0808	35.2
Mg	118	0.0134	9.7
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

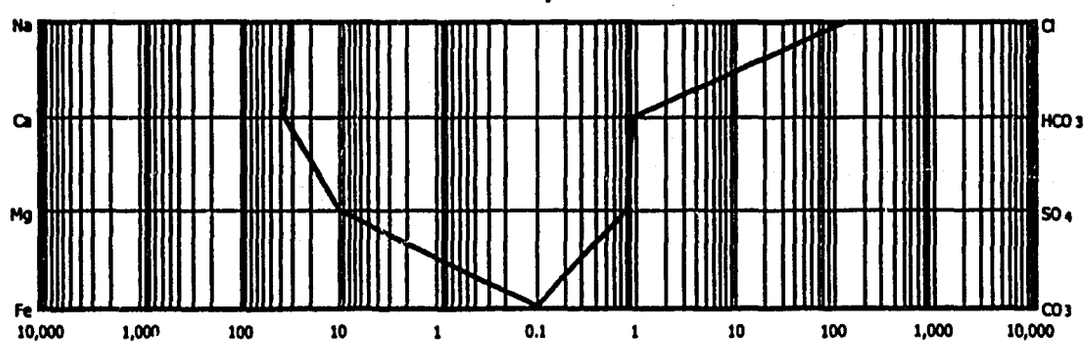
ION	mg/L	mg Fraction	meq/L
Cl	4,560	0.5216	128.6
Br			
I			
HCO_3	57	0.0065	0.9
SO_4	38	0.0044	0.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	8742 Calculated
1.0061 @ 15.6 °C Specific Gravity	1.3345 @ 20 °C Refractive Index
6.1 pH	0.687 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
094 - 8			52136-2002-0899

Paramount Resources Ltd. (OPERATOR) — PAGE 4

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0 — CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

TEST INTERVAL or PERFS (meters)

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED — Pressures, kPa (gauge)

SEPARATOR | OTHER — Temperatures, °C

at 05:40 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	566	0.0711	24.6
K	2,579	0.3238	66.0
Ca	367	0.0461	18.3
Mg	54	0.0067	4.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	4,038	0.5070	113.9
Br			
I			
HCO_3	275	0.0345	4.5
SO_4	86	0.0107	1.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

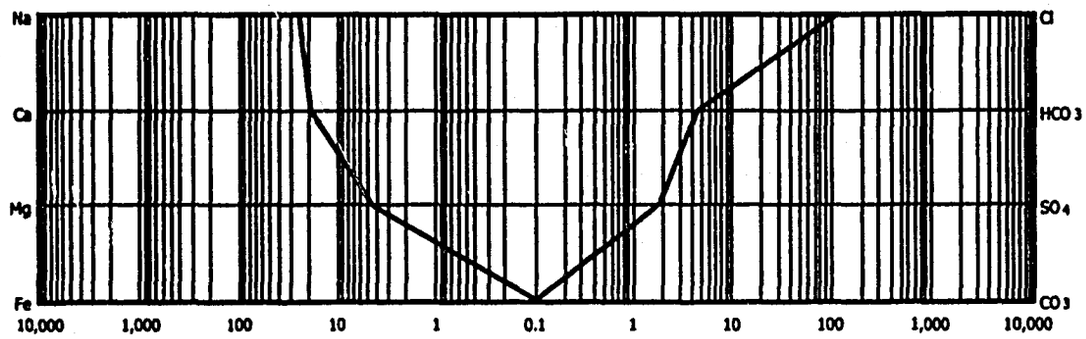
At Ignition	Calculated
	7965

Specific Gravity	Refractive Index
1.0064 @ 15.6 °C	1.3349 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.5	0.714 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

089 - 3			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd.	5
OPERATOR	PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. | TEST RECOVERY

Manifold

POINT OF SAMPLE | CORE LAB SAMPLE POINT ID

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) at 10:00 hrs

SEPARATOR | OTHER

Temperatures, °C

2002 03 21	2002 03 27	2002 04 04	BF		@ ·
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	10,382	0.2541	451.6
K	2,596	0.0635	66.4
Ca	3,202	0.0784	159.8
Mg	433	0.0106	35.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

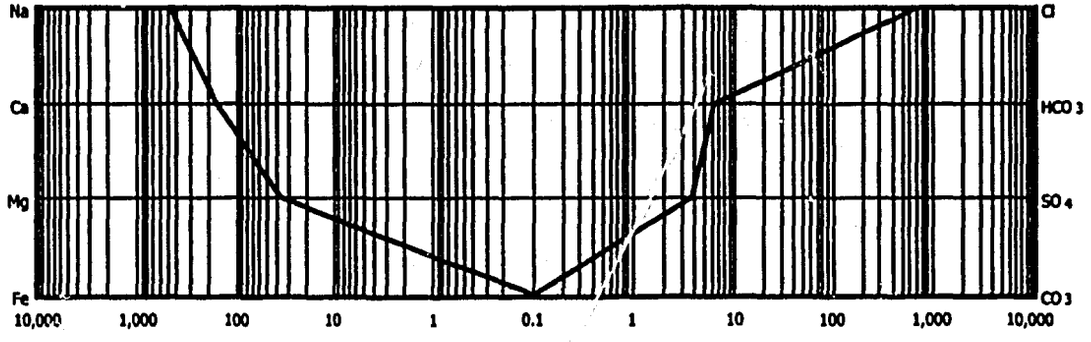
ION	mg/L	mg Fraction	meq/L
Cl	23,689	0.5798	668.2
Br			
I			
HCO_3	377	0.0092	6.2
SO_4	180	0.0044	3.7
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	40859 Calculated
1.0297 @ 15.6 °C Specific Gravity	1.3400 @ 19 °C Refractive Index
5.9 pH	0.162 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
088 - 2			52136-2002-0899

Paramount Resources Ltd. (OPERATOR) — PAGE: 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0, 2885.0 - 2894.0, 2910.0 - 2936.0 — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR | OTHER

at 10:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,063	0.2591	481.2
K	2,634	0.0617	67.4
Ca	3,102	0.0726	154.8
Mg	585	0.0137	48.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	24,730	0.5792	697.5
Br			
I			
HCO_3	404	0.0095	6.6
SO_4	181	0.0042	3.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

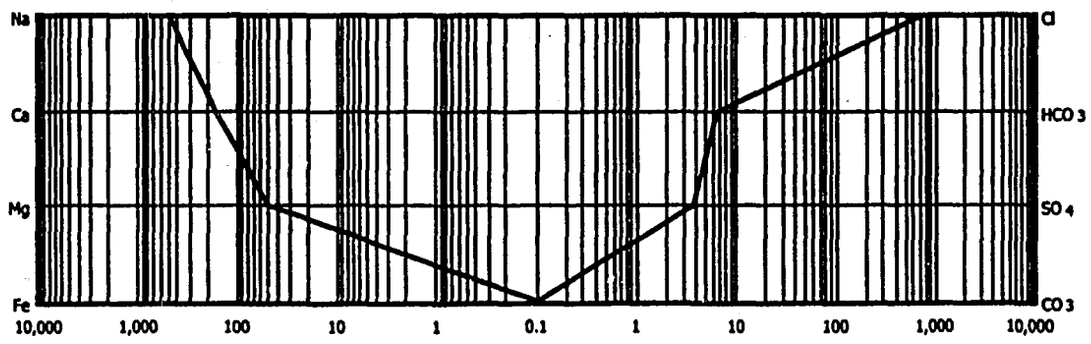
At Ignition	Calculated
	42699

Specific Gravity	Refractive Index
1.0306 @ 15.6 °C	1.3410 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.157 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
093 - 7			52136-2002-0899

Paramount Resources Ltd. — OPERATOR — PAGE 7

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0

CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

TEST INTERVAL or PERFS (meters)

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 10:16 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	9,900	0.2403	430.6
K	2,652	0.0644	67.8
Ca	3,306	0.0802	165.0
Mg	435	0.0106	35.8
Ba			
Sr			
Fe			
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	24,066	0.5841	678.8
Br			
I			
HCO_3	642	0.0156	10.5
SO_4	202	0.0049	4.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

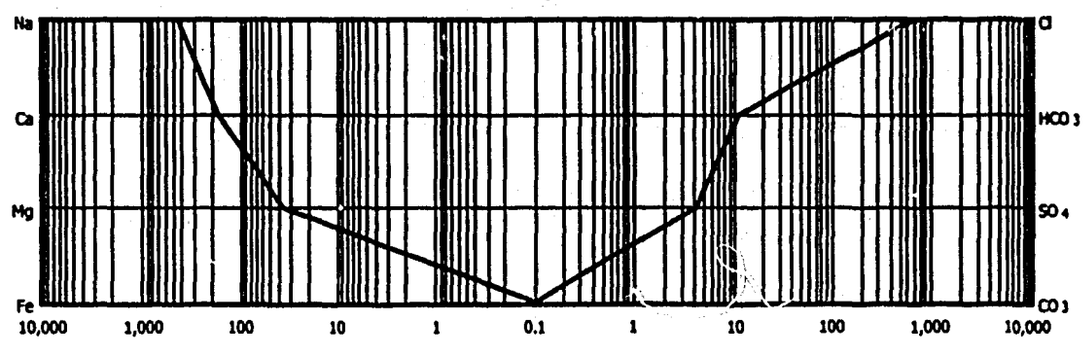
At Ignition	Calculated
	41203

Specific Gravity	Refractive Index
1.0298 @ 15.6 °C	1.3400 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.160 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

DEPTH	%	DESCRIPTION
		TOP ARNICA: Drilled: 3150m MD. **Logs: 3153.5m MD. -2736m SS.**
3150-3155	100	DOLOMITE: mottled grey and dark grey, white translucent common. Mudstone/Packstone, grain remnant predominantly indistinct re-crystallized, fine to medium grain in part, non sucrosic, white translucent coarse sparry common (predominantly occurring as fracture and vein fill), common medium to dark grey slight argillaceous, predominantly tight with occasional rhombic lined vuggy and fracture porosity, loose Dolomite rhombs common, estimate <3% porosity, no shows.
3155-3160	100	DOLOMITE: Mudstone; predominantly buff to medium grey, dark grey to black in part, predominantly very fine to fine crystalline, crypto oil micro in part, non sucrosic, common dark grey to black slight bitumen argillaceous, tight to poor porosity, <3%, scattered white translucent sparry Dolomite in filling fracture and vein, occasional rhombic lined vuggy or fracture, trace drusy Quartz, no show.
3160-3165	100	DOLOMITE: as above with occasional Wackestone/Packstone, Dolomite becoming sub sucrosic in part, abundant dark grey to black slight argillaceous, increase porosity, estimate up to 3% in part, no shows, as above.
3165-3170	100	DOLOMITE: buff to medium grey, minor dark grey argillaceous, appears as re-crystallized Packstone/Grainstone, grain remnant predominantly indistinct, predominantly fine to medium crystalline, minor micro to very fine crystalline, non to sub sucrosic, minor slight argillaceous, tight to poor porosity, estimate <3%, minor white sparry Dolomite fracture fill and vein, occasional rhombic lined vug or fracture, no shows.
3170-3175		As above.
3175-3180	100	DOLOMITE: as above with abundant micro very fine crystalline sub sucrosic to sucrosic, tight to poor porosity, some inter crystalline porosity present.
3180-3185	80 20	DOLOMITE: as above with dark grey to black slight argillaceous common. DOLOMITE: buff to light tan and medium grey, Mudstone, predominantly crypto crystalline, micro in part, lithographic in part, slight argillaceous, dense, tight, no shows.
3185-3190	100	DOLOMITE: buff to light tan and medium to dark grey brown, Mudstone/Wackestone with minor Packstone, predominantly very fine to lower fine crystalline, non to sub sucrosic, crypto crystalline dense in part, dark grey slight argillaceous in part, tight to poor porosity <3%, occasional drusy Calcite lined open fracture, rare rhombic lined vuggy, some inter crystalline porosity, no show.
3190-3195		As above, with minor dark brown grey, common very fine crystalline sucrosic, occasional fracture, tight to poor fracture and inter crystalline porosity.
3195-3200	100	DOLOMITE: buff to medium grey, common dark grey, predominantly Mudstone/Wackestone, minor Packstone, grain remnant indistinct, predominantly micro to very fine crystalline non to sub sucrosic, crypto crystalline in part, slight argillaceous in part, occasional white translucent sparry Dolomite fracture fill, trace drusy Calcite open fracture, tight to trace porosity no show.
3200-3205		As above.
3205-3210	100	DOLOMITE: Mudstone/Wackestone as above with abundant dark grey slight argillaceous, common crypto crystalline dense, minor fracture, as above.

DEPTH	%	DESCRIPTION
3210-3215	100	DOLOMITE: buff to medium and dark grey, Mudstone dominant, minor Wackestone/Packstone, crypto to micro crystalline, non sucrosic, dark grey slight argillaceous in part, abundant floating fine to medium rounded Quartz grain, trace disseminated pyrite, tight to poor porosity, common subhedral to euhedral Calcite lining and in filling fracture, no shows.
		TOP BEAR ROCK: Drilled: 3217m MD. Logs: 3220m MD.
3215-3220		As above, Dolomite calcareous limy in part, occasional floating sand grain as above, trace dark grey dolomitic Shale stringer.
3220-3225	100	DOLOMITE: common dark grey slight argillaceous, occasional floating sand grain, common Calcite lining and infilling porosity, no Shale, as above.
3225-3230		As above, with rare floating sand grain, minor dark grey slight argillaceous.
3230-3235	100	DOLOMITE: buff to medium and dark grey brown, grey in part, Mudstone with occasional Wackestone/Packstone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous limy in part, dark grey slight argillaceous in part, tight to trace porosity, common clear to white subhedral to euhedral Calcite lining and in filling fracture, no shows, rare trace Shale stringer.
3235-3240	100	DOLOMITE: buff to grey and medium dark to dark grey, abundant white translucent sparry (fracture fill), Mudstone dominant, minor Wackestone/Packstone, predominantly crypto to micro crystalline, common very fine to fine, calcareous in part, common dark grey slight argillaceous, tight to poor porosity, up to 3%, abundant white translucent sparry Dolomite fracture fill, common clear to white anhedral to euhedral Calcite and Quartz lining and in filling fracture, no shows.
3240-3245	100	DOLOMITE: as above with Wackestone common, occasional medium to coarse rhombic lined open fracture, possible streak to 6% porosity, no shows.
3245-3250	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, minor Wackestone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous in part, minor dark grey argillaceous, poor fracture porosity, estimate streak up to 3%, occasional anhedral to euhedral Calcite lining and infilling fracture, trace drusy Quartz, abundant white translucent sparry Dolomite in filling fracture, loose rhombs common, no show.
3250-3255		As above, occasional disseminated Pyrite.
3255-3260		All as above.
3260-3265	100	DOLOMITE: as above with predominantly crypto crystalline, micro crystalline sub sucrosic in part, decrease white translucent sparry Dolomite, trace drusy Calcite, rare Quartz, as above.
3265-3270	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, minor Wackestone, crypto to micro crystalline, non to sub micro sucrosic in part, calcareous in part, minor dark grey argillaceous, poor fracture porosity, estimate streak up to 3%, rare anhedral to euhedral Calcite lining and infilling fracture, trace drusy Quartz, abundant white translucent sparry Dolomite in filling fracture, loose rhombs common, no show.
3270-3275		All as above.
3275-3280		As above with decrease white sparry Dolomite, occasional rhombic lined fracture, < 3% porosity, as above.

DEPTH	%	DESCRIPTION
3280-3285	100	DOLOMITE: buff to medium brown grey, minor dark grey, slight argillaceous, Mudstone, occasional Wackestone, predominantly crypto crystalline, minor micro crystalline sub sucrosic, calcareous in part, occasional dark grey slight argillaceous, tight to trace porosity, common white translucent sparry Dolomite in filling fracture, trace rhombic lined open fracture, no show.
3285-3290		As above, occasional disseminated Pyrite.
3290-3295		As above, with trace drusy Quartz.
3295-3300	100	DOLOMITE: buff to medium brown grey, minor dark grey, Mudstone, common Wackestone, crypto to micro crystalline, common micro sucrosic, calcareous in part, minor dark grey slight argillaceous, trace disseminated pyrite, poor fracture porosity, common white translucent sparry Dolomite in filling fracture, minor loose rhombs, trace drusy Quartz, no show.
3300-3305	100	DOLOMITE: predominantly crypto crystalline, minor micro crystalline, common medium dark to dark grey argillaceous, tight to trace porosity, as above.
3305-3310		As above, occasional micro to very fine crystalline sucrosic, trace inter crystalline porosity, trace floating fine to medium rounded quartz grain, minor fracture.
3310-3315		As above, with minor argillaceous, minor fracture, trace floating sand grain, as above.
3315-3320	100	DOLOMITE: buff to medium grey, Mudstone, lithographic to crypto crystalline, sub chalky calcareous in part, slight argillaceous to argillaceous in part, abundant floating fine to lower coarse sub rounded to rounded clear Quartz sand grain, predominantly tight with trace anhedral to euhedral Calcite lining and in filling fracture, no show.
3320-3325	100	DOLOMITE: buff to medium brown grey, Mudstone, crypto crystalline, minor lithographic, calcareous, sub chalky in part, minor slight argillaceous, predominantly dense tight with occasional drusy Calcite lining and in filling fracture and vein, no shows.
3325-3330	100	DOLOMITE: predominantly medium dark to dark brown grey, buff in part, Mudstone, predominantly lithographic to crypto crystalline, occasional micro to lower very fine crystalline sub sucrosic, calcareous in part, slight argillaceous to argillaceous in part, predominantly dense tight, common subhedral to euhedral Calcite lining and in filling fracture, trace open fracture, trace white sparry Dolomite.
3330-3335		As above.
3335-3340		As above, with common dark grey argillaceous, occasional floating sand grain as above, common Calcite fracture fill and vein, trace open fracture.
3340-3345	100	DOLOMITE: predominantly medium to dark brown grey, buff to tan in part, predominantly Mudstone with occasional Wackestone/Packstone, occasional medium grain, lithographic to crypto crystalline, common dark grey argillaceous, slight calcareous in part, common floating sub rounded to rounded clear Quartz sand grain, trace disseminated pyrite, tight to trace fracture porosity, common anhedral to subhedral Calcite fracture fill, trace euhedral Calcite lined open fracture, occasional sparry Dolomite in fill, no shows.
3345-3350	100	DOLOMITE: as above with abundant floating fine to lower coarse sub rounded to rounded clear Quartz sand grain, common white translucent coarse sparry Dolomite in filling fracture, trace rhombic lined open fracture, no shows.

FTD: Driller: 3350m MD
Logger: 3353.5m MD. -2936m SS.

DIRECTIONAL SURVEYS

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	46.90	0.02	242.50	46.90	-0.00	-0.01	0.00	0.01
2	69.60	0.30	250.00	69.60	-0.03	-0.07	-0.01	0.37
3	97.30	0.20	260.00	97.30	-0.06	-0.18	-0.03	0.12
4	134.40	0.30	246.20	134.40	-0.11	-0.34	-0.05	0.09
5	162.80	0.70	239.90	162.80	-0.23	-0.55	-0.04	0.43
6	190.90	0.70	236.20	190.90	-0.41	-0.84	-0.00	0.05
7	219.30	0.90	242.70	219.29	-0.61	-1.19	0.03	0.23
8	266.00	1.00	246.30	265.99	-0.94	-1.89	0.02	0.08
9	295.10	1.00	247.70	295.08	-1.14	-2.35	-0.00	0.02
10	323.60	1.00	259.80	323.58	-1.28	-2.83	-0.09	0.22
11	351.50	1.00	260.60	351.47	-1.36	-3.31	-0.22	0.00
12	380.70	1.20	266.70	380.67	-1.42	-3.86	-0.41	0.24
13	399.40	1.30	253.50	399.36	-1.49	-4.26	-0.52	0.49
14	427.70	0.80	243.50	427.66	-1.67	-4.75	-0.57	0.56
15	455.90	0.80	230.90	455.86	-1.88	-5.08	-0.52	0.19
16	484.00	0.80	236.70	483.95	-2.11	-5.39	-0.45	0.08
17	521.60	0.80	246.10	521.55	-2.36	-5.85	-0.43	0.10
18	549.60	0.70	252.90	549.55	-2.49	-6.19	-0.46	0.14
19	578.10	0.50	260.30	578.05	-2.56	-6.48	-0.52	0.23
20	606.20	0.40	263.80	606.15	-2.60	-6.70	-0.59	0.11
21	652.50	0.40	236.80	652.44	-2.70	-7.00	-0.63	0.12
22	699.90	0.20	230.80	699.84	-2.84	-7.20	-0.59	0.13
23	746.90	0.40	217.00	746.84	-3.03	-7.36	-0.49	0.13
24	785.40	0.30	205.10	785.34	-3.23	-7.49	-0.37	0.10
25	832.20	0.40	247.70	832.14	-3.40	-7.69	-0.30	0.17
26	879.70	0.50	244.60	879.64	-3.55	-8.03	-0.31	0.06
27	925.90	0.30	254.00	925.84	-3.67	-8.33	-0.33	0.14
28	962.90	0.50	247.70	962.84	-3.76	-8.57	-0.36	0.17
29	1009.00	0.70	239.70	1008.94	-3.98	-9.00	-0.35	0.14
30	1037.30	0.50	221.00	1037.23	-4.16	-9.23	-0.29	0.29
31	1075.40	0.50	238.60	1075.33	-4.37	-9.48	-0.21	0.12
32	1113.00	0.80	252.50	1112.93	-4.53	-9.87	-0.23	0.27
33	1140.80	0.10	279.80	1140.73	-4.59	-10.08	-0.27	0.77
34	1188.10	1.00	295.30	1188.03	-4.40	-10.49	-0.62	0.57
35	1216.90	0.40	238.70	1216.82	-4.35	-10.81	-0.81	0.88
36	1246.10	0.40	146.40	1246.02	-4.49	-10.84	-0.70	0.59
37	1275.10	0.60	164.70	1275.02	-4.72	-10.74	-0.45	0.26
38	1312.40	0.60	203.30	1312.32	-5.09	-10.77	-0.13	0.32
39	1340.40	0.90	226.40	1340.32	-5.37	-10.99	0.04	0.45
40	1349.70	1.20	229.20	1349.62	-5.49	-11.11	0.08	0.98
41	1368.50	1.80	206.60	1368.41	-5.88	-11.39	0.31	1.33
42	1377.70	2.10	219.80	1377.60	-6.14	-11.57	0.47	1.76

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
43	1387.40	2.30	238.20	1387.30	-6.38	-11.84	0.56	2.26
44	1406.30	1.10	234.00	1406.19	-6.68	-12.31	0.64	1.91
45	1415.50	1.00	149.00	1415.39	-6.80	-12.34	0.73	4.63
46	1434.50	3.00	106.00	1434.38	-7.08	-11.78	1.23	3.74
47	1443.70	3.20	100.60	1443.56	-7.20	-11.30	1.54	1.16
48	1453.40	2.90	95.00	1453.25	-7.27	-10.79	1.83	1.31
49	1463.00	2.70	92.60	1462.84	-7.30	-10.32	2.06	0.73
50	1472.31	2.70	91.90	1472.14	-7.32	-9.88	2.27	0.11
51	1491.20	2.50	90.50	1491.01	-7.33	-9.02	2.66	0.33
52	1519.80	2.20	102.80	1519.58	-7.46	-7.86	3.28	0.61
53	1529.10	2.20	101.40	1528.88	-7.54	-7.52	3.50	0.17
54	1547.60	2.10	95.20	1547.36	-7.64	-6.83	3.89	0.41
55	1576.10	2.20	84.40	1575.84	-7.63	-5.77	4.35	0.44
56	1604.30	2.00	69.60	1604.03	-7.41	-4.77	4.58	0.61
57	1623.10	2.00	65.60	1622.81	-7.16	-4.16	4.62	0.22
58	1641.80	2.00	67.60	1641.50	-6.90	-3.56	4.65	0.11
59	1670.30	2.10	61.00	1669.98	-6.46	-2.64	4.65	0.27
60	1698.10	2.00	54.70	1697.77	-5.93	-1.80	4.55	0.27
61	1726.20	1.60	63.30	1725.85	-5.47	-1.05	4.46	0.51
62	1754.30	1.90	52.40	1753.94	-5.01	-0.33	4.36	0.48
63	1782.50	1.90	56.20	1782.12	-4.46	0.43	4.20	0.13
64	1810.60	1.70	72.00	1810.21	-4.07	1.21	4.19	0.57
65	1829.00	1.70	73.60	1828.60	-3.91	1.73	4.28	0.07
66	1856.80	2.20	67.30	1856.39	-3.59	2.62	4.37	0.59
67	1866.50	2.70	61.80	1866.08	-3.41	2.99	4.38	1.71
68	1875.90	3.50	56.40	1875.46	-3.15	3.43	4.33	2.72
69	1885.00	3.60	50.20	1884.55	-2.81	3.88	4.22	1.31
70	1913.00	1.70	343.80	1912.52	-1.85	4.44	3.60	3.54
71	1922.70	1.60	347.30	1922.22	-1.58	4.37	3.33	0.44
72	1941.20	1.50	2.20	1940.71	-1.09	4.32	2.86	0.67
73	1959.60	1.40	5.40	1959.10	-0.62	4.35	2.46	0.21
74	1987.80	1.50	4.30	1987.29	0.09	4.41	1.84	0.11
75	2007.10	1.50	7.40	2006.59	0.59	4.46	1.41	0.13
76	2026.20	1.40	9.90	2025.68	1.07	4.53	1.02	0.18
77	2045.50	1.30	10.60	2044.98	1.52	4.61	0.65	0.16
78	2073.20	1.20	27.30	2072.67	2.08	4.81	0.22	0.41
79	2110.70	1.00	54.40	2110.16	2.62	5.25	-0.07	0.44
80	2138.90	1.00	54.20	2138.36	2.91	5.65	-0.15	0.00
81	2167.40	1.20	64.00	2166.85	3.19	6.12	-0.19	0.29
82	2196.00	0.50	115.00	2195.45	3.27	6.50	-0.10	1.01
83	2224.00	0.70	104.60	2223.45	3.17	6.78	0.11	0.24
84	2251.60	0.80	111.90	2251.05	3.06	7.12	0.36	0.15
85	2279.80	0.50	111.90	2279.25	2.94	7.42	0.60	0.32
86	2308.10	0.60	100.60	2307.54	2.86	7.68	0.78	0.16
87	2336.30	1.10	101.10	2335.74	2.78	8.09	1.03	0.53

PARAMOUNT ANADARKO BOVIE J-76

#	Depth (m)	Angle	Azimuth	TVD (m)	N/S (m)	E/W (m)	Section (m)	DogLeg (/30)
88	2364.60	1.50	64.90	2364.03	2.89	8.69	1.20	0.95
89	2374.10	1.70	67.30	2373.53	3.00	8.93	1.20	0.66
90	2383.00	1.30	74.30	2382.43	3.08	9.15	1.23	1.48
91	2411.60	0.90	239.30	2411.03	3.05	9.27	1.31	2.29
92	2430.50	0.60	232.80	2429.92	2.91	9.07	1.34	0.49
93	2458.30	0.70	216.20	2457.72	2.69	8.85	1.45	0.23
94	2486.40	1.10	210.50	2485.82	2.32	8.61	1.68	0.44
95	2505.50	1.20	227.60	2504.91	2.02	8.37	1.83	0.56
96	2524.00	1.30	232.30	2523.41	1.76	8.06	1.93	0.23
97	2552.00	2.10	244.80	2551.40	1.35	7.35	1.99	0.94
98	2580.50	2.70	243.50	2579.87	0.83	6.27	1.99	0.63
99	2599.60	3.00	235.90	2598.95	0.35	5.46	2.07	0.76
100	2609.10	2.80	242.50	2608.44	0.10	5.04	2.11	1.23
101	2618.80	2.20	242.80	2618.13	-0.09	4.67	2.12	1.86
102	2638.30	2.10	232.50	2637.61	-0.48	4.05	2.20	0.61
103	2648.00	2.40	228.90	2647.31	-0.72	3.76	2.29	1.03
104	2657.80	2.30	230.40	2657.10	-0.98	3.45	2.39	0.36
105	2676.20	1.90	196.90	2675.49	-1.51	3.08	2.70	2.07
106	2702.00	1.70	203.20	2701.27	-2.27	2.80	3.27	0.33
107	2790.00	1.50	201.10	2789.24	-4.54	1.88	4.91	0.07
108	2816.20	1.40	202.50	2815.43	-5.16	1.63	5.35	0.12
109	2854.60	1.40	198.80	2853.82	-6.04	1.30	6.00	0.07
110	2868.00	1.60	203.30	2867.21	-6.36	1.17	6.24	0.52
111	2883.10	1.10	210.70	2882.31	-6.68	1.01	6.45	1.05
112	2940.70	0.80	202.70	2939.90	-7.53	0.58	7.03	0.17
113	2969.40	0.50	211.70	2968.60	-7.82	0.43	7.22	0.33
114	2998.40	0.50	350.00	2997.60	-7.80	0.35	7.17	0.97
115	3055.90	0.30	356.00	3055.10	-7.41	0.29	6.79	0.11
116	3085.10	0.10	108.80	3084.30	-7.34	0.31	6.74	0.36
117	3113.40	0.40	101.10	3112.60	-7.37	0.43	6.81	0.32
118	3142.30	0.70	86.20	3141.50	-7.37	0.71	6.94	0.34
119	3169.90	1.20	94.20	3169.09	-7.38	1.16	7.15	0.56
120	3189.70	0.80	105.90	3188.89	-7.44	1.50	7.35	0.68
121	3218.60	1.00	113.70	3217.79	-7.59	1.93	7.67	0.24
122	3255.70	0.80	94.70	3254.88	-7.74	2.48	8.05	0.29
123	3333.00	0.70	65.10	3332.18	-7.59	3.45	8.33	0.15
Bit*	3350.00	0.70	65.10	3349.17	-7.50	3.64	8.34	0.00

* Extraplolated to TD.

LITHOLOGY STRIP LOG
WellSight Systems Inc.
Scale 1:240 (5"=100') Metric

Well Name: PARAMOUNT ANADARKO BOVIE J76
Location: Unit: J, Section: 76 NWT
Licence Number: 1931
Spud Date: 0800 hr. 12/22/01
Surface Coordinates: 60° 35' North / 122° 48' West

Region: Fort Liard, NWT
Drilling Completed: 1800 hr. 02/05/02

Bottom Hole Coordinates:
Ground Elevation (m): 412.0 **K.B. Elevation (m):** 417.3
Logged Interval (m): 2145 To: 3350 **Total Depth (m):** 3350
Formation: Bear Rock
Type of Drilling Fluid: Invert 2145-2810, Gel Chem, 2810 to FTD.

Printed by WellSight Log Viewer from WellSight Systems Inc. 1-800-447-1634 www.wellsight.com

OPERATOR

Company: PARAMOUNT RESOURCES LTD.
Address: 4700 Bankers Hall West
888 3rd Street S.W.
Calgary, Alberta T2P 5C5

GEOLOGIST

Name: Dan Taylor
Company: D.F. TAYLOR CONSULTING LTD.
Address: 4316 Grovehill Road S.W.
Calgary, Alberta T3E 4E6

DSTs

DST #1: From: 2868m to 2885m
Formation: Slave Point.
(No Penetration)

Comments

TD Driller: 3350.0m
TD Logger: 3353.6m

NOTE: Gamma Curve offset 3.5m to correlate w/ drilled depth.

ROCK TYPES

Anhy, Bent, Brec, Chl, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mrist, Salt, Shale, Shcol, Shgy, Sltst, Ss, Till, Blank

ACCESSORIES

MINERAL: Anhy, Anggm, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chrtfk, Chrt, Dol, Feldspar, Ferrpel, Fer, Glau, Gyp, Hrystn, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff

FOSSIL: Algae, Amph, Bafm, Blastpt, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelsp, Pellet, Piscolite, Plant, Strom

STRINGER: Anhy, Arg, Bent, Coal

TEXTURE: Boundst, Chalky, Crystln, Earthy, Flnestn, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

OTHER SYMBOLS

POROSITY TYPE: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

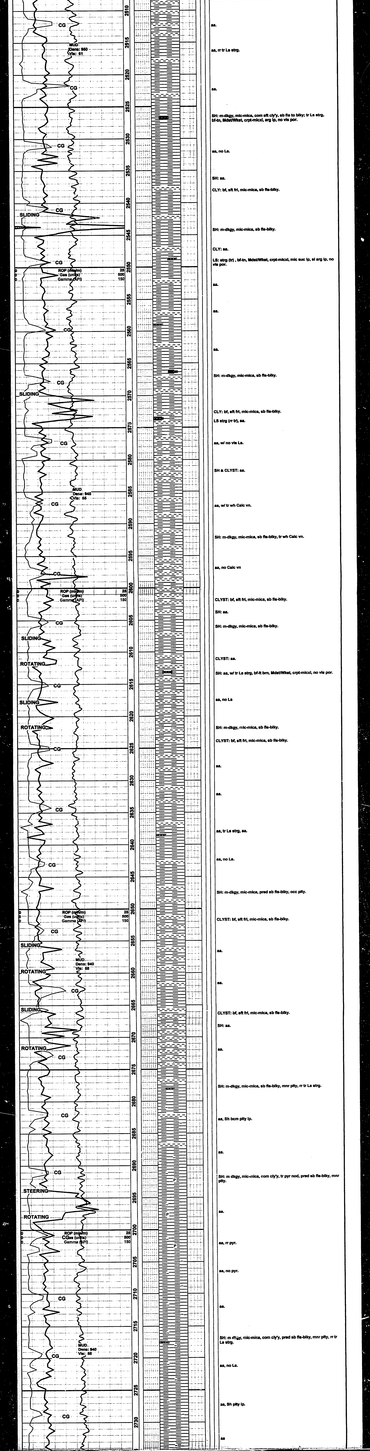
SORTING: Well, Moderate, Poor

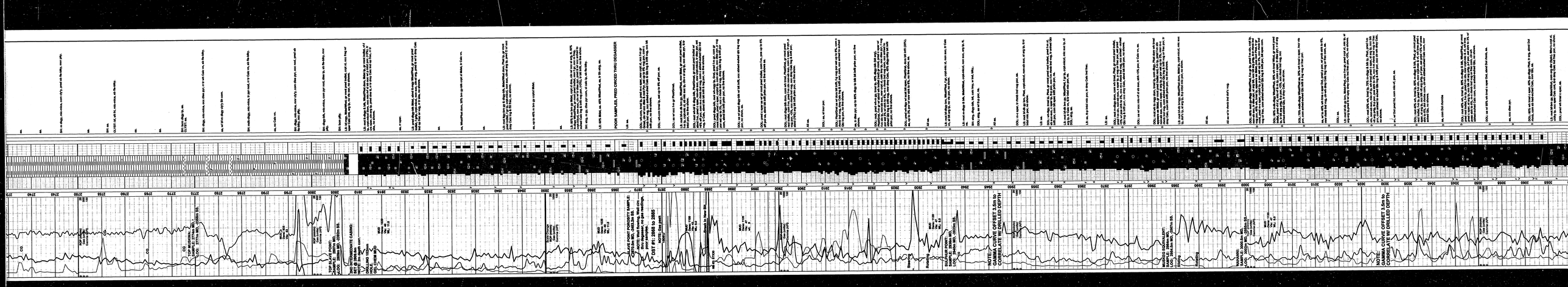
ROUNDING: Rounded, Subrnd, Subang, Angular

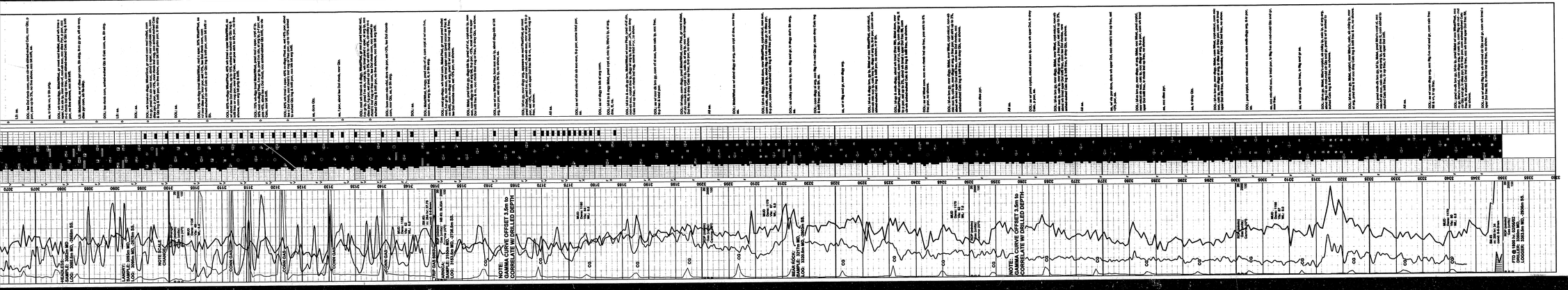
OIL SHOWS: Even, Spotted, Ques, Dull

EVENTS: RR, Sidewall

INTERVALS: None, Core, Dst




TOP SLANT POINT:
2,240' (2,231.3m MD)
2,237m SS.
2ND INTERMEDIATE CASING:
TVDF: 2m SS.
2,240' (2,231.3m MD)
2,237m SS.
TOP RESERVOIR:
LOG: 2777m MD, -2536m SS.
SLANT POINT FORCEFIT SAMPLE:
Core/Log MD: 2483.2m SS.
Core/Log TVD: 2483.2m SS.
Strong gas response, no gas readings.
DST #1: 2868 to 2885
NOTE: Slug pack
Shale to Shale
Sandstone
Shale
Sandstone
Shale
Sandstone


NOTE: GAMMA CURVE OFFSET 3.6m to CORRELATE W/ DRILLED DEPTH
NOTE: GAMMA CURVE OFFSET 3.6m to CORRELATE W/ DRILLED DEPTH
HEALEY: 3000m MD, -3000m SS.
LARBRY: 3034m MD, -3034m SS.
COORONG
COORONG
COORONG

PROPOSED WELLSITE PLAN

OVERSIZED

DOCUMENT

FILMED

ON

35mm

WATER ANALYSIS

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
050 - 6			52136-2002-0743

Paramount Resources Ltd. — OPERATOR

1 — PAGE

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #1

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 05	2002 03 13	2002 03 23	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	117	0.0119	5.1
K	5,037	0.5140	128.8
Ca	64	0.0065	3.2
Mg	18	0.0018	1.5
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	4,309	0.4397	121.5
Br			
I			
HCO_3	185	0.0189	3.0
SO_4	70	0.0072	1.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

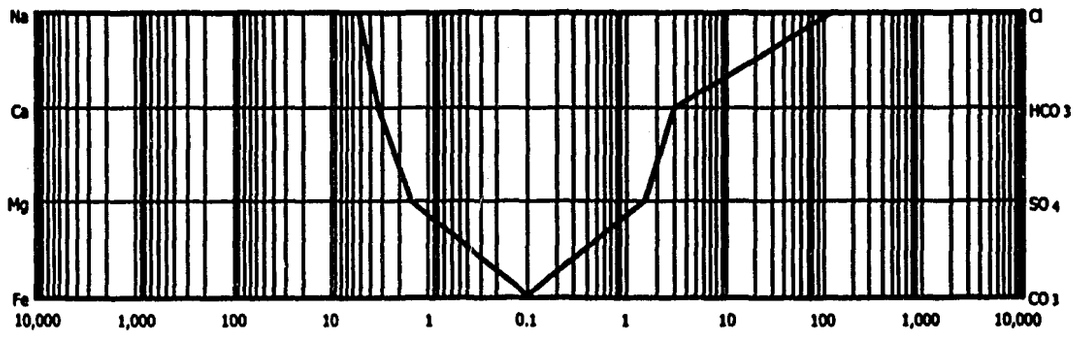
At Ignition	Calculated
	9800

Specific Gravity	Refractive Index
1.0059 @ 15.6 °C	1.3335 @ 18 °C

pH	Resistivity (Ohm-Meters)
7.2	0.631 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

051 - 8			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 2

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #4

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:40 hrs

2002 03 05	2002 03 13	2002 03 23	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	202	0.0066	8.8
K	15,131	0.4925	387.0
Ca	106	0.0035	5.3
Mg	26	0.0009	2.2
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

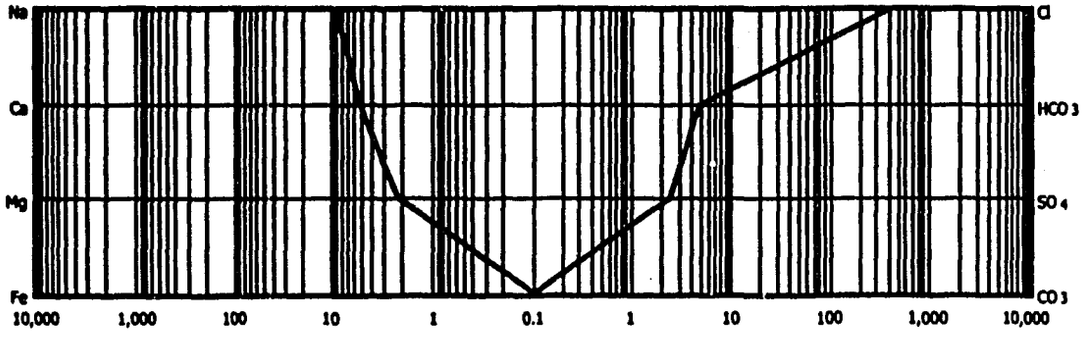
ION	mg/L	mg Fraction	meq/L
Cl	14,851	0.4834	418.9
Br			
I			
HCO_3	286	0.0093	4.7
SO_4	118	0.0038	2.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	30720 Calculated
1.0181 @ 15.6 °C Specific Gravity	1.3380 @ 18 °C Refractive Index
7.6 pH	0.214 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
046 - 2			52136-2002-0743

Paramount Resources Ltd. — OPERATOR — PAGE 3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #1 — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters): 3095.0 - 3115.0, 3125.0 - 3135.0

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

Pressures, kPa (gauge) at 07:50 hrs: SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR — OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 07	2002 03 13	2002 03 23	MN		@ •

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,042	0.1286	480.3
K	14,123	0.1645	361.2
Ca	8,045	0.0937	401.4
Mg	2,598	0.0303	213.7
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

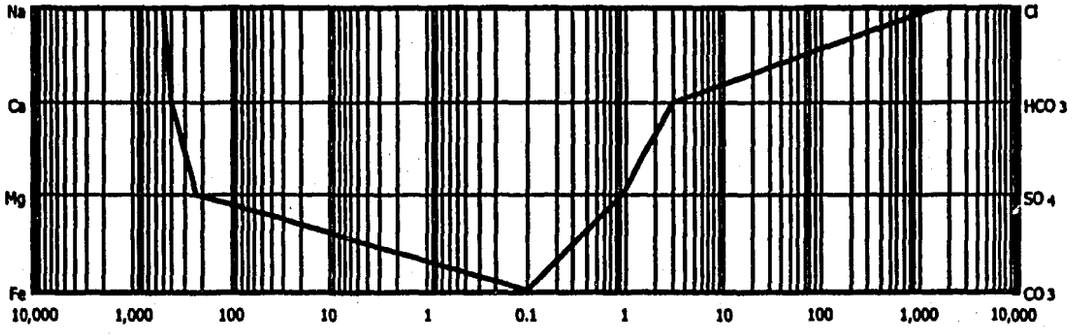
ION	mg/L	mg Fraction	meq/L
Cl	49,817	0.5803	1,405.2
Br			
I			
HCO_3	185	0.0022	3.0
SO_4	42	0.0005	0.9
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	Calculated
	85852
1.0621 @ 15.6 °C	1.3485 @ 18 °C
Specific Gravity	Refractive Index
5.1	0.086 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

047 - 3			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 4

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO.: Manifold Swab #2 — TEST RECOVERY

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 08:20 hrs

2002 03 07	2002 03 13	2002 03 23	MN		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	279	0.0078	12.1
K	17,697	0.4952	452.6
Ca	143	0.0040	7.1
Mg	34	0.0010	2.8
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	17,216	0.4817	485.6
Br			
I			
HCO_3	232	0.0065	3.8
SO_4	139	0.0039	2.9
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

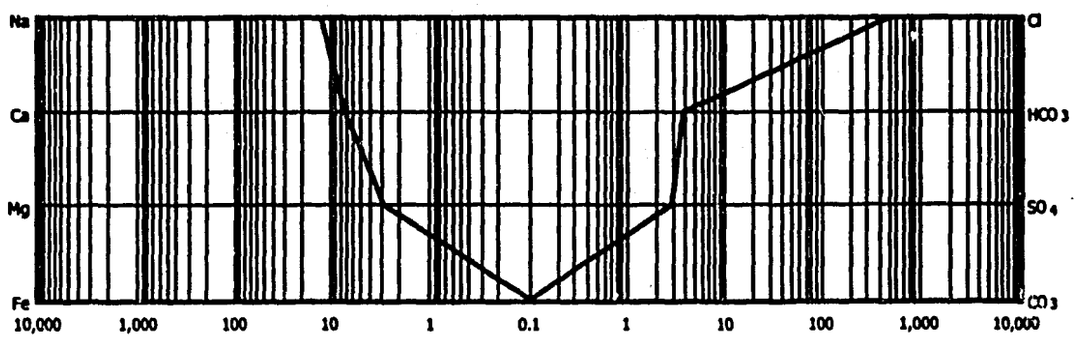
At Ignition	Calculated
	35740

1.0225 @ 15.6 °C	1.3390 @ 18 °C
Specific Gravity	Refractive Index

6.0	0.179 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
048 - 4			52136-2002-0743

Paramount Resources Ltd. — OPERATOR

5 — PAGE

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Arnica	Opsco Energy

TEST TYPE AND NO.

TEST RECOVERY

Manifold Swab #5

POINT OF SAMPLE

CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — at 10:00 hrs

SEPARATOR | OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 07	2002 03 13	2002 03 23	MN		@ .

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,717	0.1950	1,510.1
K	8,793	0.0494	224.9
Ca	20,023	0.1125	999.1
Mg	4,830	0.0271	397.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	108,942	0.6120	3,072.9
Br			
I			
HCO_3	628	0.0035	10.3
SO_4	65	0.0004	1.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

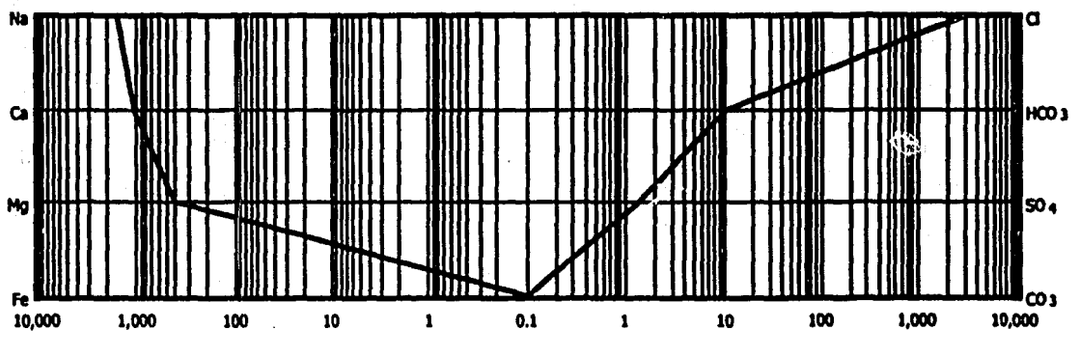
At Ignition	Calculated
	177998

Specific Gravity	Refractive Index
1.1293 @ 15.6 °C	1.3650 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.6	0.053 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
049 - 5			52136-2002-0743

Paramount Resources Ltd. — OPERATOR — PAGE 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Amica	Opsco Energy

TEST TYPE AND NO: Manifold Swab #8 — TEST RECOVERY

POINT OF SAMPLE: 3095.0 - 3115.0, 3125.0 - 3135.0 — CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge) — SEPARATOR | OTHER — Temperatures, °C

at 11:13 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ ·
2002 03 07	2002 03 13	2002 03 23	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	36,107	0.1952	1,570.6
K	7,221	0.0390	184.7
Ca	21,677	0.1172	1,081.7
Mg	5,221	0.0282	429.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	114,151	0.6171	3,219.8
Br			
I			
HCO_3	587	0.0032	9.6
SO_4	13	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

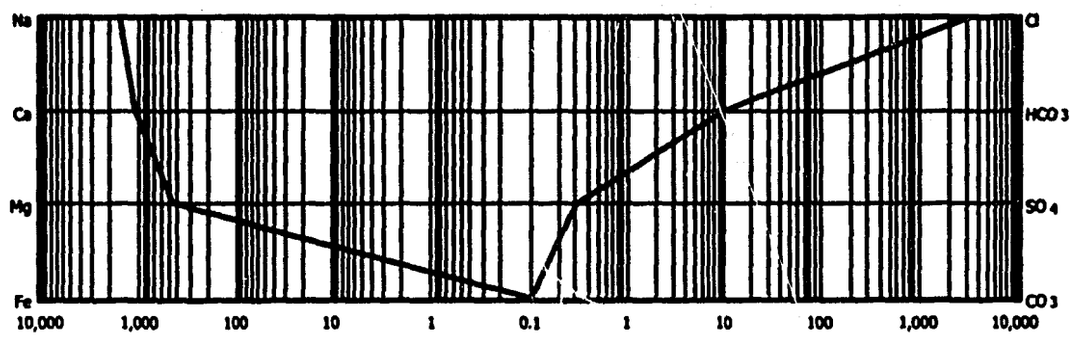
At Ignition	Calculated
	184977

Specific Gravity	Refractive Index
1.1353 @ 15.6 °C	1.3670 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.5	0.052 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

452 - 7			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 7

OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Amica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #12

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 13:25 hrs

2002 03 07	2002 03 13	2002 03 23	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	36,364	0.1947	1,581.7
K	6,999	0.0375	179.0
Ca	22,176	0.1188	1,106.6
Mg	4,601	0.0246	378.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

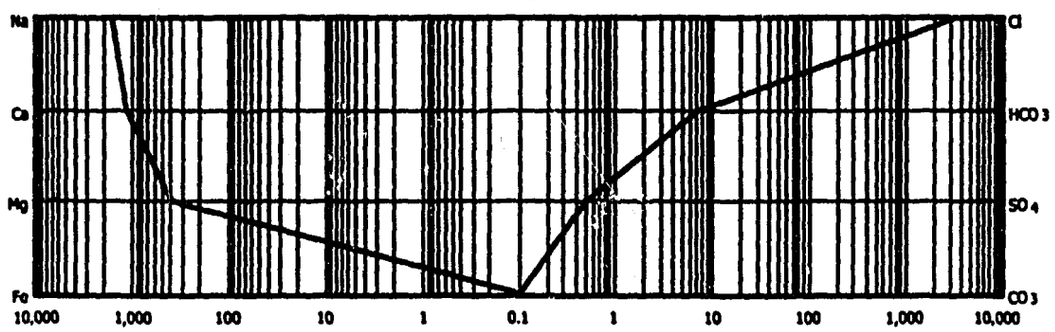
ION	mg/L	mg Fraction	meq/L
Cl	116,124	0.6219	3,275.4
Br			
I			
HCO_3	439	0.0023	7.2
SO_4	26	0.0001	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	186729 Calculated
1.1375 @ 15.6 °C Specific Gravity	1.3875 @ 18 °C Refractive Index
5.5 pH	0.051 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

449 - 1			52136-2002-0743
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 8

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Arnica	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #14

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3095.0 - 3115.0
3125.0 - 3135.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 14:54 hrs

2002 03 07	2002 03 13	2002 03 22	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	44,454	0.2265	1,933.6
K	7,837	0.0399	200.4
Ca	19,058	0.0971	951.0
Mg	5,450	0.0278	448.5
Ba			
Sr			
Fe	Pres.		
Mn			

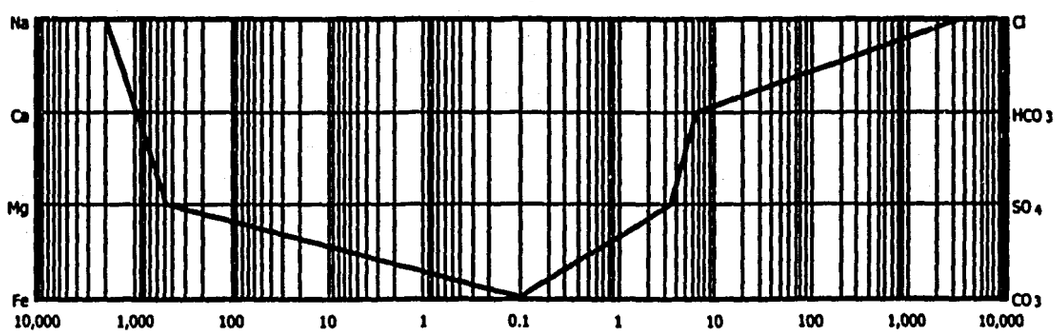
ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	118,886	0.6058	3,353.3
Br			
I			
HCO_3	397	0.0020	6.5
SO_4	165	0.0008	3.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
	196247
At Ignition	Calculated
1.1366 @ 15.6 °C	1.3695 @ 20 °C
Specific Gravity	Refractive Index
5.4	0.050 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS
meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
245 - 1			52136-2002-0811

Paramount Resources Ltd. — OPERATOR

PAGE: 1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: — TEST RECOVERY:

Manifold Swab #1 — POINT OF SAMPLE

CORE LAB SAMPLE POINT ID:

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 17:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 10	2002 03 19	2002 03 25	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	159	0.0193	6.9
K	4,055	0.4924	103.7
Ca	61	0.0074	3.1
Mg	51	0.0062	4.2
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	3,690	0.4480	104.1
Br			
I			
HCO_3	162	0.0196	2.6
SO_4	58	0.0070	1.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

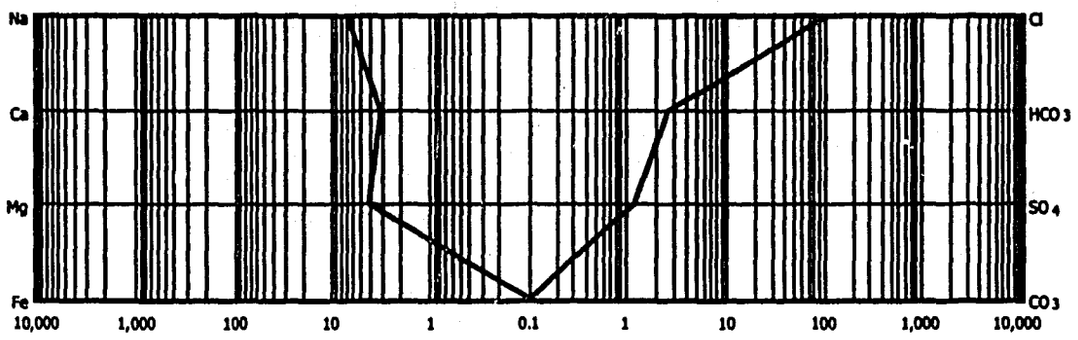
At Ignition	Calculated
	8236

Specific Gravity	Refractive Index
1.0051 @ 15.6 °C	1.3340 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.7	0.740 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
246 - 2			52136-2002-0811

Paramount Resources Ltd. (OPERATOR) — PAGE: 2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: Manifold Swab #1 — TEST RECOVERY:

POINT OF SAMPLE: 3001.0 - 3012.0, 3017.0 - 3024.0 — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 08:45 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ ·
2002 03 11	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	2,300	0.0703	100.0
K	9,773	0.2989	250.0
Ca	1,755	0.0537	87.5
Mg	255	0.0078	20.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	17,059	0.5217	481.2
Br			
I			
HCO_3	1,477	0.0452	24.2
SO_4	79	0.0024	1.6
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

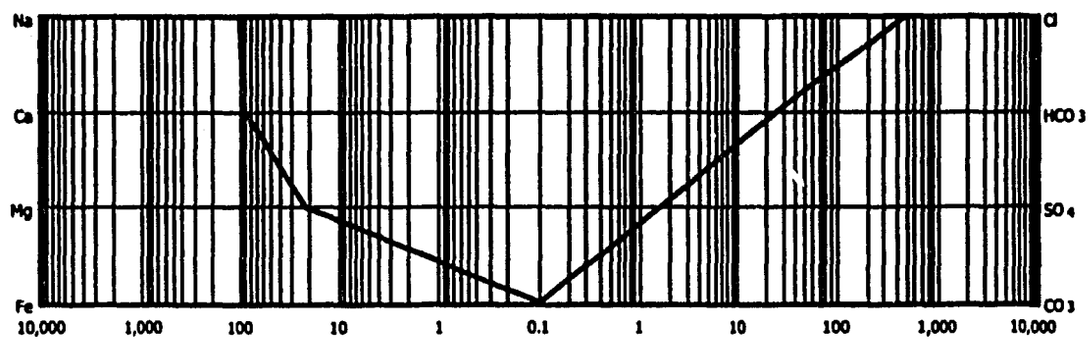
At Ignition	Calculated
	32698

Specific Gravity	Refractive Index
1.0242 @ 15.6 °C	1.3390 @ 18 °C

pH	Resistivity (Ohm-Meters)
7.1	0.185 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
247 - 3			52136-2002-0811

OPERATOR	PAGE
Paramount Resources Ltd.	3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold Swab #2	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 09:30 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 11	2002 03 19	2002 03 25	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	25,258	0.2087	1,098.7
K	6,615	0.0547	169.2
Ca	14,115	0.1166	704.3
Mg	372	0.0031	30.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	73,725	0.6091	2,079.5
Br			
I			
HCO_3	931	0.0077	15.3
SO_4	24	0.0002	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

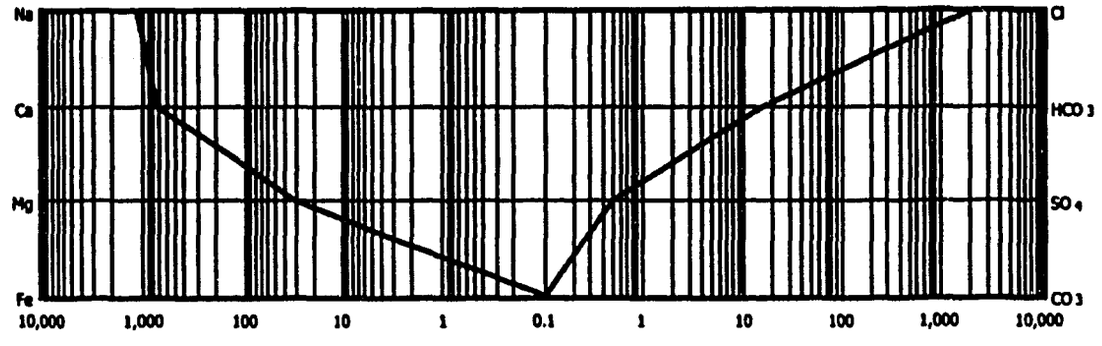
At Ignition	Calculated
	121040

Specific Gravity	Refractive Index
1.0881 @ 15.6 °C	1.3550 @ 18 °C

pH	Resistivity (Ohm-Meters)
6.5	0.067 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
248 - 4			52136-2002-0811

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Paramount Resources Ltd.	4

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.

TEST RECOVERY

Manifold Swab #6

POINT OF SAMPLE

CORE LAB SAMPLE POINT ID

TEST INTERVAL or PERFS (meters)

3001.0 - 3012.0
3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 19:45 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 12	2002 03 19	2002 03 25	MN		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	27,486	0.1383	1,195.6
K	4,300	0.0216	110.0
Ca	32,809	0.1651	1,637.2
Mg	7,083	0.0357	582.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	126,709	0.6377	3,574.0
Br			
I			
HCO_3	289	0.0015	4.7
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

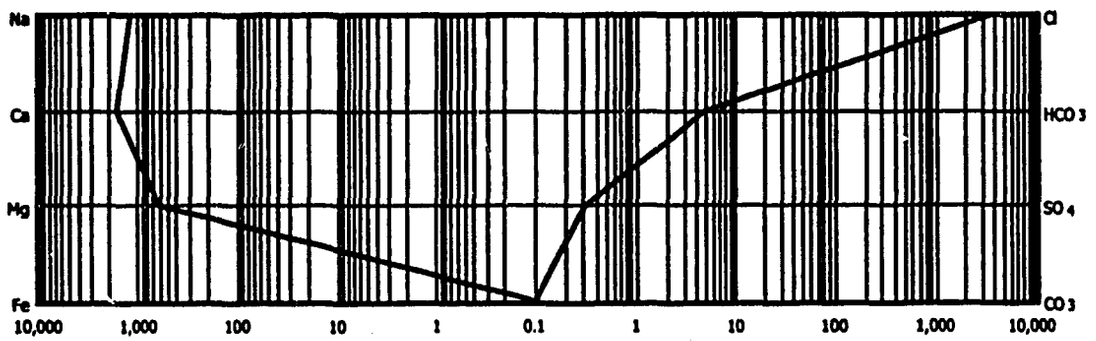
At Ignition	Calculated
	198690

Specific Gravity	Refractive Index
1.1483 @ 15.6 °C	1.3721 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.0	0.053 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
249 - 5			52136-2002-0811

Paramount Resources Ltd. — OPERATOR

PAGE: 5

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO.: Manifold Swab #2

TEST RECOVERY:

POINT OF SAMPLE:

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 08:35 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 13	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	28,974	0.1479	1,260.3
K	4,763	0.0243	121.8
Ca	30,013	0.1532	1,497.7
Mg	7,679	0.0392	631.9
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	124,416	0.6352	3,509.3
Br			
I			
HCO_3	0.00	0.0000	0.0
SO_4	22	0.0001	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

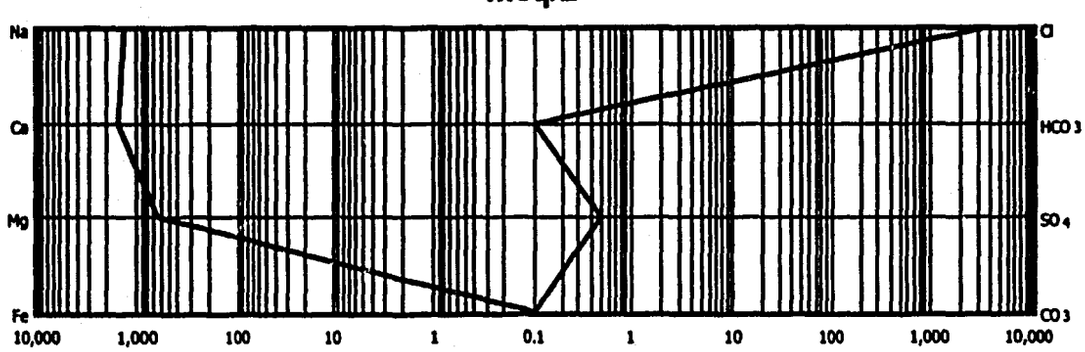
At Ignition	Calculated
	195867

Specific Gravity	Refractive Index
1.1498 @ 15.6 °C	1.3720 @ 18 °C

pH	Resistivity (Ohm-Meters)
4.4	0.052 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

250 - 6			52136-2002-0811
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 6

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Nahanni	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #6

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/c

SEPARATOR — RESERVOIR — OTHER — CONTAINER WHEN SAMPLED @ °C — CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 11:30 hrs

2002 03 13	2002 03 19	2002 03 25	MN		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	29,673	0.1592	1,290.7
K	5,200	0.0279	133.0
Ca	27,233	0.1461	1,358.9
Mg	5,617	0.0301	462.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

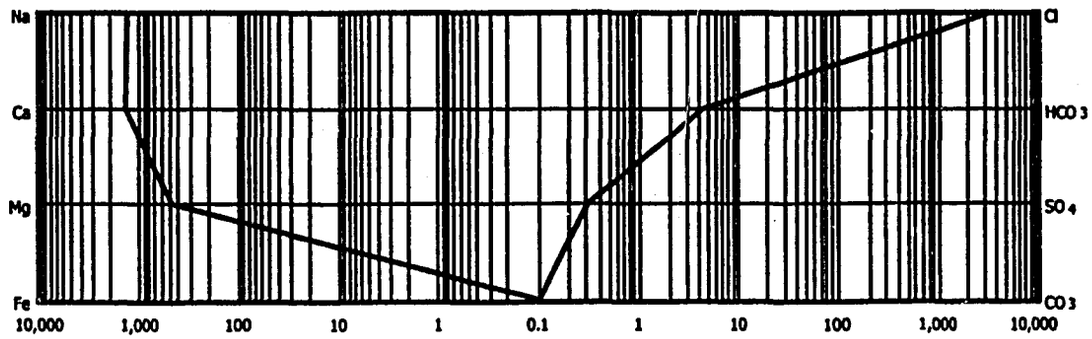
ION	mg/L	mg Fraction	meq/L
Cl	118,372	0.6351	3,338.8
Br			
I			
HCO_3	269	0.0014	4.4
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	186378 Calculated
1.1440 @ 15.6 °C Specific Gravity	1.3702 @ 18 °C Refractive Index
5.3 pH	0.052 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

251 - 7			52136-2002-0811
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 7

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Nahanni	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold Swab #7

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

3001.0 - 3012.0
3017.0 - 3024.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 12:37 hrs

2002 03 13	2002 03 19	2002 03 25	MN		@ .
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,404	0.1626	1,496.5
K	5,640	0.0267	144.3
Ca	31,111	0.1470	1,552.4
Mg	6,211	0.0294	511.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

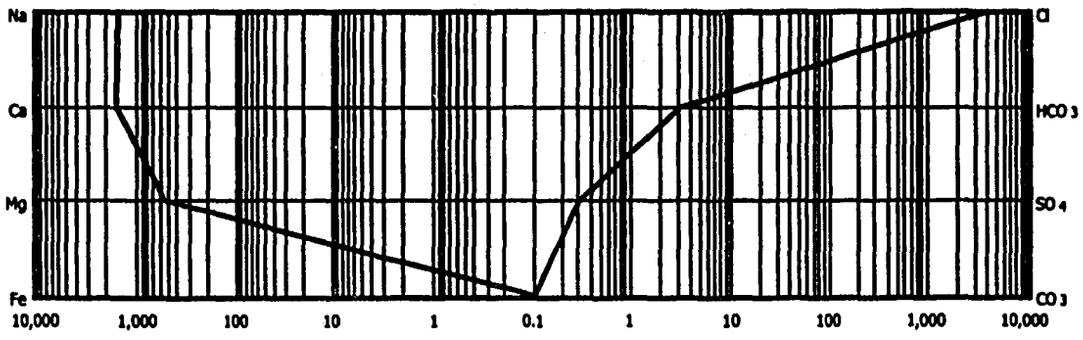
ION	mg/L	mg Fraction	meq/L
Cl	134,024	0.6334	3,780.3
Br			
I			
HCO_3	192	0.0009	3.1
SO_4	16	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	211598 Calculated
1.1603 @ 15.6 °C Specific Gravity	1.3740 @ 18 °C Refractive Index
5.0 pH	0.049 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
252 - 8			52136-2002-0811

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Paramount Resources Ltd.	8

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Nahanni	Opsco Energy

TEST TYPE AND NO: Manifold Swab #8

TEST RECOVERY:

POINT OF SAMPLE:

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 3001.0 - 3012.0, 3017.0 - 3024.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 13:39 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ •
2002 03 13	2002 03 19	2002 03 25	MN		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	21,479	0.1509	934.3
K	5,429	0.0382	138.9
Ca	22,276	0.1565	1,111.6
Mg	3,784	0.0266	311.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	89,030	0.6257	2,511.2
Br			
I			
HCO_3	276	0.0019	4.5
SO_4	20	0.0001	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

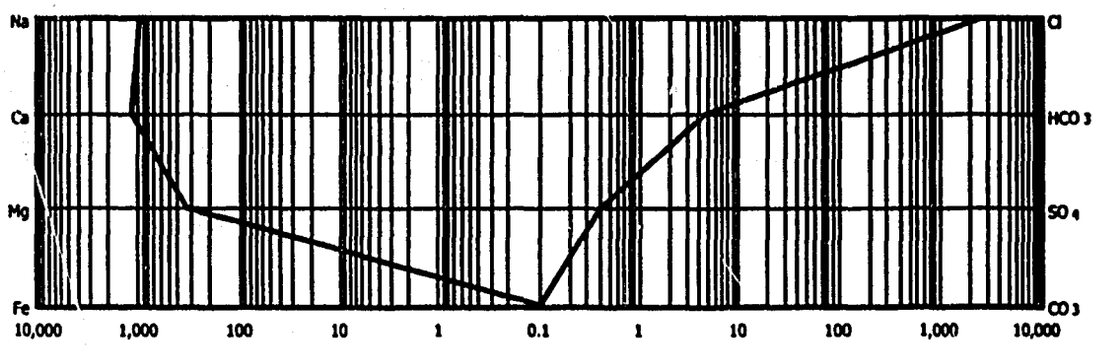
At Ignition	Calculated
	142294

Specific Gravity	Refractive Index
1.1077 @ 15.6 °C	1.3610 @ 18 °C

pH	Resistivity (Ohm-Meters)
5.5	0.062 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

N.E.B. COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
356 - 1			52136-2002-0924

OPERATOR	PAGE
Paramount Resources Ltd.	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

TEST INTERVAL or PERFS (meters): 2910.0 - 2936.0

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 18:18 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °
2002 03 22	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	34,732	0.3935	1,510.8
K	844	0.0096	21.6
Ca	202	0.0023	10.1
Mg	20	0.0002	1.6
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	52,137	0.5907	1,470.6
Br			
I			
HCO_3	272	0.0031	4.5
SO_4	56	0.0006	1.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

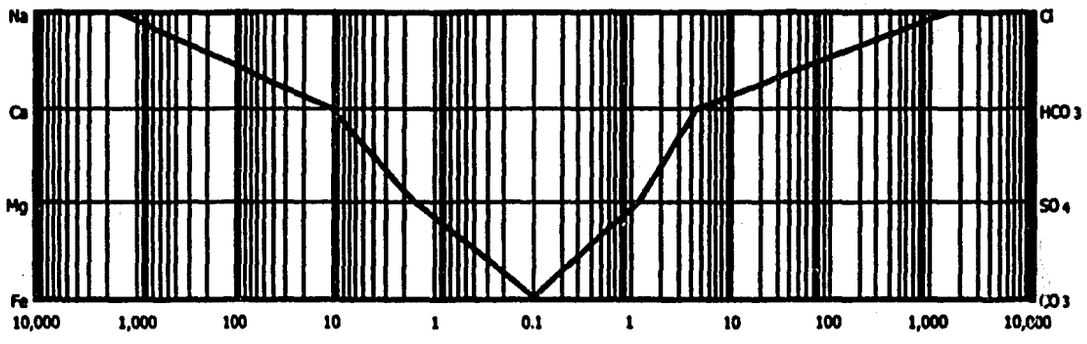
At Ignition	Calculated
	88263

Specific Gravity	Refractive Index
1.0602 @ 15.6 °C	1.3479 @ 20 °C

pH	Resistivity (Ohm-Meters)
7.2	0.082 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
357 - 2			52136-2002-0924

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Paramount Resources Ltd.	2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Manifold	

POINT OF SAMPLE	CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

TEST INTERVAL or PERFS (meters): 2910.0 - 2936.0

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
at 08:12 hrs 2002 03 23	2002 04 01	2002 04 04	SB		@ •

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	33,692	0.3811	1,465.5
K	759	0.0086	19.4
Ca	161	0.0018	8.0
Mg	50	0.0006	4.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	53,248	0.6024	1,501.9
Br			
I			
HCO_3	418	0.0047	6.8
SO_4	70	0.0008	1.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

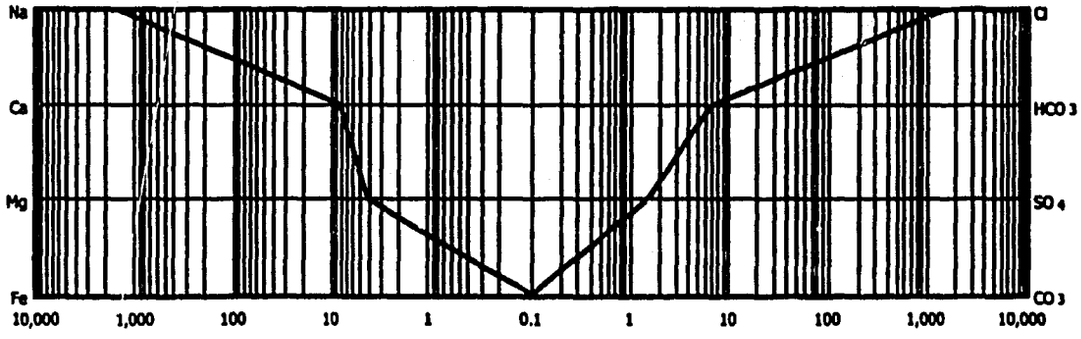
At Ignition	Calculated
	88398

Specific Gravity	Refractive Index
1.0611 @ 15.6 °C	1.3480 @ 21 °C

pH	Resistivity (Ohm-Meters)
6.2	0.085 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
358 - 3			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

WATER ____ m³/d — OIL ____ m³/d — GAS ____ m³/c

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — SEPARATOR — OTHER — Temperatures, °C

at 09:05 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 23	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	20,997	0.2718	913.3
K	5,121	0.0663	131.0
Ca	4,093	0.0530	204.3
Mg	572	0.0074	47.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	46,101	0.5969	1,300.3
Br			
I			
HCO_3	338	0.0044	5.5
SO_4	18	0.0002	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

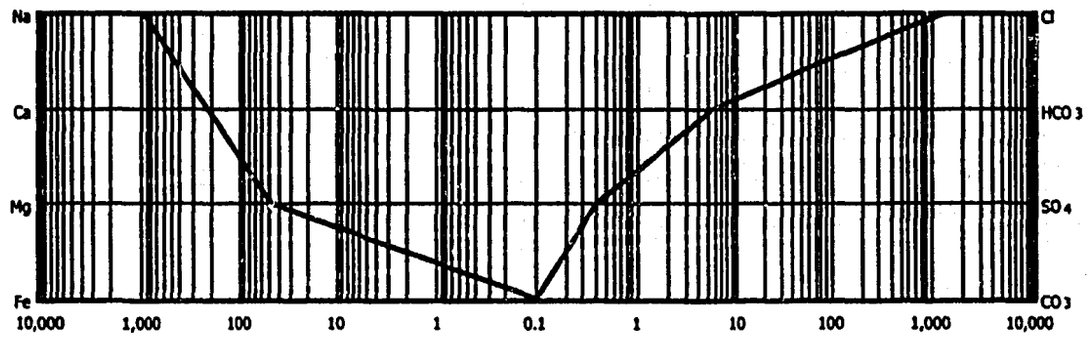
At Ignition	Calculated
	77240

Specific Gravity	Refractive Index
1.0542 @ 15.6 °C	1.3460 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.6	0.092 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

360 - 4			52136-2002-0924
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 4

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sulphur Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 21:20 hrs

2002 03 23	2002 04 01	2002 04 04	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	22,237	0.1350	967.3
K	3,033	0.0184	77.6
Ca	24,381	0.1480	1,216.6
Mg	9,047	0.0549	744.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	105,738	0.6418	2,982.5
Br			
I			
HCO_3	293	0.0018	4.8
SO_4	14	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

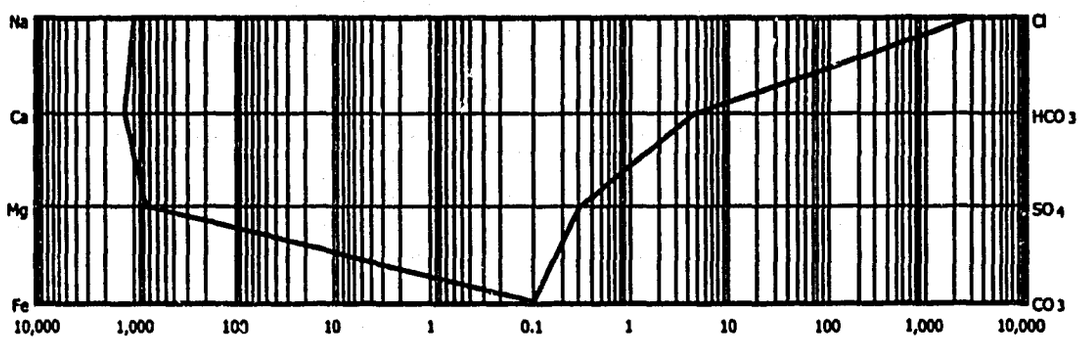
By Evaporation @ 110 °C	By Evaporation @ 180 °C

At Ignition	164743 Calculated

1.1239 @ 15.6 °C Specific Gravity	1.3662 @ 21 °C Refractive Index
5.1 pH	0.059 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
361 - 5			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 5

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR | OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
at 21:45 hrs 2002 03 23	2002 04 01	2002 04 04	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	24,199	0.1502	1,052.6
K	3,139	0.0195	80.3
Ca	21,325	0.1323	1,064.1
Mg	10,335	0.0641	850.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	101,855	0.6321	2,873.0
Br			
I			
HCO_3	274	0.0017	4.5
SO_4	13	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

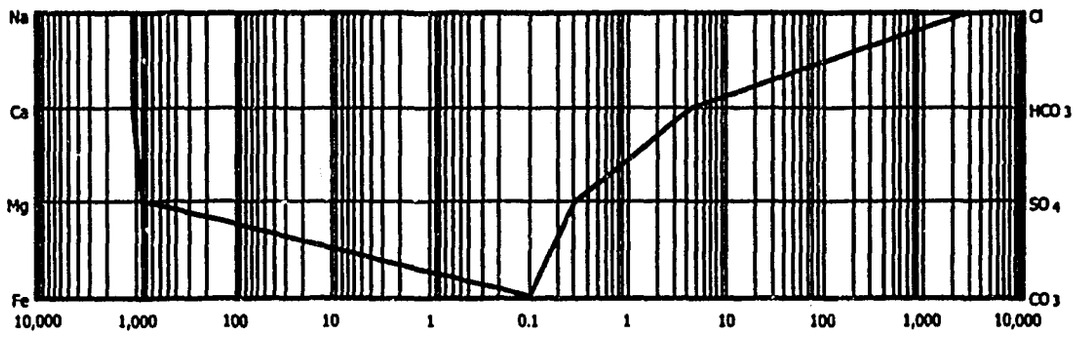
At Ignition	Calculated
	161140

Specific Gravity	Refractive Index
1.1207 @ 15.6 °C	1.3660 @ 21 °C

pH	Resistivity (Ohm-Meters)
5.1	0.060 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
362 - 6			52136-2002-0924

Paramount Resources Ltd. — OPERATOR

6 — PAGE

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 22:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 23	2002 04 01	2002 04 04	SB		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	21,716	0.1410	944.6
K	3,162	0.0205	80.9
Ca	21,728	0.1411	1,084.2
Mg	8,995	0.0584	740.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	98,169	0.6374	2,769.0
Br			
I			
HCO_3	240	0.0016	3.9
SO_4	5.9	0.0000	0.1
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

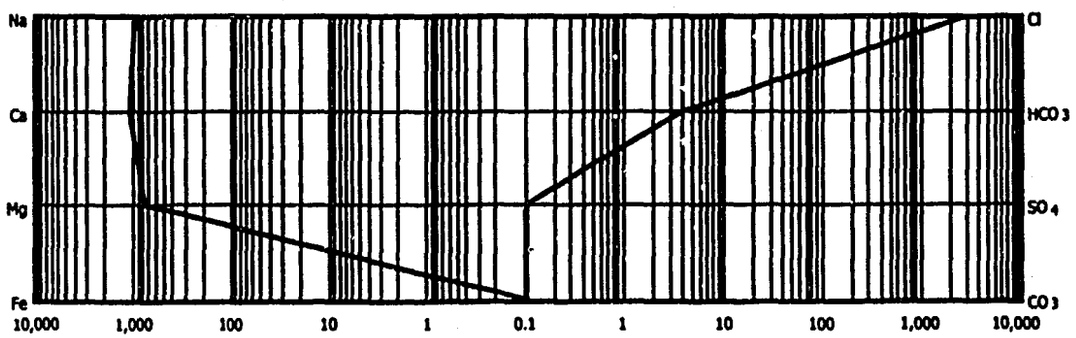
At Ignition	Calculated
	154016

Specific Gravity	Refractive Index
1.1199 @ 15.6 °C	1.3651 @ 21 °C

pH	Resistivity (Ohm-Meters)
5.0	0.060 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
364 - 7			52136-2002-0924

Paramount Resources Ltd. — OPERATOR — PAGE 7

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — CONTAINER WHEN SAMPLED @ °C — CONTAINER WHEN RECEIVED @ °C

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 08:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °
2002 03 25	2002 04 01	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	26,688	0.1964	1,160.9
K	3,734	0.0275	95.5
Ca	11,129	0.0819	555.3
Mg	7,812	0.0575	642.9
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	86,103	0.6338	2,428.7
Br			
I			
HCO_3	366	0.0027	6.0
SO_4	24	0.0002	0.5
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

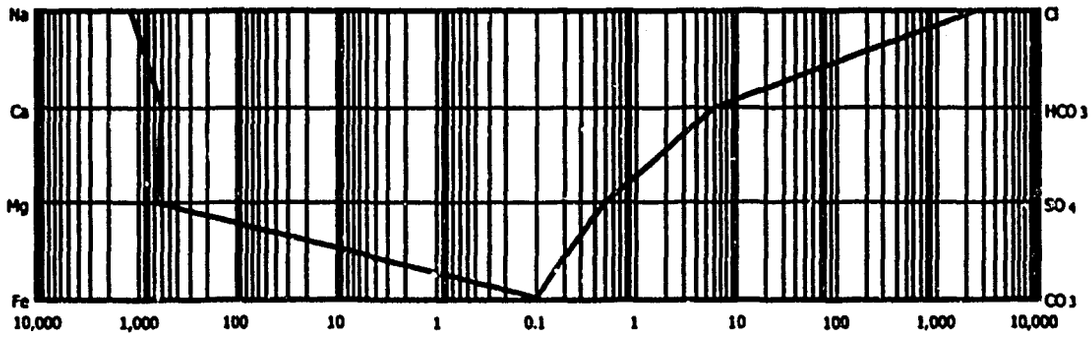
At Ignition	Calculated
	135856

Specific Gravity	Refractive Index
1.1023 @ 15.6 °C	1.3593 @ 21 °C

pH	Resistivity (Ohm-Meters)
6.0	0.063 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

Extended Gas Analysis

Core Lab
PETROLEUM SERVICES

EXTENDED GAS ANALYSIS

N.E.B. COPY

J-76

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0005624 - 1			52136-2002-0899

Paramount Resources Ltd. — OPERATOR

PAGE: 1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Lubricator

TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0

CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS 5700 m³/d

TEST INTERVAL or PERFS (meters): 3020

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED @ °C	CONTAINER WHEN RECEIVED @ 22 °C
				3188

Temperatures, °C

SEPARATOR	OTHER
5	

at 09:50 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °C
2002 03 21	2002 03 27	2002 03 29	MF		

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0001	0.0002	
He	0.0008	0.0009	
N_2	0.0220	0.0265	
CO_2	0.1699	0.0000	
H_2S	0.0020	0.0000	
C_1	0.8048	0.9719	
C_2	0.0004	0.0005	1.4
C_3	Trace	Trace	Trace
iC_4	Trace	Trace	Trace
C_4	Trace	Trace	Trace
iC_5	Trace	Trace	Trace
C_5	Trace	Trace	Trace
C_6	Trace	Trace	Trace
C_{7+}	Trace	Trace	Trace
Total	1.0000	1.0000	1.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
30.49	36.76

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C

PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
0.892 kg/m³	0.728	21.1

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
5049.1 kPa (abs)	208.7 K	4562.7 kPa (abs)	188.7 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	SUPER COMPRESSIBILITY
DENSITY kg/m³	MOLECULAR WEIGHT	@ 15°C ,101.325 kPa	@ 15°C ,101.325 kPa

REMARKS:

H2S determined in the field = 2000 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 00 PHYSICAL CONSTANTS.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
091 - 5			52136-2002-0899

Paramount Resources Ltd. — OPERATOR — PAGE 2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 23:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 20	2002 03 27	2002 04 04	BF		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	6,952	0.1299	302.4
K	2,897	0.0541	74.1
Ca	10,162	0.1899	507.1
Mg	1,294	0.0242	106.4
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	31,943	0.5969	901.0
Br			
I			
HCO_3	254	0.0047	4.2
SO_4	15	0.0003	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

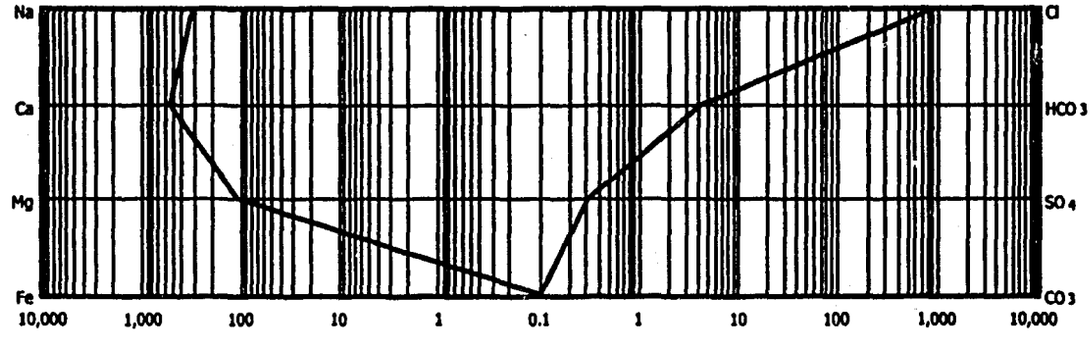
At Ignition	Calculated
	53517

Specific Gravity	Refractive Index
1.0377 @ 15.6 °C	1.3425 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.137 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

097 - 11			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 3
OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — CORE LAB SAMPLE POINT ID

POINT OF SAMPLE

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 23:35 hrs

2002 03 20	2002 03 27	2002 04 04	SB		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	714	0.0817	31.1
K	2,549	0.2916	65.2
Ca	706	0.0808	35.2
Mg	118	0.0134	9.7
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

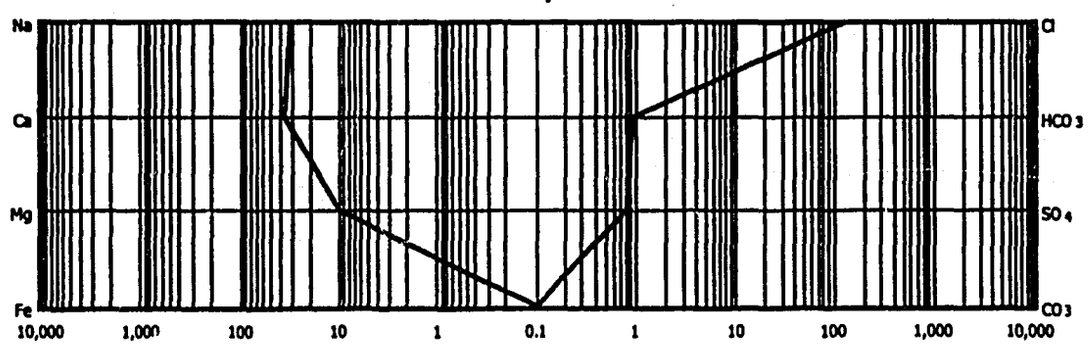
ION	mg/L	mg Fraction	meq/L
Cl	4,560	0.5216	128.6
Br			
I			
HCO_3	57	0.0065	0.9
SO_4	38	0.0044	0.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	8742 Calculated
1.0061 @ 15.6 °C Specific Gravity	1.3345 @ 20 °C Refractive Index
6.1 pH	0.687 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
094 - 8			52136-2002-0899

Paramount Resources Ltd. (OPERATOR) — PAGE 4

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0 — CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

TEST INTERVAL or PERFS (meters)

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED — Pressures, kPa (gauge)

SEPARATOR | OTHER — Temperatures, °C

at 05:40 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ ° MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	SB		

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	566	0.0711	24.6
K	2,579	0.3238	66.0
Ca	367	0.0461	18.3
Mg	54	0.0067	4.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	4,038	0.5070	113.9
Br			
I			
HCO_3	275	0.0345	4.5
SO_4	86	0.0107	1.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

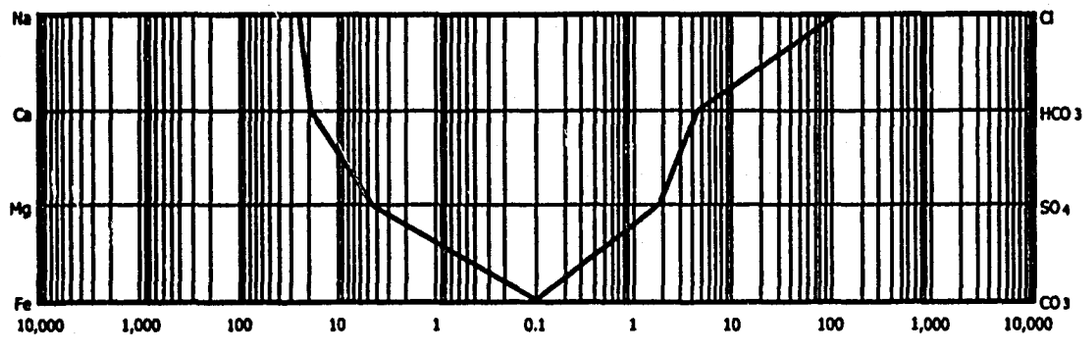
At Ignition	Calculated
	7965

Specific Gravity	Refractive Index
1.0064 @ 15.6 °C	1.3349 @ 20 °C

pH	Resistivity (Ohm-Meters)
6.5	0.714 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

089 - 3			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd.	5
OPERATOR	PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. | TEST RECOVERY

Manifold

POINT OF SAMPLE | CORE LAB SAMPLE POINT ID

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) at 10:00 hrs

SEPARATOR | OTHER

Temperatures, °C

2002 03 21	2002 03 27	2002 04 04	BF		@ ·
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	10,382	0.2541	451.6
K	2,596	0.0635	66.4
Ca	3,202	0.0784	159.8
Mg	433	0.0106	35.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

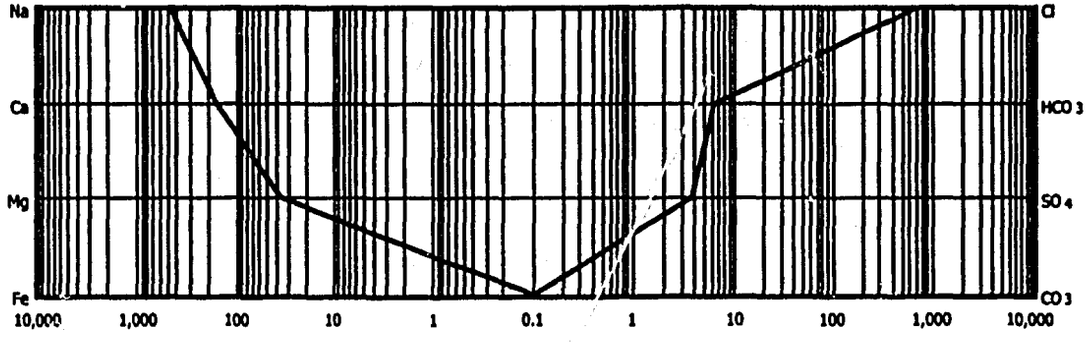
ION	mg/L	mg Fraction	meq/L
Cl	23,689	0.5798	668.2
Br			
I			
HCO_3	377	0.0092	6.2
SO_4	180	0.0044	3.7
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	40859 Calculated
1.0297 @ 15.6 °C Specific Gravity	1.3400 @ 19 °C Refractive Index
5.9 pH	0.162 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
088 - 2			52136-2002-0899

Paramount Resources Ltd. (OPERATOR) — PAGE: 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0, 2885.0 - 2894.0, 2910.0 - 2936.0 — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR | OTHER

at 10:15 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,063	0.2591	481.2
K	2,634	0.0617	67.4
Ca	3,102	0.0726	154.8
Mg	585	0.0137	48.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	24,730	0.5792	697.5
Br			
I			
HCO_3	404	0.0095	6.6
SO_4	181	0.0042	3.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

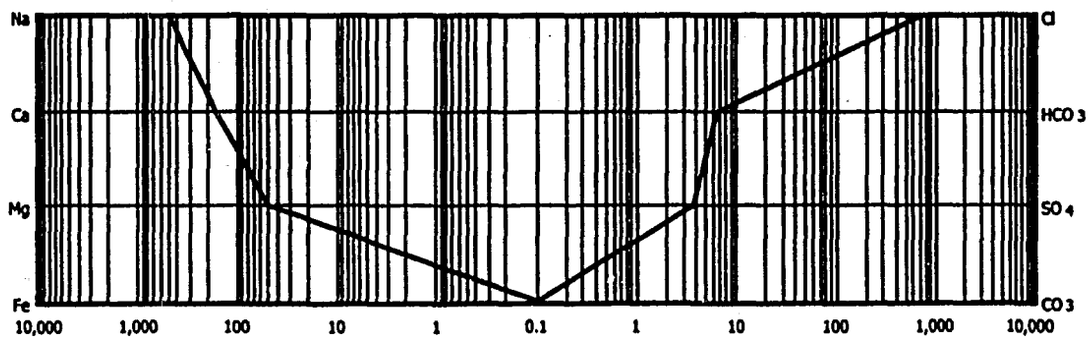
At Ignition	Calculated
	42699

Specific Gravity	Refractive Index
1.0306 @ 15.6 °C	1.3410 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.157 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
093 - 7			52136-2002-0899

Paramount Resources Ltd. — OPERATOR — PAGE 7

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0

CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

TEST INTERVAL or PERFS (meters)

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 10:16 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 21	2002 03 27	2002 04 04	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	9,900	0.2403	430.6
K	2,652	0.0644	67.8
Ca	3,306	0.0802	165.0
Mg	435	0.0106	35.8
Ba			
Sr			
Fe			
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	24,066	0.5841	678.8
Br			
I			
HCO_3	642	0.0156	10.5
SO_4	202	0.0049	4.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

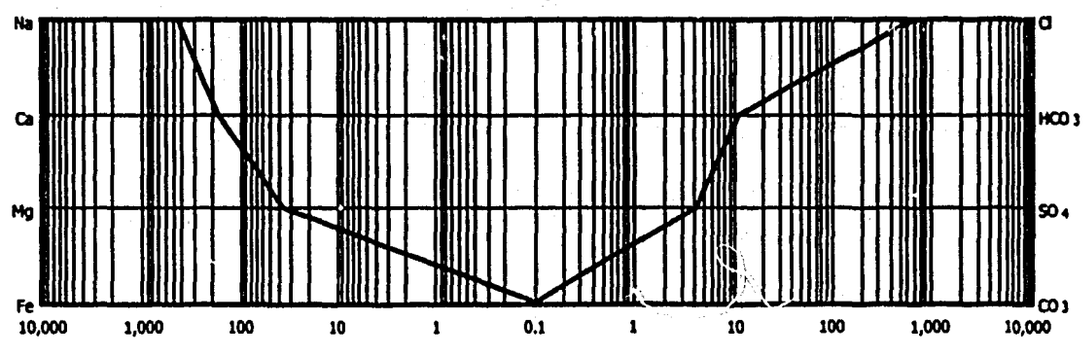
At Ignition	Calculated
	41203

Specific Gravity	Refractive Index
1.0298 @ 15.6 °C	1.3400 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.1	0.160 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
092 - 6			52136-2002-0899

Paramount Resources Ltd. (OPERATOR) — PAGE: 8

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sul Pt Sl Pt	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: 2872.0 - 2880.0; 2885.0 - 2894.0; 2910.0 - 2936.0 — TEST INTERVAL or PERFS (meters)

CORE LAB SAMPLE POINT ID:

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) at 08:00 hrs

SEPARATOR | OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 22	2002 03 27	2002 04 04	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,334	0.2704	493.0
K	2,253	0.0538	57.6
Ca	3,171	0.0757	158.3
Mg	362	0.0086	29.8
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	24,091	0.5748	679.5
Br			
I			
HCO_3	560	0.0134	9.2
SO_4	139	0.0033	2.9
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

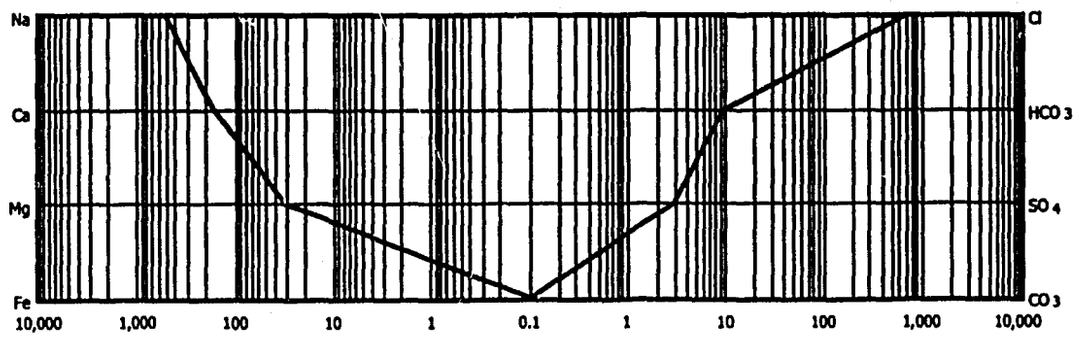
At Ignition	Calculated
	41910

Specific Gravity	Refractive Index
1.0303 @ 15.6 °C	1.3390 @ 19 °C

pH	Resistivity (Ohm-Meters)
6.0	0.165 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

095 - 9			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 9

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold -Swab #1

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — at 08:00 hrs

SEPARATOR | OTHER

Temperatures, °C

2002 03 22	2002 03 27	2002 04 04	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	15,933	0.2852	693.0
K	2,565	0.0459	65.6
Ca	3,991	0.0714	199.2
Mg	501	0.0090	41.2
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	32,412	0.5802	914.2
Br			
I			
HCO_3	389	0.0070	6.4
SO_4	76	0.0014	1.6
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

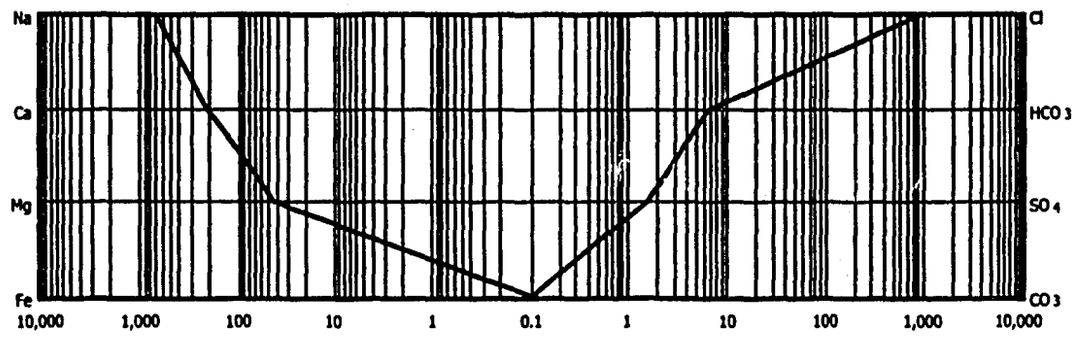
By Evaporation @ 110 °C	By Evaporation @ 180 °C

At Ignition	Calculated
	55867

Specific Gravity	Refractive Index
1.0405 @ 15.6 °C	1.3435 @ 21 °C

pH	Resistivity (Ohm-Meters)
6.1	0.126 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS
meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

WATER ANALYSIS

090 - 4			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 10
OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Upper Sul Pt Sl Pt	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — CORE LAB SAMPLE POINT ID

2872.0 - 2880.0
2885.0 - 2894.0
2910.0 - 2936.0
TEST INTERVAL or PERFS (meters)

POINT OF SAMPLE

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/c

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR | OTHER

Temperatures, °C

at 08:45 hrs

2002 03 22	2002 03 27	2002 04 04	BF		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	16,548	0.2739	719.8
K	2,709	0.0448	69.3
Ca	4,575	0.0757	228.3
Mg	416	0.0069	34.2
Ba			
Sr			
Fe	pres.		
Mn			

ANIONS

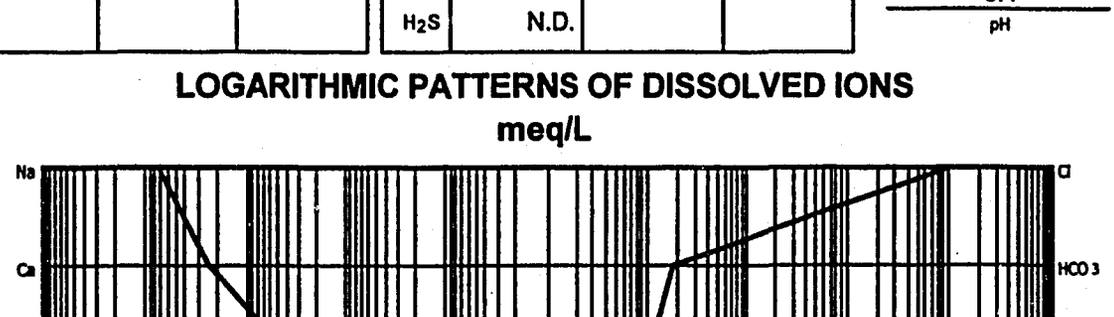
ION	mg/L	mg Fraction	meq/L
Cl	36,001	0.5960	1,015.5
Br			
I			
HCO_3	112	0.0019	1.8
SO_4	46	0.0008	1.0
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	60407 Calculated
1.0445 @ 15.6 °C Specific Gravity	1.3430 @ 19 °C Refractive Index
5.4 pH	0.115 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

096 - 10			52136-2002-0899
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 11

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Slave Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Wireline

POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2872.0 - 2880.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d — OIL m³/d — GAS m³/c

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 10:00 hrs

2002 03 22	2002 03 27	2002 04 04	SB		@ °
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	21,812	0.2828	948.8
K	3,008	0.0390	76.9
Ca	4,439	0.0575	221.5
Mg	629	0.0082	51.8
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

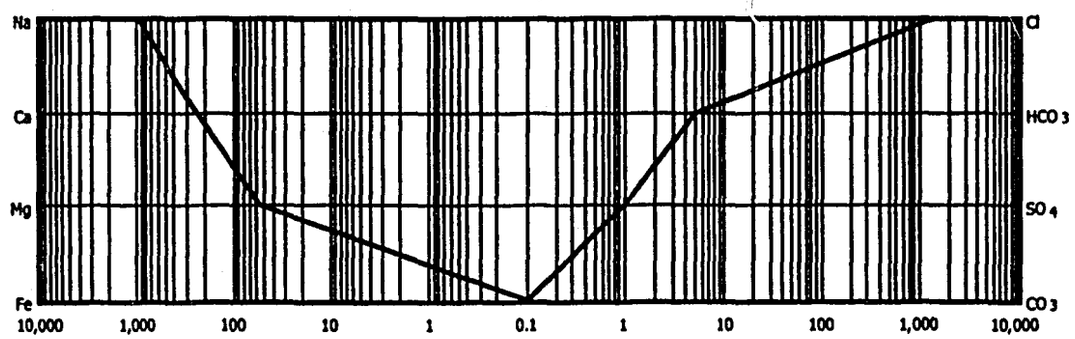
ION	mg/L	mg Fraction	meq/L
Cl	46,910	0.6081	1,323.1
Br			
I			
HCO_3	298	0.0039	4.9
SO_4	46	0.0006	1.0
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	77142 Calculated
1.0572 @ 15.6 °C Specific Gravity	1.3469 @ 21 °C Refractive Index
5.9 pH	0.093 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected Pres. - Analyte Present

J-76

Core Lab
PETROLEUM SERVICES

EXTENDED GAS ANALYSIS N.E.B COPY

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0006699 - 1			52136-2002-0918

OPERATOR	PAGE
Paramount Resources Ltd.	1

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Upper Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold

TEST RECOVERY:

POINT OF SAMPLE: PUMPING / FLOWING / GAS LIFT / SWAB

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 2910.0 - 2936.0

WATER m³/d / OIL m³/d / GAS m³/d

Pressures, kPa (gauge): SEPARATOR / RESERVOIR / OTHER

Temperatures, °C: @ °C CONTAINER WHEN SAMPLED; 3877 @ 22 °C CONTAINER WHEN RECEIVED; SEPARATOR / OTHER

at 10:30 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ °C MUD RESISTIVITY
2002 03 25	2002 03 28	2002 03 30	AB		

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	Trace	0.0001	
He	0.0007	0.0009	
N_2	0.0385	0.0478	
CO_2	0.1923	0.0000	
H_2S	0.0025	0.0000	
C_1	0.7656	0.9507	
C_2	0.0004	0.0005	1.4
C_3	Trace	Trace	Trace
iC_4	0.0000	0.0000	0.0
C_4	0.0000	0.0000	0.0
iC_5	0.0000	0.0000	0.0
C_5	0.0000	0.0000	0.0
C_6	0.0000	0.0000	0.0
C_{7+}	0.0000	0.0000	0.0
Total	1.0000	1.0000	1.4

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)

MOISTURE FREE	MOISTURE & ACID GAS FREE
29.02	35.96

CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C: PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
0.927 kg/m³	0.757	21.9

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
5094.4 kPa (abs)	210.3 K	4537.5 kPa (abs)	187.4 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	SUPER COMPRESSIBILITY
DENSITY kg/m³	MOLECULAR WEIGHT	@ 15°C ,101.325 kPa	@ 15°C ,101.325 kPa

REMARKS:
H2S determined in the field = 2500 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 00 PHYSICAL CONSTANTS.

Gas / Water Analysis

Core Laboratories Canada Ltd.
4777 - 93rd Avenue
Edmonton, Alberta, Canada T6B 2T6
Tel: 780-468-2850
Fax: 780-466-8031
www.corelab.com

1031

APR 0 8 2002

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Core Laboratories Reservoir Fluids Report - Edmonton

Gas/Water Analyses
for
Paramount Resources Ltd.
Paramount Anadarko Bovie J-76-60-20-122-45

Number of Pages (including cover page): 11

File Number: 52136-2002-0837

Date: March 28, 2002

Report Distribution:

Wayne Tomm, Paramount Resources Ltd., Calgary	2 copies
Susan Doll, Opsco Energy Industry, Calgary	FAX

APPROVED BY: P Bonnet

Pascal Bonnet
Assistant Supervisor
Phone: 1-780-468-2850

Please contact the above person should there be any questions concerning the contents of this report. Atmospheric samples will be kept a maximum of 30 days.

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WATER ANALYSIS

310 - 2			52136-2002-0837
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 1

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Lower Sulphur Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2971.0 - 2986.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 16:10 hrs

2002 03 15	2002 03 21	2002 03 27	BF		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	62	0.0315	2.7
K	737	0.3772	18.9
Ca	79	0.0404	3.9
Mg	26	0.0135	2.2
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	795	0.4069	22.4
Br			
I			
HCO_3	226	0.1154	3.7
SO_4	30	0.0151	0.6
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

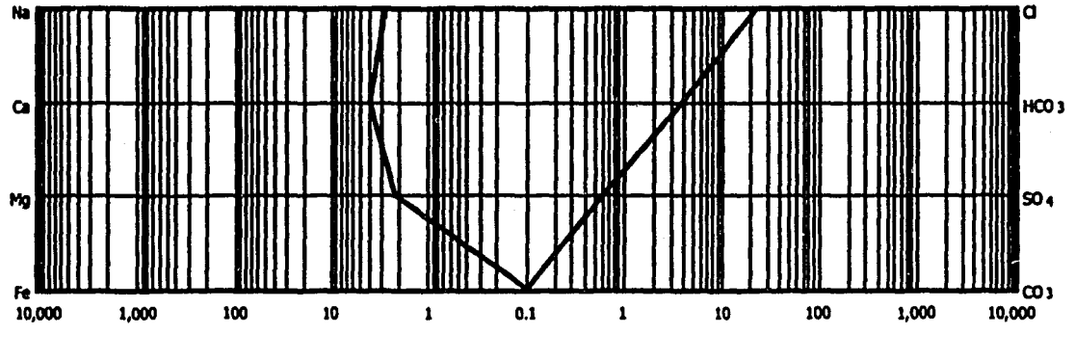
At Ignition	1955 Calculated

1.0013 @ 15.6 °C	1.3340 @ 19 °C
Specific Gravity	Refractive Index

7.1	3.145 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
311 - 3			52136-2002-0837

Paramount Resources Ltd. — OPERATOR — PAGE 2

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold Swab #6 — TEST RECOVERY:

POINT OF SAMPLE: PUMPING / FLOWING / GAS LIFT / SWAB — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 2971.0 - 2986.0

WATER m³/d — OIL m³/d — GAS m³/d

Pressures, kPa (gauge): SEPARATOR / RESERVOIR / OTHER / @ °C CONTAINER WHEN SAMPLED / @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR / OTHER

at 19:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 15	2002 03 21	2002 03 27	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	1,662	0.0784	72.3
K	7,775	0.3666	198.9
Ca	468	0.0221	23.4
Mg	127	0.0060	10.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	11,047	0.5209	311.6
Br			
I			
HCO_3	42	0.0020	0.7
SO_4	85	0.0040	1.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

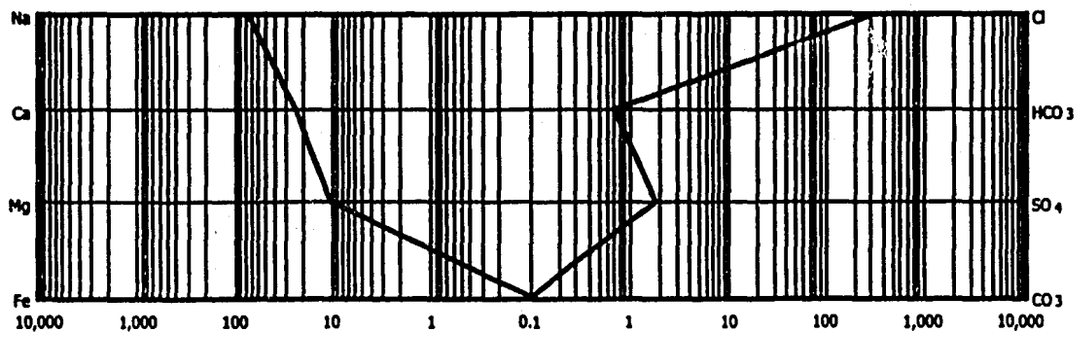
At Ignition	Calculated
	21206

Specific Gravity	Refractive Index
1.0132 @ 15.6 °C	1.3350 @ 19 °C

pH	Resistivity (Ohm-Meters)
5.3	0.304 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
312 - 4			52136-2002-0837

Paramount Resources Ltd. — OPERATOR — PAGE 3

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold — TEST RECOVERY:

POINT OF SAMPLE: PUMPING / FLOWING / GAS LIFT / SWAB — CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 2971.0 - 2986.0

WATER ____ m³/d — OIL ____ m³/d — GAS ____ m³/d

Pressures, kPa (gauge): SEPARATOR / RESERVOIR / OTHER

Temperatures, °C: @ ____ °C CONTAINER WHEN SAMPLED / @ ____ °C CONTAINER WHEN RECEIVED / SEPARATOR / OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
at 19:30 hrs 2002 03 15	2002 03 21	2002 03 27	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	17,407	0.2165	757.2
K	7,821	0.0973	200.0
Ca	6,976	0.0868	348.1
Mg	1,309	0.0163	107.7
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	46,732	0.5814	1,318.1
Br			
I			
HCO_3	103	0.0013	1.7
SO_4	37	0.0005	0.8
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

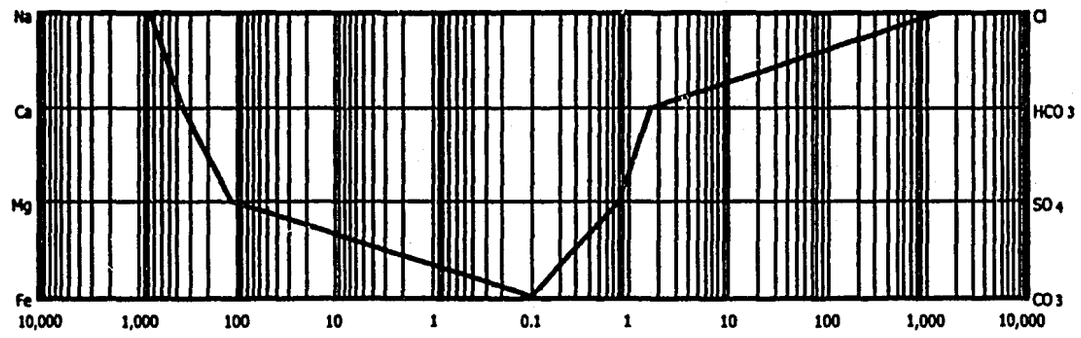
At Ignition	Calculated
	80385

Specific Gravity	Refractive Index
1.0577 @ °C	1.3460 @ 19 °C

pH	Resistivity (Ohm-Meters)
5.3	0.094 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

313 - 5			52136-2002-0837
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — 4
OPERATOR — PAGE

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Lower Sulphur Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold
POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2971.0 - 2986.0
TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR — OTHER

Temperatures, °C

at 23:45 hrs

2002 03 16	2002 03 21	2002 03 27	BF		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11,091	0.0605	482.4
K	1,699	0.0093	43.5
Ca	46,739	0.2550	2,332.3
Mg	8,098	0.0442	666.4
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

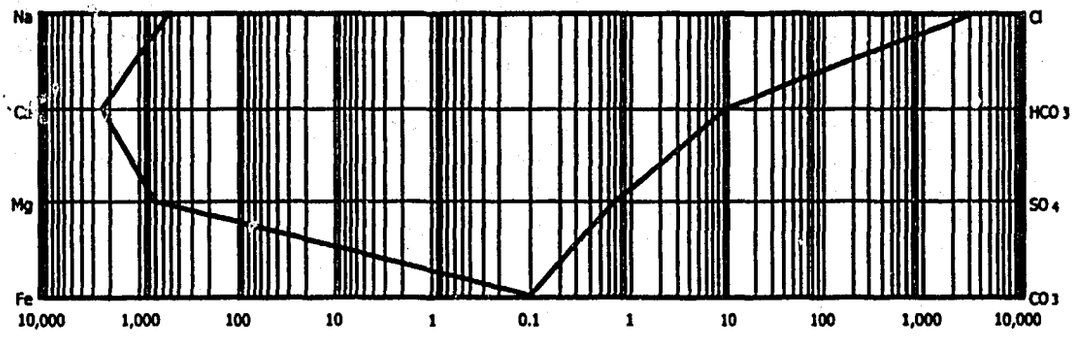
ION	mg/L	mg Fraction	meq/L
Cl	115,020	0.6276	3,244.3
Br			
I			
HCO_3	578	0.0032	9.5
SO_4	34	0.0002	0.7
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	183259 Calculated
1.1388 @ 15.6 °C Specific Gravity	1.3690 @ 19 °C Refractive Index
5.3 pH	0.058 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
314 - 6			52136-2002-0837

Paramount Resources Ltd. — OPERATOR — PAGE 5

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2971.0 - 2986.0 — TEST INTERVAL or PERFS (meters)

WATER ____ m³/d — OIL ____ m³/d — GAS ____ m³/d

Pressures, kPa (gauge)

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Temperatures, °C

SEPARATOR — OTHER

at 08:37 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2002 03 17	2002 03 21	2002 03 27	BF		@ °

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	18,526	0.0953	805.8
K	2,476	0.0127	63.3
Ca	48,437	0.2491	2,417.0
Mg	2,707	0.0139	222.8
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

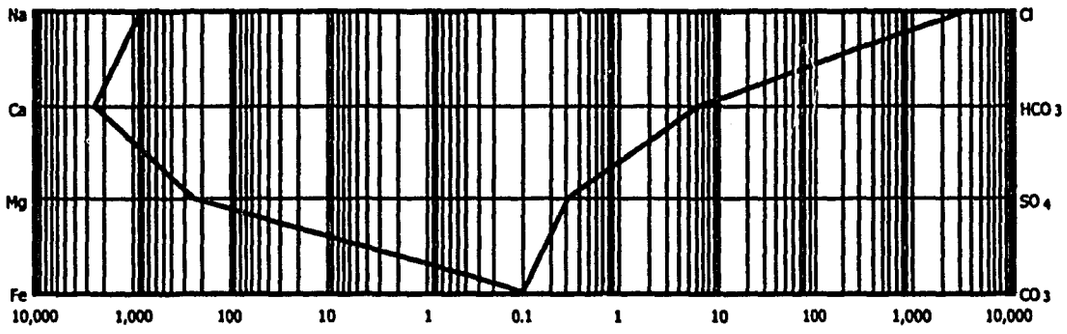
ION	mg/L	mg Fraction	meq/L
Cl	121,882	0.6269	3,437.9
Br			
I			
HCO_3	383	0.0020	6.3
SO_4	16	0.0001	0.3
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	Calculated
	194427
1.1421 @ 15.6 °C	1.3710 @ 19 °C
Specific Gravity	Refractive Index
5.0	0.056 @ 25 °C
pH	Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
315 - 7			52136-2002-0837

Paramount Resources Ltd. — OPERATOR — PAGE 6

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING — FLOWING — GAS LIFT — SWAB

2971.0 - 2986.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge) — at 09:23 hrs

SEPARATOR — OTHER

Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
2002 03 17	2002 03 21	2002 03 27	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	14,272	0.0787	620.8
K	2,109	0.0116	53.9
Ca	49,633	0.2736	2,476.7
Mg	2,408	0.0133	198.1
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	112,081	0.6178	3,161.4
Br			
I			
HCO_3	892	0.0049	14.6
SO_4	33	0.0002	0.7
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

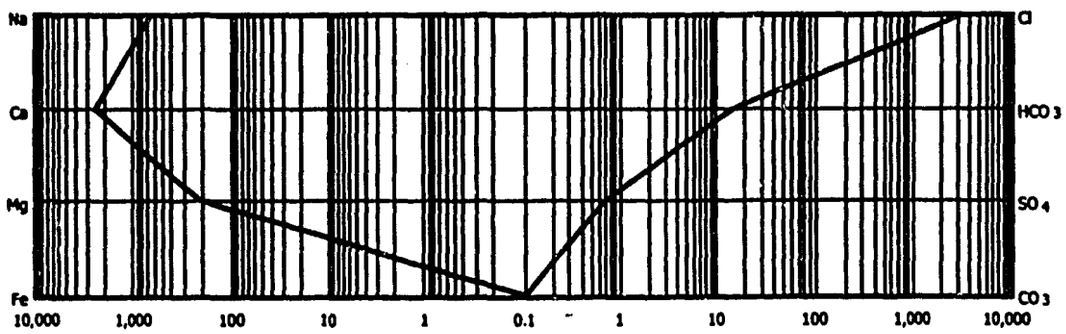
At Ignition	Calculated
	181428

Specific Gravity	Refractive Index
1.1287 @ 15.6 °C	1.3680 @ 19 °C

pH	Resistivity (Ohm-Meters)
5.3	0.059 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

316 - 8			52136-2002-0837
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

Paramount Resources Ltd. — OPERATOR — PAGE 7

J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)

Bovie	Lower Sulphur Point	Opsco Energy
FIELD OR AREA	POOL OR ZONE	SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

2971.0 - 2986.0 — TEST INTERVAL or PERFS (meters)

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/k

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED — Pressures, kPa (gauge) — at 09:55 hrs

SEPARATOR | OTHER — Temperatures, °C

2002 03 17	2002 03 21	2002 03 27	BF		@
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	13,822	0.0787	601.2
K	2,276	0.0130	58.2
Ca	43,727	0.2490	2,182.0
Mg	5,383	0.0307	443.0
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

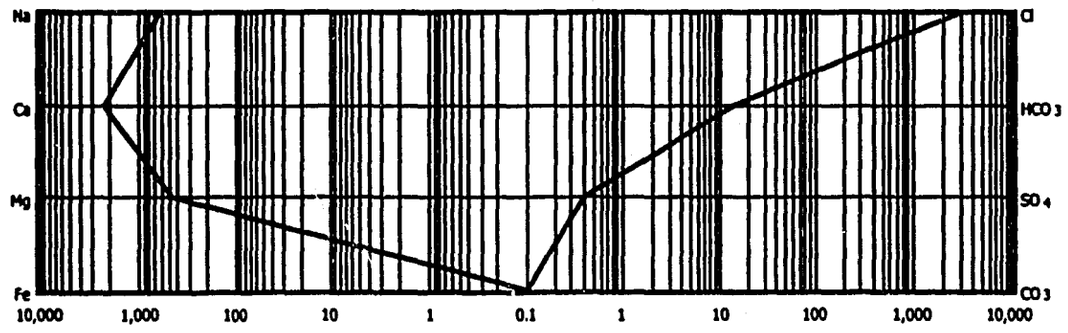
ION	mg/L	mg Fraction	meq/L
Cl	109,549	0.6238	3,090.0
Br			
I			
HCO_3	834	0.0047	13.7
SO_4	18	0.0001	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	175609 Calculated
1.1215 @ 15.6 °C Specific Gravity	1.3655 @ 19 °C Refractive Index
5.3 pH	0.061 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
317 - 9			52136-2002-0837

Paramount Resources Ltd. — OPERATOR

PAGE: 8

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO.: Manifold

TEST RECOVERY:

POINT OF SAMPLE: PUMPING / FLOWING / GAS LIFT / SWAB

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 2971.0 - 2986.0

WATER m³/d | OIL m³/d | GAS m³/c

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Temperatures, °C: SEPARATOR | OTHER

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ MUD RESISTIVITY
at 11:55 hrs 2002 03 17	2002 03 21	2002 03 27	BF		@

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	18,557	0.1199	807.2
K	2,797	0.0181	71.5
Ca	31,321	0.2024	1,562.9
Mg	6,022	0.0389	495.6
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	95,356	0.6162	2,689.6
Br			
I			
HCO_3	662	0.0043	10.8
SO_4	21	0.0001	0.4
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

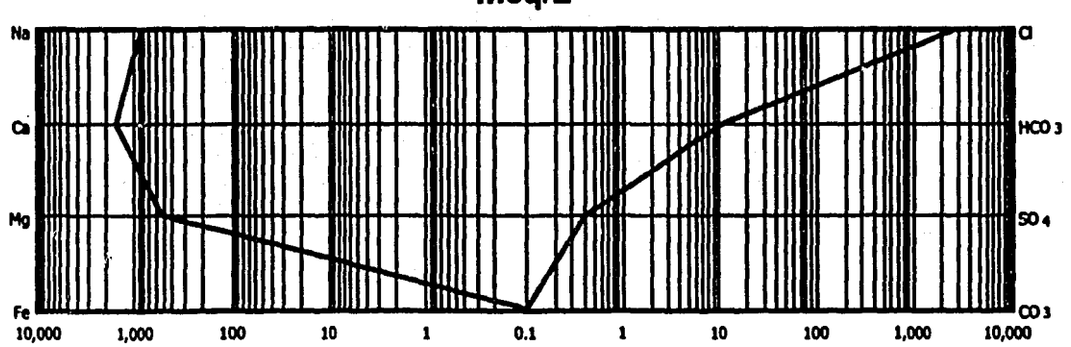
At Ignition	Calculated
	154736

Specific Gravity	Refractive Index
1.1168 @ 15.6 °C	1.3640 @ 19 °C

pH	Resistivity (Ohm-Meters)
5.1	0.061 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected. Pres.- Analyte Present.

EXTENDED GAS ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
V0008179 - 1			52136-2002-0837

OPERATOR	PAGE
Paramount Resources Ltd.	9

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO.	TEST RECOVERY
Meter Run	

POINT OF SAMPLE: PUMPING | FLOWING | GAS LIFT | SWAB

CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 2971.0 - 2986.0

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge)

SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED @ °C	CONTAINER WHEN RECEIVED @ °C
300			@ °C	309 @ 22 °C

Temperatures, °C

SEPARATOR	OTHER
12	

at 12:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °C
2002 03 17	2002 03 21	2002 03 22	MF		@ °C

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m³ AIR FREE AS RECEIVED
H_2	0.0028	0.0051	
He	0.0004	0.0008	
N_2	0.2277	0.4157	
CO_2	0.4476	0.0000	
H_2S	0.0050	0.0000	
C_1	0.3162	0.5775	
C_2	0.0001	0.0002	0.4
C_3	0.0002	0.0004	0.7
iC_4	Trace	0.0001	Trace
C_4	Trace	0.0001	Trace
iC_5	Trace	Trace	Trace
C_5	Trace	Trace	Trace
C_6	Trace	0.0001	Trace
C_{7+}	Trace	Trace	Trace
Total	1.0000	1.0000	1.1

CALCULATED GROSS HEATING VALUE MJ/m³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C
12.13	21.92	
MOISTURE FREE	MOISTURE & ACID GAS FREE	PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS
1.326 kg/m³	1.082	31.3

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED pPc	AS SAMPLED pTc	ACID GAS FREE pPc	ACID GAS FREE pTc
5578.4 kPa (abs)	227.2 K	4079.0 kPa (abs)	163.0 K

C_{7+} PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	SUPER COMPRESSIBILITY
DENSITY kg/m³	MOLECULAR WEIGHT	@ 15°C, 101.325 kPa	@ 15°C, 101.325 kPa

REMARKS:

H2S determined in the field = 5000 ppm

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145 - 00 PHYSICAL CONSTANTS.

WATER ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
318 - 10			52136-2002-0837

Paramount Resources Ltd. — OPERATOR — PAGE 10

LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
J-76-60-20-122-45	Paramount Anadarko Bovie J-76-60-20-122-45	417.0	411.0

FIELD OR AREA	POOL OR ZONE	SAMPLER
Bovie	Lower Sulphur Point	Opsco Energy

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

PUMPING | FLOWING | GAS LIFT | SWAB

2971.0 - 2986.0 — TEST INTERVAL or PERFS (meters)

WATER m³/d | OIL m³/d | GAS m³/d

SEPARATOR | RESERVOIR | OTHER | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED — Pressures, kPa (gauge)

SEPARATOR | OTHER — Temperatures, °C

at 14:10 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY
2002 03 17	2002 03 21	2002 03 27	BF		@ °

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	22,042	0.1176	958.8
K	3,232	0.0172	82.7
Ca	37,309	0.1990	1,861.7
Mg	7,676	0.0409	631.7
Ba			
Sr			
Fe	Pres.		
Mn			

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	116,663	0.6222	3,290.6
Br			
I			
HCO_3	566	0.0030	9.3
SO_4	9.8	0.0001	0.2
CO_3	0.00	0.0000	0.0
OH	0.00	0.0000	0.0
H_2S	Pres.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C

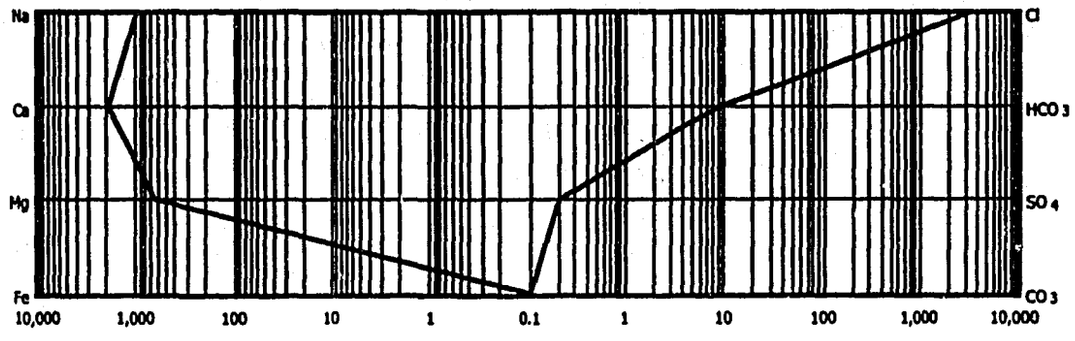
At Ignition	Calculated
	187498

Specific Gravity	Refractive Index
1.1363 @ 15.6 °C	1.3600 @ 19 °C

pH	Resistivity (Ohm-Meters)
5.0	0.057 @ 25 °C

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: Pres.- Analyte Present.

RESISTIVITY/ CONDUCTIVITY

BAKER HUGHES

Baker Atlas

HIGH DEFINITION INDUCTION LOG w GAMMA RAY LOG CALIPER LOG

WEB COPY

FILE NO:	COMPANY	PANMONT RESOURCES LTD.
API NO:	WELL	PARAMOUNT ANADARKO BOVE J-76
	FIELD	BOVIE
Ver. 3.81	PROVINCE	WMT
	LOCATION: LIC: 1931	OTHER SERVICES
	UWI: 300-J-76-6020-12245-00	CDL-CN-DF-XY
		MAC-CN-DIL
		DVL

PERMANENT DATUM	S.L.	ELEVATION 412.0 M	ELEVATIONS:
LOG MEASURED FROM	K.B.	5.2 M ABOVE P.D.	K.B. 417.3 M
DRILL MEAS. FROM	KELLY BUSHING		D.F. 416.0 M
			G.L.

DATE	8-JAN-2002		
RUN	TRIP 1	1	
SERVICE ORDER	201589		
DEPTH DRILLER	1027.5 M		
DEPTH LOGGER	1025.0 M		
BOTTOM LOGGED INTERVAL	1022.3 M		
TOP LOGGED INTERVAL	511.5 M		
CASING DRILLER	339.7 M @	@511.0 M	@
CASING LOGGER	511.3 M		
BIT SIZE	311.0 MM		
TYPE OF FLUID IN HOLE	INVERT		
DENSITY / VISCOSITY	D.950 G/C3	N/A	
PH / FLUID LOSS	N/A	N/A	
SOURCE OF SAMPLE	N/A		
Rm AT MEAS. TEMP.	N/A	@N/A	@
RMF AT MEAS. TEMP.	N/A	@N/A	@
RMC AT MEAS. TEMP.	N/A	@N/A	@
SOURCE OF RMF / RMC	N/A	N/A	
Rm AT BHT	N/A	@44.5 DEGC	@
TIME SINCE CIRCULATION	8.0 HOURS		
MAX. RECORDED TEMP.	44.5 DEGC		
EQUIP. NO. / LOCATION	HL 6556	GR. PRAIRIE	
RECORDED BY	K. PYKE		
WITNESSED BY	J. LOADER		

IN GIVING INTERPRETATION OF LOGS OR SERVICES WELL SITE SERVICES THE BENEFIT OF THEIR BEST JUDGEMENT, BUT BAKER ATLAS INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSE INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

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REMARKS

RUN 1 TRIP 1 : TIME STOPPED CIRCULATION: JAN 8, 00:30

HIGH-MAC-DN-DAL RECORDED IN COMBINATION.

BOREHOLE AND TEMPERATURE CORRECTED ON WMT MUD & MUD CAKE DATA.
MAXIMUM RECORDED TEMPERATURE (MRT) IS BHT.
AVERAGE CALIPER RECORDED WITH HI-LO ASSIST WITH THE QC OF THE DATA.

THE RESOLUTION = 5FA.1ft AXIAL,2FA.5FS TRANSVERSE MEASUREMENTS.
THE RESOLUTION = 5FA.1ft AXIAL,2FA.5FS TRANSVERSE MEASUREMENTS.
LIP WAY WE TAKE EQUIPMENT IN HOLES (THIS SERVICE WITH 10, 20, 30, 60, 90, AND
BOREHOLE CONDITIONS PERMIT). THE DEPTH OF INVESTIGATION IS DEPENDENT ON THE
BOREHOLE CONDITIONS AND THE FORMATION RESISTIVITY. THE VERTICAL RESOLUTION
APPLIES TO THE MAXIMUM RESOLUTION WITHOUT TOOL CORRECTION.

CDN : L. BARRETT, T. LOADER

RIG: SNUBN #45

RUN	TRIP	TOOL	EQUIPMENT DATA SERIAL NO.	BASE	TOP (m)	BOTTOM (m)
1	1	DIL	1304		339.7	1025.0
		SLS	1304		339.7	1025.0
		MAC	1304		339.7	1025.0
		CNL	1304		339.7	1025.0
		DVL	1304		339.7	1025.0
		GR	1304		339.7	1025.0
		CAL	1304		339.7	1025.0
		TEN	1304		339.7	1025.0
		TEMP	1304		339.7	1025.0
		CCL	1304		339.7	1025.0

INSTRUMENT CONFIGURATION

MAIN PASS - UPPER PRESENTATION

Effective 3.20
Format Folder/03

Cplot 5.10
Fld.Cap./Folder/16

Wed Jan 9 15:00:24 2002

Mon Jan 7 15:00:24 2002
Updates: 1.2

Cplot /folder/plots/presentation/Cplot.cpm
Fld.Cap./folder/plots/presentation/Fld.Cap.cpm

PARAMETER AND FILTER SUMMARY REPORT

DEPTH	511.500 m	1025.500 m	513.999 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
DIF	FILTER (1)	median (1)		:	:
GR	FILTER (2)	light (2)		:	:
Y AXIS CALIPER	FILTER (3)	median (3)		:	:
	FILTER (4)	light (4)		:	:
TOGGLE	FILTER (5)	median (5)		:	:

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
BIT SIZE	BIT SIZE	311.000	mm	:	:
CEMENT VOLUME	CEMENT VOLUME	VOLUME=0.000	m3	:	:
BOREHOLE DIAMETER	FIXED DIAMETER (mm*)	311.000	mm	:	:
BOREHOLE SOURCE	BOREHOLE SOURCE	CALIPER=0.000		:	:
MUD VALUES	MUD DENSITY	0.00	deg.C	:	:
	MUD SAMPLE TEMP	0.00	deg.C	:	:
	MUD RESISTIVITY	0.00	Ohm.m	:	:
	MUD REFERENCE TEMP	0.00	Deg.C	:	:
	MUD FILTRATE	0.00	Ohm.m	:	:

HOLE PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
ADAPTIVE ENVIRONMENTAL CORRECTION	ENVIRONMENTAL CORRECTION	On		:	:
ADAPTIVE ENVIRONMENTAL CORRECTION	LOG PROCESSING	Dyn. Attrnp		:	:
	STANDOFF	38.10	mm	:	:
	STANDOFF DIRECTION	000.00		:	:
	Real-Time Editing	ENVIRONMENTAL		:	:
	Real-Time Editing	T=1.000		:	:

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	OPERATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 1 15:15:15 2002	BIT SIZE
F1:CEMV	CEMV	Jan 1 15:15:15 2002	CEMENT VOLUME
F1:CH	CH	Jan 1 15:15:15 2002	CALIPER HOLE DIAMETER
F1:CSHT	CSHT	Jan 1 15:15:15 2002	CABLE SPEED TENSION
F1:DEPTH	DEPTH	Jan 1 15:15:15 2002	DEPTH OF BOREHOLE
F1:DIFF	DIFF	Jan 1 15:15:15 2002	DIFFERENTIAL CALIPER
F1:HDEV	HDEV	Jan 1 15:15:15 2002	HOLE DEVIATION
F1:HMDX	HMDX	Jan 1 15:15:15 2002	HOLE MAXIMUM CURVATURE
F1:HMIN	HMIN	Jan 1 15:15:15 2002	HOLE MINIMUM CURVATURE
F1:TEN	TEN	Jan 1 15:15:15 2002	WIRELINE TENSION

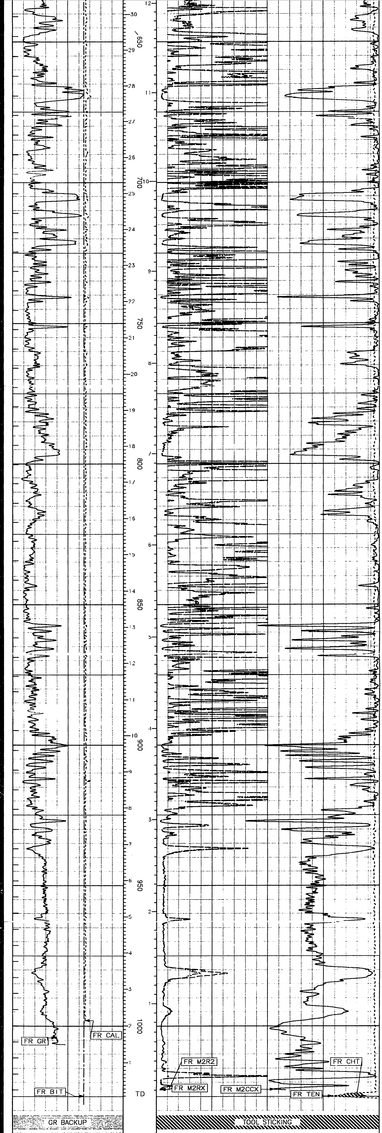
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DIF	0.00	MDEX	2.44
CAL	28.82	GR	28.73	TEN	0.00

Parameters
Parameter Table : 1 MAC-CN-DIL-DVL-GR-CAL-TEN-TEMP
Data Path : 1 PANMONT RESOURCES LTD.
Company : 1 PARAMOUNT ANADARKO BOVE J-76
Well : 1 BOVIE
Field : 1 WMT
Province : 1 Latitude = 4823.79 Metres
Log : 1 Longitude = 12245.00 Metres

Data File : 1 /cpi/data/panmount_J-76/Cplot.cpm
Plot Format : 1 /cpi/data/panmount_J-76/MLaypot1 (1:600 Scale)

Plot Date	: 1 Mon Jan 7 15:00:24 2002	Plot Time	: 1
Plot Method	: 1 Electrostatic	Plot Device	: 1
Plot Server	: 1	Plot Queue	: 1
Plot Command	: 1		



QUALITY CONTROL PLOT

May 21, 2001 — Fileview 3.20 — Cplot 5.10 — Wed Jon 9 14:52:50 2002
Updates: 1,2 — Porpl /main/53 — Pdl_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/paramount_J-76/g44605.prm
Created On: Jon 9 15:15:16 2002
TOP DEPTH: 670.304 m BOTTOM DEPTH: 1027.766 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CHT	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	light (2)		"	"
	FILTER (_)	light (2)		"	"
	FILTER ()	light (2)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING + BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mm*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm*)	311.000	mm	"	"
MUD VALUES SOURCE	INVID SOURCE (MUD)	OIL BASE MUD		"	"
MUD VALUES	MUD SAMPLE TEMP	23.9	degC	"	"
	MUD SAMPLE RES	10.000	ohm.m	"	"
	MUD REFERENCE TEMP	23.9	degC	"	"
	TEMP GRADIENT	1.900	0.01 degC/m	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RSTEMP		"	"
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	38.10	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"
HDIL DIFF TEN LIMIT	DIFF TENSION LIMIT	500		"	"

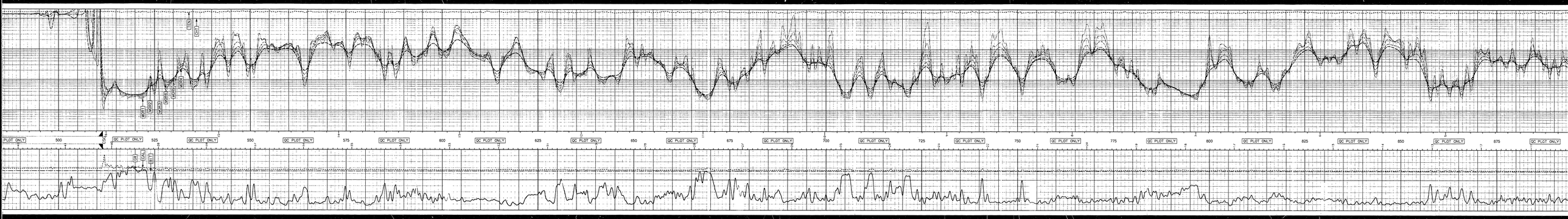
CURVE DESCRIPTION REPORT

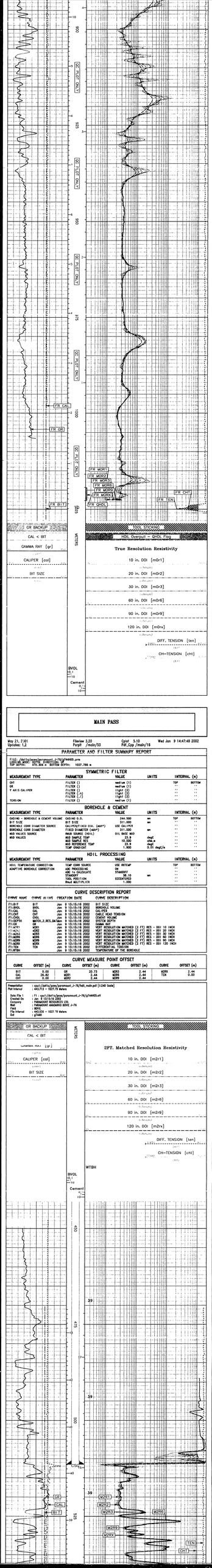
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 15:15:16 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 15:15:16 2002	BOREHOLE VOLUME
F1:CAL	CAL	Jan 9 15:15:16 2002	CALIPER
F1:CHT	CHT	Jan 9 15:15:16 2002	CABLE HEAD TENSION
F1:CVOL	CVOL	Jan 9 15:15:16 2002	CEMENT VOLUME
F1:DEPTH	TRUE_RES_DATA	Jan 9 15:15:16 2002	SYSTEM DEPTH
F1:GR	GR	Jan 9 15:15:16 2002	GAMMA RAY
F1:M2R1	M2R1	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 10 INCH
F1:M2R2	M2R2	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 20 INCH
F1:M2R3	M2R3	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 30 INCH
F1:M2R6	M2R6	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 60 INCH
F1:M2R9	M2R9	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 90 INCH
F1:M2RX	M2RX	Jan 9 15:15:16 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 120 INCH
F1:QHDL	QHDL	Jan 9 15:15:16 2002	QUALITY FOR FOR DIFFERENTIAL TENSION PULLS FOR HDIL
F1:TEN	TEN	Jan 9 15:15:16 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	20.73	M2R3	2.44	M2RX	2.44
CAL	26.82	M2R1	2.44	M2R6	2.44	QHDL	3.05
CHT	0.00	M2R2	2.44	M2R9	2.44	TEN	0.00

Presentation	: cpuc1/data/pass/paramount_J-76/hdil_qc.ppd [1:240 Scale]
Plot Interval	: 443.713 = 1027.79 Meters
Data File 1	: F1 : cpuc1/data/pass/paramount_J-76/g244605.xtf
Created On	: Jon 9 15:53:18 2002
Company	: PARAMOUNT RESOURCES LTD.
Well	: PARAMOUNT ANADARKO BOYD J-76
Field	: BOYD
File Interval	: 443.638 - 1027.79 Meters
Cct	: gr448


QC PLOT ONLY
500
525
550
575
600
625
650
675
700
725
750
775
800
825
850
875
QC PLOT ONLY
QC PLOT ONLY
QC PLOT ONLY



MAIN PASS

May 21, 2001 — Filerive 3.20 — Grid 5.10 — Wed Jan 9 14:47:48 2002
Upvalues: 1,2 — Porpt /main/53 — Pdt_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /opt/petris/pem/pemonum_J-76/lis64605.pre
TOP DEPTH: 870.384 m BOTTOM DEPTH: 1027.788 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CHT	FILTER (1)	median (1)		***	***
GR	FILTER (1)	median (1)		***	***
Y AXIS CALIPER	FILTER (1)	light (1)		***	***
	FILTER (.5)	light (2)		***	***
	FILTER (.5)	light (3)		***	***
TENSION	FILTER (1)	median (1)		***	***

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CALIPER - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	***	***
BIT SIZE	BIT SIZE	311.000	mm	***	***
BOREHOLE CORR DIAMETER SOURCE	CALIPER/HOLE DIA. (mm*)	USE CALIPER		***	***
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm*)	311.000	mm	***	***
MUD VALUES SOURCE	MUD SOURCE (MUD)	DIL BASE MUD		***	***
MUD VALUES	MUD SAMPLE TEMP	23.9	degC	***	***
	MUD SAMPLE RES	10.000	ohm.m	***	***
	MUD REFERENCE TEMP	23.9	degC	***	***
	TEMP GRADIENT	1.900	0.01 degC/m	***	***

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RWTEMP		***	***
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		***	***
	ABC TO CALCULATE	STANDOFF		***	***
	STANDOFF	38.10	mm	***	***
	TOOL POSITION	ECCENTERED		***	***
	Rmud MULTIPLIER	1.000		***	***

CURVE DESCRIPTION REPORT

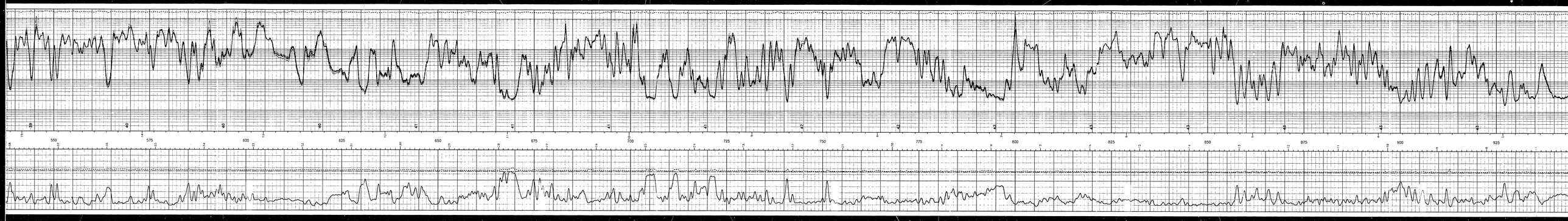
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 15:15:16 2002	BIT SIZE
F1:CAL	CAL	Jan 9 15:15:16 2002	CALIPER VOLUME
F1:CAL	CAL	Jan 9 15:15:16 2002	CALIPER
F1:CHT	CHT	Jan 9 15:15:16 2002	CABLE HEAD TENSION
F1:CVOL	CVOL	Jan 9 15:15:16 2002	CEMENT VOLUME
F1:DEPTH	@ATCH_2_RES_DATA@	Jan 9 15:15:16 2002	SYSTEM DEPTH
F1:GR	GR	Jan 9 15:15:16 2002	GAMMA RAY
F1:M01	M01	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 10 INCH
F1:M02	M02	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 20 INCH
F1:M03	M03	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 30 INCH
F1:M06	M06	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 60 INCH
F1:M09	M09	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 90 INCH
F1:M09X	M09X	Jan 9 15:15:16 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 120 INCH
F1:TEN	TEN	Jan 9 15:15:16 2002	DIFFERENTIAL TENSION
F1:WTBH		Jan 9 15:15:16 2002	TEMPERATURE OF THE BOREHOLE

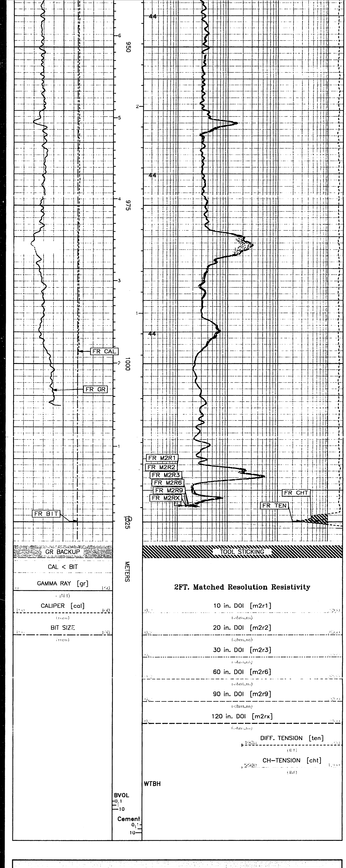
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	20.73	M09X	2.44	M09X	2.44
CAL	20.82	M01	2.44	M09	2.44	TEN	0.00
CHT	0.00	M02	2.44	M09	2.44		

Presentation : /opt/petris/pem/pemonum_J-76/fdl_main.pdf [1:240 Scale]
Plot Interval : 443.713 - 1027.79 Meters

Data File 1 : /opt/petris/pem/pemonum_J-76/lis64605.wtf
Created On : Jan 9 15:13:18 2002
Recovery : PARAMOUNT WIRELINE 1130
Unit : PARAMOUNT WIRELINE J-76
Field : BENC
File Interval : 443.536 - 1027.79 Meters
Bit : gf446


550
575
600
625
650
675
700
725
750
775
800
825
850
875
900
925



REPEAT PASS

May 21, 2001 — Fileview 3.20 — Cplot 5.10 — Wed Jan 9 13:48:02 2002
Hpcplots: 1.c — Forpt /main/53 — Pdf_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/spool/pdf_plots/244004.pre
LOGGING COMPANY: PARAMOUNT ANADARKO BVOC
TOP DEPTH: 840.814 m BOTTOM DEPTH: 1027.481 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (n) TOP	BOTTOM
CHT	FILTER (1)	medium (1)		**	**
GR	FILTER (1)	medium (1)		**	**
Y AXIS CALIPER	FILTER (.)	light (2)		**	**
	FILTER (.)	light (2)		**	**
TENSION	FILTER (.)	light (2)		**	**
	FILTER (.)	medium (1)		**	**

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (n) TOP	BOTTOM
CAS1HG - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	**	**
BIT SIZE	BIT SIZE	311.000	mm	**	**
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mm*)	USE CALIPER		**	**
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm*)	311.000	mm	**	**
MUD VALUES SOURCE	MUD SOURCE (MDL)	OIL BASE MUD		**	**
MUD VALUES	MUD SAMPLE TEMP	25.0	degC	**	**
	MUD SAMPLE RES	10.000	ohmM	**	**
	MUD FILTRATE RES TEMP	25.0	degC	**	**
	TEMP GRADIENT	1.800	0.00 degC/m	**	**

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (n) TOP	BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE BOTEMP		**	**
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		**	**
	ABC to CALCULATE	STANDOFF		**	**
	STANDOFF	38.10	mm	**	**
	TOOL POSITION	ECCENTERED		**	**
	Rmud MULTIPLIER	1.000		**	**

CURVE DESCRIPTION REPORT

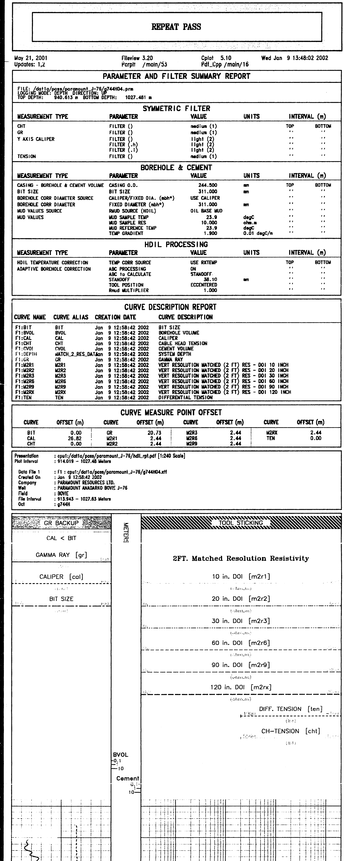
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 12:58:42 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 12:58:42 2002	BOREHOLE VOLUME
F1:CAL	CAL	Jan 9 12:58:42 2002	CALIPER
F1:CHT	CHT	Jan 9 12:58:42 2002	CABLE HEAD TENSION
F1:CWOL	CWOL	Jan 9 12:58:42 2002	CEMENT VOLUME
F1:DEPTH	DEPTH_2_RES_DATUM	Jan 9 12:58:42 2002	MEASURED DEPTH
F1:GR	GR	Jan 9 12:58:42 2002	GAMMA RAY
F1:M2R1	M2R1	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 10 INCH
F1:M2R2	M2R2	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 20 INCH
F1:M2R3	M2R3	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 30 INCH
F1:M2R6	M2R6	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 60 INCH
F1:M2R9	M2R9	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 90 INCH
F1:M2RX	M2RX	Jan 9 12:58:42 2002	VERT. RESOLUTION MATCHED (2 FT) RES = .001 120 INCH
F1:TEN	TEN	Jan 9 12:58:42 2002	DIFFERENTIAL TENSION

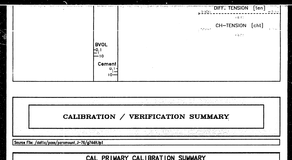
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	20.73	M2R3	2.44	M2RX	2.44
CAL	20.73	M2R1	2.44	M2R6	2.44	TEN	0.00
CHT	0.00	M2R2	2.44	M2R9	2.44		

Presentation : cpcl:/data/pres/paramount_J-76/fdil_opt.pdf [1:240 Scale]
Plot Interval : 914.619 - 1027.48 Meters

Data File 1 : IT1 : cpcl:/data/pres/paramount_J-76/pl44004.eff
Created On : Jan 9 12:58:42 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BVOC J-76
Field : WILDCAT
File Interval : 913.943 - 1027.63 Meters
Dat : gf449





CALIBRATION / VERIFICATION SUMMARY

Route File: /data/pas/personnel-7/GJW8.rpt

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4200SM 043356 — DATE/TIME PERFORMED: Mon Jan 07 14:10:54 2002

UNIT #: 3860TC HL4556

	SMALL RING LARGE RING (ohms)	MULT	ADD	SMALL RING LARGE RING (API)	
CALIPER	4999.4	7370.72	0.04244	-8.22418	220.400	220.600

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4200SM 043356 — DATE/TIME PERFORMED: Wed Jan 09 13:11:33 2002

UNIT #: 3860TC HL4556

	I.D. (in)	MULT	ADD	I.D. (in)	
CALIPER	7632.7	0.04244	-3.53307	220.400	

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4200SM 043356 — DATE/TIME PERFORMED: Wed Jan 09 14:40:05 2002

UNIT #: 3860TC HL4556

	I.D. (in)	MULT	ADD	I.D. (in)	
CALIPER	7732.3	0.04244	-3.53307	222.900	

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 5320HA 116930 — DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001

UNIT #: 3860TC HL5577 CALS JIG #: 4752HK on-300

	BACKGROUND CALIBR ON (cts/s)	CS DIFF (cts/s)	MULT	BACKGROUND CALIBR ON (gAPI)	CALIBR OFF (gAPI)	DIFF. (gAPI)
GR	260.640	1185.840	0.162	42.262	192.262	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 5320HA 116930 — DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001

UNIT #: 3860TC HL5577 VCR1 JIG #: 4752HK on-300

	BACKGROUND CALIBR ON (cts/s)	CALIBR OFF (cts/s)	MULT	BACKGROUND CALIBR ON (gAPI)	CALIBR OFF (gAPI)	DIFF. (gAPI)
GR	264.56	1190.472	0.162	42.912	193.046	150.134

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 5320HA 116930 — DATE/TIME PERFORMED: Wed Jan 09 11:48:52 2002

UNIT #: 3860TC HL4556 VCR1 JIG #: 4752HK on-300

	BACKGROUND CALIBR ON (cts/s)	CALIBR OFF (cts/s)	MULT	BACKGROUND CALIBR ON (gAPI)	CALIBR OFF (gAPI)	DIFF. (gAPI)
GR	197.62	1095.803	0.162	32.054	177.682	145.628

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 5320HA 116930 — DATE/TIME PERFORMED: Wed Jan 09 14:52:09 2002

UNIT #: 3860TC HL4556 VCR1 JIG #: 4752HK on-300

	BACKGROUND CALIBR ON (cts/s)	CALIBR OFF (cts/s)	MULT	BACKGROUND CALIBR ON (gAPI)	CALIBR OFF (gAPI)	DIFF. (gAPI)
GR	213.26	1113.42	0.162	34.58	180.65	146.06

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 5119AA 040871 — DATE/TIME PERFORMED: Sun Dec 02 21:29:04 2001

UNIT #: 3270HA 154483 — GROUND ID #: 3618ss 110980

ZERO DATA(ac)	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 0 Q	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Cell 1 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 1 Q	0.003	0.011	0.000	0.000	0.004	0.000	0.000	-0.005
Cell 2 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 2 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 3 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 3 Q	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cell 4 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 4 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 5 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 5 Q	-0.006	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 6 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 6 Q	-0.321	0.017	-0.006	-0.018	-0.009	0.000	-0.003	0.000

ELEC. GAINS	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 0 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 1 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 1 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 2 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 2 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 3 R	115.355	106.825	89.146	68.113	48.536	26.601	6.359	14.213
Cell 3 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 4 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 4 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 5 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 5 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 6 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 6 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586

AM Factor	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	520	-91	-156	-172	-175	-175	-174	-172
Cell 0 Q	0	0	0	0	0	0	0	0
Cell 1 R	520	-91	-156	-172	-175	-175	-174	-172
Cell 1 Q	0	0	0	0	0	0	0	0
Cell 2 R	520	-91	-156	-172	-175	-175	-174	-172
Cell 2 Q	0	0	0	0	0	0	0	0
Cell 3 R	582	605	727	2677	2066	1886	1370	1151
Cell 3 Q	0	0	0	0	0	0	0	0
Cell 4 R	178.23	28.82	8.3	1.46	-1.5	-3.5	-4.1	-5.1
Cell 4 Q	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116
Cell 5 R	178.23	28.82	8.3	1.46	-1.5	-3.5	-4.1	-5.1
Cell 5 Q	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116
Cell 6 R	178.23	28.82	8.3	1.46	-1.5	-3.5	-4.1	-5.1
Cell 6 Q	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116	0.1116

AM Factor	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	1.0000	0.9985	0.994	0.9943	0.9933	0.9923	0.9923	0.992
Cell 0 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 1 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 1 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 2 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 2 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 3 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 3 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 4 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 4 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 5 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 5 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000
Cell 6 R	0.9953	0.991	0.9873	0.9866	0.9855	0.9845	0.9855	0.9844
Cell 6 Q	0.0000	0.0000	0.000	0.0000	0.0000	0.0000	0.0000	0.000

PHASE	TC10 0	TC10 1	Cal Temp	T Factor
10s	1.9282	0.9999	79.9°	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 5119AA 040871 — DATE/TIME PERFORMED: Wed Jan 09 14:45:51 2002

UNIT #: 3860TC HL4556

ZERO DATA(ac)	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	-2.004	-2.003	-3.003	-3.001	-3.001	0.003	0.003	0.000
Cell 0 Q	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Cell 1 R	0.000	0.001	0.000	-0.003	-0.004	-0.004	-0.004	-0.003
Cell 1 Q	0.003	0.011	0.000	0.000	0.004	0.000	0.000	-0.005
Cell 2 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 2 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 3 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 3 Q	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cell 4 R	-2.000	-2.004	-3.003	-3.003	-3.003	-0.004	0.003	0.000
Cell 4 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 5 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 5 Q	-0.012	0.000	-0.003	-0.006	-0.009	0.000	-0.003	0.000
Cell 6 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 6 Q	-0.321	0.017	-0.006	-0.018	-0.009	0.000	-0.003	0.000

ELEC. GAINS	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 0 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 1 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 1 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 2 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 2 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 3 R	115.355	106.825	89.146	68.113	48.536	26.601	6.359	14.213
Cell 3 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 4 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 4 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 5 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 5 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 6 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 6 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 5119AA 040871 — DATE/TIME PERFORMED: Wed Jan 09 14:52:09 2002

UNIT #: 3860TC HL4556

ZERO DATA(ac)	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	-2.004	-2.003	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 0 Q	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Cell 1 R	0.000	0.001	0.000	-0.003	-0.004	-0.004	-0.004	-0.003
Cell 1 Q	0.003	0.011	0.000	0.000	0.004	0.000	0.000	-0.005
Cell 2 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 2 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 3 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 3 Q	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cell 4 R	-2.000	-2.004	-3.003	-3.003	-3.003	-0.004	0.003	0.000
Cell 4 Q	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000	0.000
Cell 5 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 5 Q	-0.012	0.000	-0.003	-0.006	-0.009	0.000	-0.003	0.000
Cell 6 R	-2.000	-2.004	-3.003	-3.003	-3.003	0.003	0.003	0.000
Cell 6 Q	-0.321	0.017	-0.006	-0.018	-0.009	0.000	-0.003	0.000

ELEC. GAINS	10 Khz	30 Khz	50 Khz	70 Khz	90 Khz	110 Khz	130 Khz	150 Khz
Cell 0 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 0 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 1 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
Cell 1 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 2 R	124.178	122.561	118.331	113.396	109.613	103.856	85.861	87.73
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Cell 3 R	115.355	106.825	89.146	68.113	48.536	26.601	6.359	14.213
Cell 3 Q	-1.577	24.330	40.434	56.473	72.500	87.998	103.560	118.534
Cell 4 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 4 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 5 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 5 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586
Cell 6 R	1132.032	1118.82	1083.8	1054.6	1013.7	964.2	890.92	857.4
Cell 6 Q	8.2191	28.335	42.076	58.853	75.548	91.718	108.124	124.586

Baker Atlas / BAKER HUGHES

COMPANY: PARAMOUNT RESOURCES LTD.
WELL: PARAMOUNT ANSBARO BOVE 2-76
FIELD:
PROVINCE: BOVE
NAT:

FILE NO:
API NO:

LOCATION:
LOC: 1501
SEC: 300 -2-76-6020-12245-00
TWP:
RGE:

ELEVATIONS:
KB 410.2 M
DF
GL 410.0 M
DATE: 9-JAN-2002

BAKER HUGHES

HIGH DEFINITION INDUCTION LOG [tm]
GAMMA RAY LOG
CALIPER LOG

Baker Atlas

N.E.B. COPY

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT

Ver. 5.81

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

OTHER SERVICES
ZDL-CN-GR-XY
MAC-GR-XY
CVL

PERMANENT DATUM: G.L. ELEVATION 412.0 M
LOG MEASURED FROM: K.B. 5.3 M ABOVE P.D.
DRILL MEAS. FROM: KELLY BUSHING

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE		22-JAN-2002	
RUN	TRIP	2	1
SERVICE ORDER		201592	
DEPTH DRILLER		2811.0 M	
DEPTH LOGGER		2811.0 M	
BOTTOM LOGGED INTERVAL		2808.6 M	
TOP LOGGED INTERVAL		1027.2 M	
CASING DRILLER		244.5 MM @ 1027.0 M	@
CASING LOGGER		1027.2 M	
BIT SIZE		222.0 MM	
TYPE FLUID IN HOLE		LIGNITE	
DENSITY	VISCOSITY	0.935 G/CC	53.0 S
PH	FLUID LOSS	N/A	N/A
SOURCE OF SAMPLE		N/A	
RM AT MEAS. TEMP.		N/A	@ N/A
RMF AT MEAS. TEMP.		N/A	@ N/A
RMC AT MEAS. TEMP.		N/A	@ N/A
SOURCE OF RMF	RMC	N/A	N/A
RM AT BHT		N/A	@ 137.4 DEGC
TIME SINCE CIRCULATION		16.5 HOURS	
MAX. RECORDED TEMP.		137.4 DEGC	
EQUIP. NO.	LOCATION	ML 6558	GR, PRAIRIE
RECORDED BY		K.PYKE / L.POULIN	
WITNESSED BY		J.LOADER	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 2 TRIP 1: TIME STOPPED CIRCULATION: 17:00 .22 JAN 2002.

HDIL-MAC-ZDL-CN-GR-XY RECORDED IN COMBINATION.

DEPTH TIED INTO BAKER ATLAS RUN1, LOGGED 9-JAN-2002.
ADDITIONAL DEGAUT TO BOTTOM TO CONFIRM DISCREPANCY BETWEEN WIRELINE AND RIG DEPTHS.
LOG SPLICE @ CASING SHOE. CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA.
ZDL-CN-GR-XY RAN IN TANDEM WITH HDIL TO ASSIST IN THE QC OF THE DATA.
MAC-GR-XY RAN IN STANDALONE MODE WITH HDIL TO ASSIST IN THE QC OF THE DATA.

****
TRUE RESOLUTION - QUALITY PLOT: DISPLAYS THE TRUE RESOLUTION MATCHED (TRM) CURVES WITH 10, 20, 30, 60, 90 AND 120 INCH DEPTH OF INVESTIGATION. THIS PLOT IS RECOMMENDED FOR QUALITY CONTROL AND INTERPRETATION.
DISPLAYS THE TRUE RESOLUTION MATCHED (TRM) CURVES WITH 10, 20, 30, 60, 90 AND 120 INCH DEPTH OF INVESTIGATION. THIS PLOT IS RECOMMENDED FOR QUALITY CONTROL AND INTERPRETATION.
FROM CURVE TO CURVE AS IT DEPENDS ON THE DEPTH OF INVESTIGATION (DOI) AND VERTICAL RESOLUTION (VR) OF EACH CURVE. THIS PLOT IS RECOMMENDED FOR QUALITY CHECK AND SHOULD BE EXAMINED WHENEVER UNEXPLAINED SPIKES OR ANOMALIES APPEAR ON THE MAIN PASS. THIS PLOT IS RECOMMENDED FOR QUALITY CHECK AND SHOULD BE EXAMINED WHENEVER UNEXPLAINED SPIKES OR ANOMALIES APPEAR ON THE MAIN PASS.
RESISTIVITY CURVES IN WATER BEARING ZONES WILL VARY WITH CHANGES IN FORMATION WATER RESISTIVITY.
RESISTIVITY CURVES IN WATER BEARING ZONES WILL VARY WITH CHANGES IN FORMATION WATER RESISTIVITY.
RESISTIVITY CURVES IN WATER BEARING ZONES WILL VARY WITH CHANGES IN FORMATION WATER RESISTIVITY.
RESISTIVITY CONDITIONS AND/OR WELL VERY CONDUCTIVE INVASION EXISTS.
RESISTIVITY CONDITIONS AND/OR WELL VERY CONDUCTIVE INVASION EXISTS.
****

CREW: E. BARRETT, J. SAMAHA RIG: SWINTAH #4E

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	POSITION
2	1	ZDL	4290A	1'-6"FT.,23'FR.
2	1	CDM	3113A	FLOAT
2	1	CDM	3114A	FLOAT
2	1	CNT	3422A	KNUCKLE JOINT
2	1	CNT	3423A	KNUCKLE JOINT
2	1	AIL	2726XA/2726WA	MAG. DECENT
2	1	MAC	1997A	CENTRALIZER
2	1	MAC	1998A	CENTRALIZER
2	1	CTN	3415A	CENTRALIZER
2	1	CTN	3552A/3556A	CENTRALIZER

INSTRUMENT CONFIGURATION

Source File: /data1/geoq/personnel_J-76/hdil-log

MAIN PASS - UPPER PRESENTATION

Mon 21 2001
Updated: 1.2

Flame 5.10
Pegat /main/53

Opal 5.10
Pdl_Copy /main/16

Mon Jan 28 11:50:58 2002

FILE: /data1/geoq/personnel_J-76/pdl/main.pm
LOG PRESENTATION: PARAMOUNT ANADARKO BOVIE J-76
TOP DEPTH: 1027.000 m BOTTOM DEPTH: 2811.000 m

PARAMETER AND FILTER SUMMARY REPORT

SYMMETRIC FILTER VALUE

MEASUREMENT TYPE	PARAMETER	UNITS	INTERVAL (m)	
			TOP	BOTTOM
CHT	FILTER (*)	median (*)	"	"
GR	FILTER (*)	median (*)	"	"
TENSION	FILTER (*)	median (*)	"	"

BOREHOLE & CEMENT VALUE

MEASUREMENT TYPE	PARAMETER	UNITS	INTERVAL (m)	
			TOP	BOTTOM
CALIPER - BOREHOLE & CEMENT VOLUME	FASTMC V.5.	mm	"	"
X-Y CALIPER	X-Y Caliper	Average	"	"
BOREHOLE CORR DIAMETER	CALIPER(FIXED DIA.)	USE CALIPER	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER(FIXED DIA.)	220.000	mm	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm)	220.000	"	"
MUD VALUES	MUD SAMPLE TEMP	0.00 deg/m	deg/	"
	MUD RESISTIVITY (Rm)	0.000 ohm.m	ohm.m	"
	MUD FILTRATE TEMP	0.00 deg/m	deg/	"
	TEMP GRADIENT	1.800	0.01 deg/m	"

HDIL PROCESSING VALUE

MEASUREMENT TYPE	PARAMETER	UNITS	INTERVAL (m)	
			TOP	BOTTOM
TEMPERATURE CORRECTION	TEMPERATURE SOURCE	ON BOTTOM	"	"
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON	"	"
	ABC CALCULATE	STANDARD	"	"
	TOOL STANDOFF	38.10	mm	
	TOOL POSITION	ECCENTERED		
	TOOL ORIENTATION	DECENTERED		

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:13 2002	BIT SIZE
F1:CVOL	CVOL	Jan 28 11:04:13 2002	CEMENT VOLUME
F1:DEPTH	DEPTH	Jan 28 11:04:13 2002	DEPTH FROM TENSION
F1:GR	GR	Jan 28 11:05:08 2002	CALIPER
F1:HTEN	HTEN	Jan 28 11:05:08 2002	HEAD TENSION
F1:MAXCL	MAXCL	Jan 28 11:05:08 2002	MAXIMUM CALIPER
F1:MINCL	MINCL	Jan 28 11:05:08 2002	CEMENT VOLUME
F1:MRES	MRES	Jan 28 11:05:08 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 20 INCH
F1:SRES	SRES	Jan 28 11:05:08 2002	VERT RESOLUTION MATCHED (2 FT) RES = 001 120 INCH
F1:TEN	TEN	Jan 28 11:05:08 2002	MINUTE MARK
		Jan 28 11:10:38 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	MINCL	2.44	MRES	2.44
CAL	21.91	GR	30.10	MRES	2.44	TEN	0.00

Presentation: /data1/geoq/personnel_J-76/pdl/main.pdf [1:600 Scale]
Data Source: /data1/geoq/personnel_J-76/pdl/main.pdf
Data File 1: FILE: /data1/geoq/personnel_J-76/PDLmain.pdf
Created On: Jan 28 11:04:13 2002
Created By: PARAMOUNT ANADARKO BOVIE J-76
Company: PARAMOUNT ANADARKO BOVIE J-76
Well: 1
File Interval: 1027.000 - 2815.59 meters
Cal: gr/hdil

GR BACKUP

CAL < BIT

GAMMA RAY [gr]

BIT SIZE

CALIPER [col]

METERS

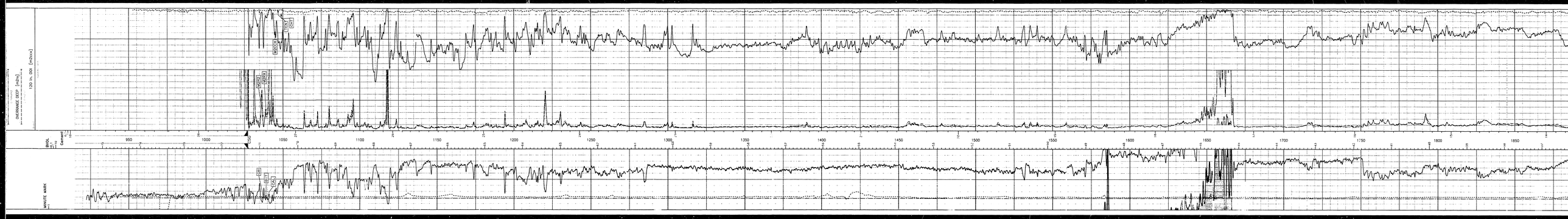
OVERBANK SHALLOW [m2r2]

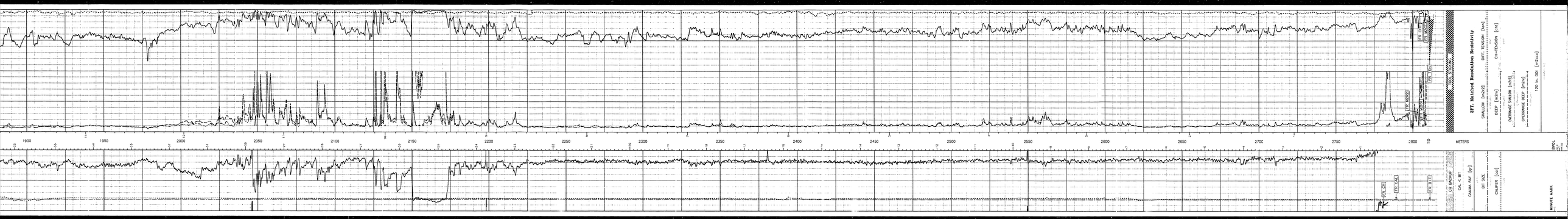
2FT. Matched Resolution Resistivity

SHALLOW [m2r2]

DEEP [m2rx]

CH-TENSION [cht]


DYNAMIC DEP [mPa]
120 in. 100 [m3/cx]
BVOL
Cement
MINUTE MARK
950
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850


2FT, Matched Resolution Resistivity
SHALLOW [mOhm]
DEEP [mOhm]
OVERRANGE SHALLOW [mOhm]
OVERRANGE DEEP [mOhm]
120 in. DOI [mDocc]
DIFF. TENSION [lbs]
CH-TENSION [cts]
FIX CH
FIX WOB
FIX TOR
FIX DIF
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
TD
METERS
GR BACKUP
GAMMA RAY [gr]
CAL < BIT
BIT SIZE
CALIPER [cal]
FIX GR
FIX CAL
FIX BIT
MINUTE MARK
BYDDL

QUALITY CONTROL PLOT

May 21, 2001
Updates: 1,2

Filerev 5.20
Parpif /main/53

Cplot 5.10
Pdf_Cpy /main/16

Mon Jan 28 11:52:16 2002

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pan/personnel_1-76/g778a05.prm
LOG INTERVAL DIRECTION: UP
TOP DEPTH: 852.043 m BOTTOM DEPTH: 2470.099 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CNT	FILTER ( )	medium (1)		TOP	BOTTOM
GR	FILTER ( )	medium (1)		"	"
TENSION	FILTER ( )	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING + BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
6-8 CALIPER	8-1 Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mm/*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED BOREHOLE (mm*)	222.000	mm	"	"
MUD VALUES SOURCE	MUD SOURCE (MUD1)	OIL BASE MUD		"	"
MUD VALUES	MUD SAMPLE TEMP	25.0	degC	"	"
	MUD SAMPLE RES	10.000	ohm.m	"	"
	MUD REFERENCE TEMP	25.0	degC	"	"
	TEMP GRADIENT	0.550	0.01 degC/m	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RSTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC TO CALCULATE	STANDOFF		"	"
	STANDOFF	38.10	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Mrad MULTIPLIER	1.000		"	"
HDIL DIFF TEN LIMIT	DIFF TENSION LIMIT	500		"	"

CURVE DESCRIPTION REPORT

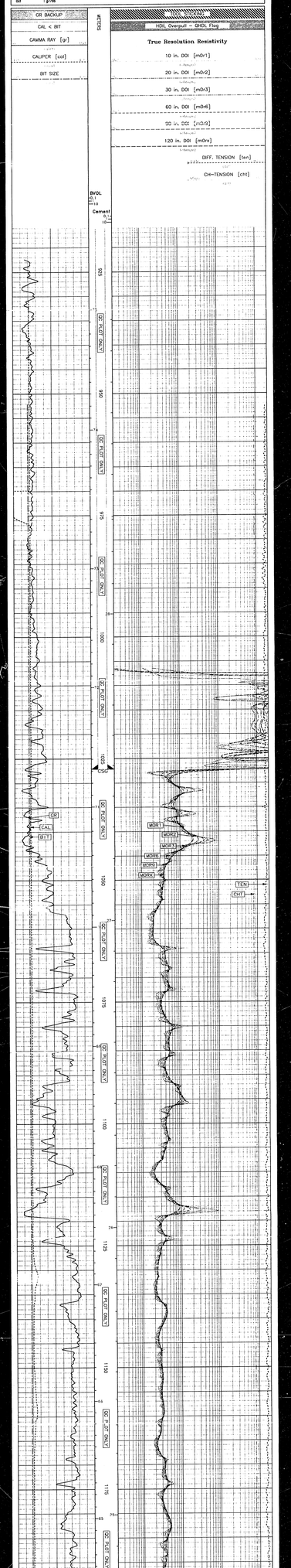
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:19 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:04:20 2002	BOREHOLE VOLUME
F1:CAL	CAL	Jan 28 11:04:21 2002	CALIPER
F1:CHT	CHT	Jan 28 11:04:22 2002	CABLE HEAD TENSION
F1:CVOL	CVOL	Jan 28 11:04:23 2002	CEMENT VOLUME
F1:DEPTH	TRUE_RES_DATA	Jan 28 11:04:43 2002	SYSTEM DEPTH
F1:GR	GR	Jan 28 11:04:44 2002	GAMMA RAY
F1:MDR1	MDR1	Jan 28 11:05:12 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 10 INCH
F1:MDR2	MDR2	Jan 28 11:05:12 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 20 INCH
F1:MDR3	MDR3	Jan 28 11:05:12 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 30 INCH
F1:MDR6	MDR6	Jan 28 11:05:13 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 60 INCH
F1:MDR9	MDR9	Jan 28 11:05:13 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 90 INCH
F1:MDRX	MDRX	Jan 28 11:05:14 2002	TRUE FOCUSED RESISTIVITY FOR HDIL - DOI 120 INCH
F1:QHDL	QHDL	Jan 28 11:07:10 2002	QUALITY FOR FOR DIFFERENTIAL TENSION PULLS FOR HDIL
F1:TEN	TEN	Jan 28 11:10:33 2002	DIFFERENTIAL TENSION

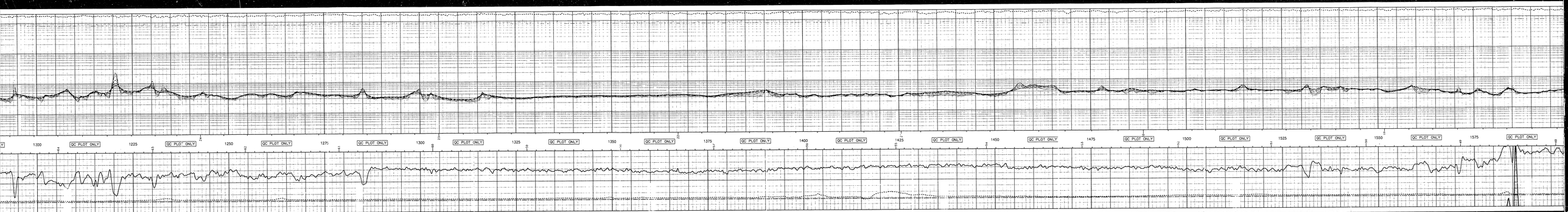
CURVE MEASURE POINT OFFSET

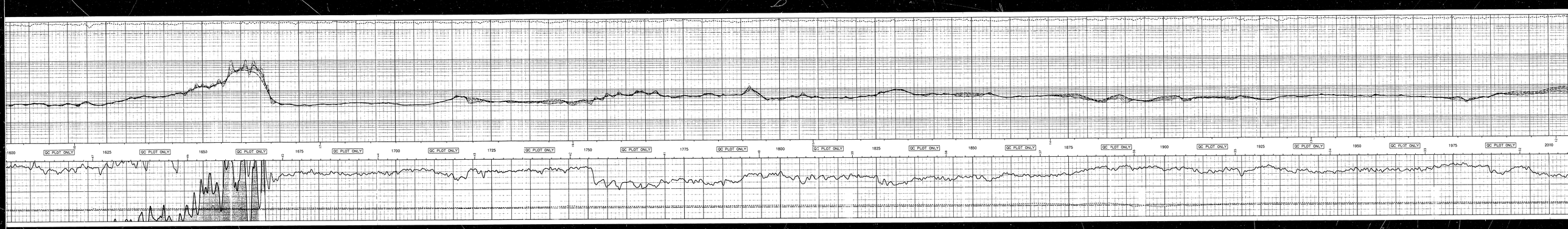
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	30.10	MDR3	2.44	MDRX	2.44
CAL	0.00	MDR1	2.44	MDR6	2.44	QHDL	2.44
CHT	0.00	MDR2	2.44	MDR9	2.44	TEN	0.00

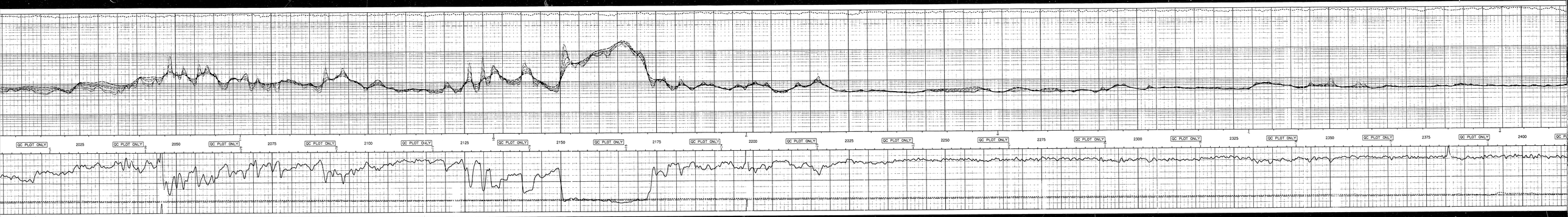
Presentation : /usr/dofs/pan/paramount_2-76/hdil_qc.pdf [1:240 Scale]
Plot Interval : 918.079 - 2815.59 Meters

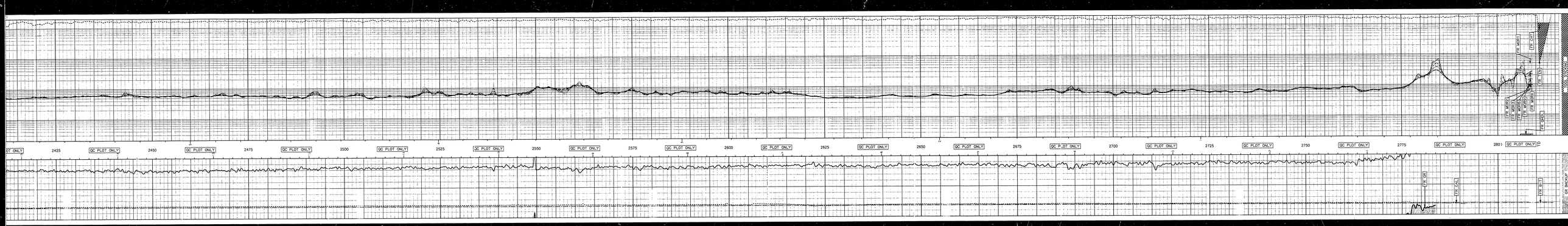
Data File 1 : F1 : /usr/dofs/pan/paramount_1-76/g778a.dfs
Created On : Jan 28 11:04:13 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BRVE J-76
Run : One
File Interval : 918.079 - 2815.59 Meters
Dst : g778b

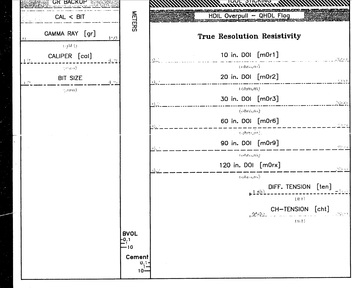



QC_PLOT_ONLY
1200
1225
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1500
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1550
1575


1600
QC PLOT ONLY
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QC PLOT ONLY
1650
QC PLOT ONLY
1675
QC PLOT ONLY
1700
QC PLOT ONLY
1725
QC PLOT ONLY
1750
QC PLOT ONLY
1775
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QC PLOT ONLY
1875
QC PLOT ONLY
1900
QC PLOT ONLY
1925
QC PLOT ONLY
1950
QC PLOT ONLY
1975
QC PLOT ONLY
2010


QC PLOT ONLY
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2175
2200
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2250
2275
2300
2325
2350
2375
2400


QC_PLOT_ONLY
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2700
2725
2750
2775
2800
QC_PLOT_ONLY



MAIN PASS

May 21, 2001 — Filerev 3.20 — Cplot 5.10 — Mon Jan 28 11:32:53 2002
Updates: 1,2 — Purge /mnin/53 — Plt.Cap /mnin/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data1/pemx/penmount_j-76/gf79b05.prn
LOGGING_MODE: DEPTH DIRECTION: Up
TOP DEPTH: 952.043 m BOTTOM DEPTH: 2470.000 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CNT	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
TCHS-CN	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	"	"
3/4 CALIPER	3-7 Caliper	Average		"	"
BIT SIZE	BIT SIZE	152.400	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	BOREHOLE FIXED DIA. (mm*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm*)	222.000	mm	"	"
MUD VALUES SOURCE	RMUD SOURCE (MDL)	DIL BASE MUD		"	"
MUD VALUES	MUD SAMPLE TEMP	23.9	degC	"	"
	MUD SAMPLE RES	10.000	ohm.m	"	"
	MUD REFERENCE TEMP	23.9	degC	"	"
	TEMP GRADIENT	3.800	0.01 degC/m	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		"	"
ADAPTIVE BOREHOLE CORRECTION	BOREHOLE CORR	Average		"	"
	ADD to CALCULATE	STANDOFF		"	"
	STANDOFF	38.10	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

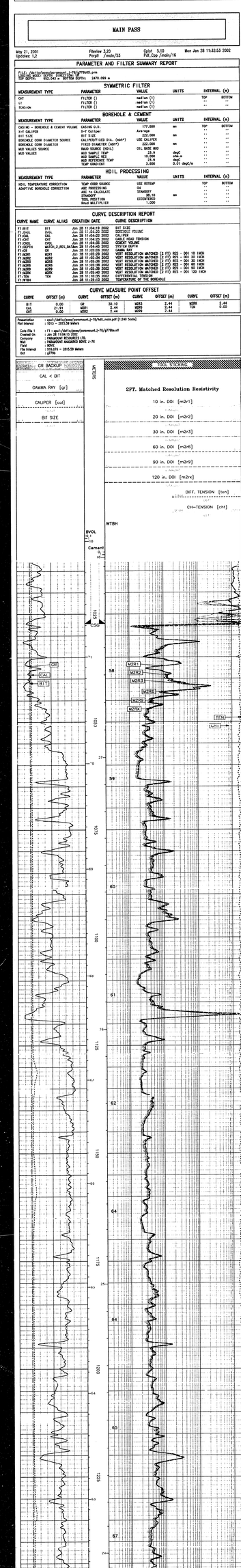
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:19 2002	BIT SIZE
F1:CVOL	CVOL	Jan 28 11:04:22 2002	CASING-HOLE VOLUME
F1:CAL	CAL	Jan 28 11:04:22 2002	CALIPER
F1:CHT	CHT	Jan 28 11:04:23 2002	CABLE HEAD TENSION
F1:CVOL	CVOL	Jan 28 11:04:35 2002	CEMENT VOLUME
F1:DEPTH	MATCH_2_RES_DATA	Jan 28 11:04:45 2002	DEPTH MATCH
F1:GR	GR	Jan 28 11:05:28 2002	GAMMA RAY
F1:M2R1	M2R1	Jan 28 11:05:29 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Jan 28 11:05:34 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Jan 28 11:05:38 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Jan 28 11:05:39 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Jan 28 11:05:39 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Jan 28 11:05:40 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:TEN	TEN	Jan 28 11:05:51 2002	DIFFERENTIAL TENSION
F1:WTBH		Jan 28 11:29:13 2002	TEMPERATURE OF THE BOREHOLE

CURVE MEASURE POINT OFFSET

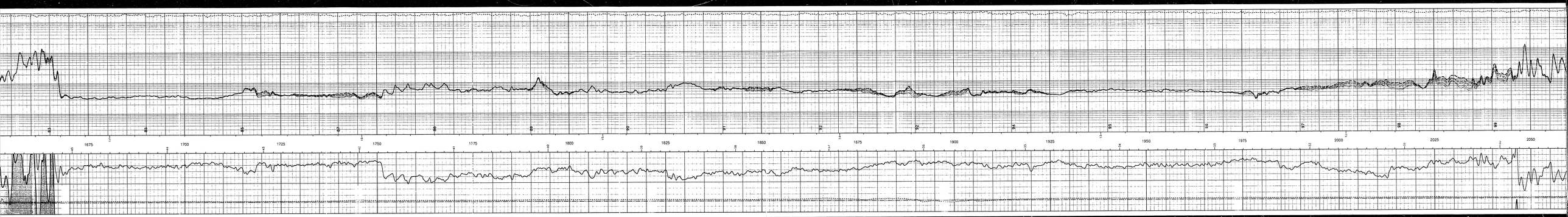
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	30.10	M2R3	2.44	M2RX	2.44
CAL	31.91	M2R1	2.44	M2R6	2.44	TEN	0.00
CHT	0.00	M2R2	2.44	M2R9	2.44		

Presentation : cpu1:/data/pems/penmount_j-76/full_main.pdf [1240 Scale]
Plot Interval : 1013 ~ 2815.59 Meters

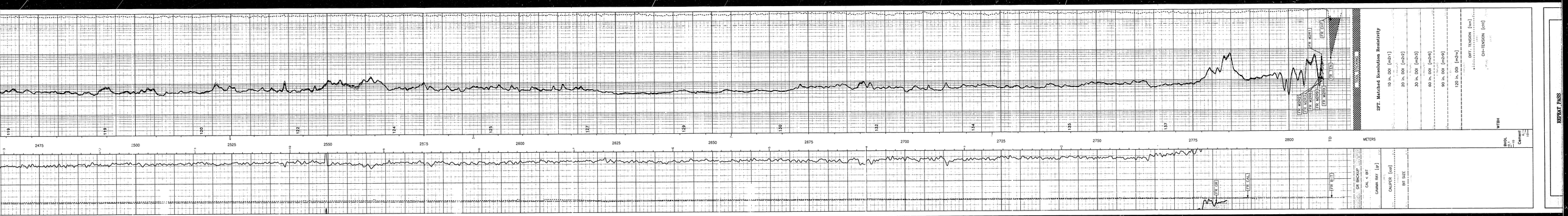
Edit File 1 : f1 = cpu1:/data/pems/penmount_j-76/gf79be.clf
Created On : Jan 28 11:04:13 2002
Company : PARAMOUNT RESOURCES LTD.
Field : PARAMOUNT MACKENZIE BORE J-76
Well :
File Interval : 918.276 ~ 2815.59 Meters
Cal : gf79b




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2775
2800
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125
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130
132
134
135
137
TIE MOD3
TIE CCL4
TIE MOD2
TIE MOD1
TIE MOD4
TIE TEL
TIE CCL
TIE CCL2
TIE CCL3
TIE BIT
2FT. Matched Resolution Resistivity
10 in. DOI [mD1]
20 in. DOI [mD2]
30 in. DOI [mD3]
60 in. DOI [mD4]
90 in. DOI [mD5]
120 in. DOI [mD6]
DIFF. TENSION [lbs]
ON-TENSION [lbs]
WITH
BVOL
Cement
GR BACKUP
CAL < BIT
GAMMA RAY [gr]
CALIPER [cal]
BIT SIZE

REPEAT PASS

PARAMETER and FILTER SUMMARY REPORT

File: /data/pxa/paramount_1-76/gf79b53.pra
LOG MODE : MAIN PASS LOGGING UP
TOP DEPTH: 2795.750 m BOTTOM DEPTH: 2815.438 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CHT	FILTER {}	medium (1)		"	"
GR	FILTER {}	medium (1)		"	"
TENSION	FILTER {}	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mm*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mm*)	222.000	mm	"	"
MUD VALUES SOURCE	MUD SOURCE (MDV/L)	OIL BASE MUD		"	"
MUD VALUES	MUD SAMPLE TEMP	23.0	degC	"	"
	MUD SAMPLE RES	10.000	ohm.m	"	"
	MUD REFERENCE TEMP	23.0	degC	"	"
	TEMP GRADIENT	3.600	0.01 degC/m	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC PROCESSOR	STANDOFF		"	"
	STANDOFF	38.10	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

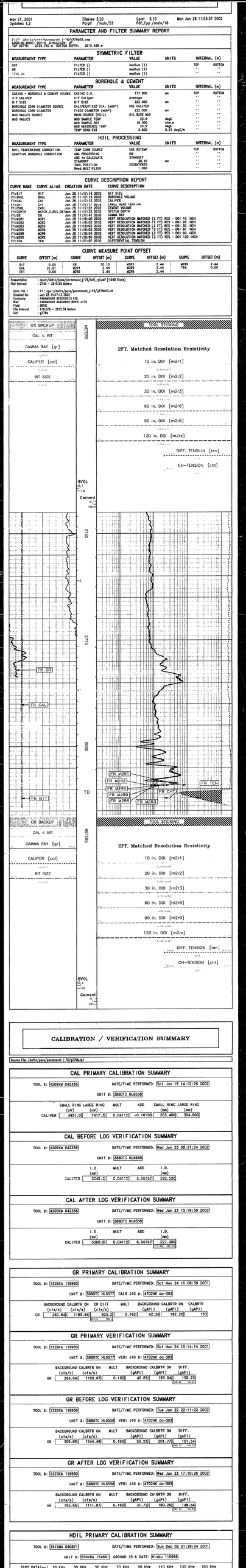
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:17:14 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:17:15 2002	BOREHOLE VOLUME
F1:CAL	CAL	Jan 28 11:17:19 2002	CALIPER
F1:CHT	CHT	Jan 28 11:17:20 2002	CABLE HEAD TENSION
F1:CVOL	CVOL	Jan 28 11:17:22 2002	CEMENT VOLUME
F1:DEPTH	WATCH_2_RES_DA	Jan 28 11:17:22 2002	SYSTEM DEPTH
F1:GR	GR	Jan 28 11:17:41 2002	GAMMA RAY
F1:M2R1	M2R1	Jan 28 11:18:01 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Jan 28 11:18:02 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Jan 28 11:18:02 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Jan 28 11:18:03 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Jan 28 11:18:04 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Jan 28 11:18:05 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:TEN	TEN	Jan 28 11:21:07 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	32.46	M2R1	2.44	M2R6	2.44
CAL	21.34	M2R1	2.44	M2R2	2.44	TEN	0.00
CHT	0.00	M2R2	2.44	M2R3	2.44		

Presentation : cpui:/data/pxa/paramount_1-76/hilt_ytj.pdf [1240 Scale]
Plot Interval : 2745 - 2815.50 Meters

Data File 1 : f1:cpui:/data/pxa/paramount_1-76/gf79b53.xtf
Created On : Jan 28 11:57:12 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT HAZARAC BOYE J-76
Field : BOYE
File Interval : 2816.078 - 2815.59 Meters
Dat : gf79b



CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pxa/paramount_1-76/gf79b.tpl

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Sat Jan 19 14:12:26 2002
UNIT #: 3880TC HL6558

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	4951.0	7417.3	0.04112	-0.16150	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 23 08:21:24 2002
UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	5249.3	0.04112	6.56157	222.500

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 23 15:19:59 2002
UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	5268.8	0.04112	6.56157	227.300

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001
UNIT #: 3880TC HL6577 CALB JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	OR DIFF (cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	CALIBRTR ON (gAPI)	CALIBRTR (gAPI)
GR	260.64	1185.84	925.2	0.162	42.26	192.26	150
			925.2	150.0			

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001
UNIT #: 3880TC HL6577 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	264.04	1190.67	0.162	42.81	193.04	150.23
					42.81	150.23

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Tue Jan 22 22:11:22 2002
UNIT #: 3880TC HL6558 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	309.80	1244.49	0.162	50.23	201.77	151.54
					50.23	151.54

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Wed Jan 23 17:10:26 2002
UNIT #: 3880TC HL6558 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	265.58	1111.82	0.162	31.72	180.26	148.54
					181.94	149.56

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 040871 DATE/TIME PERFORMED: Sun Dec 02 21:29:04 2001
UNIT #: 3010RA 154661 GROUND ID & DATE: N1464u 110696

ZERO DATA(cps) 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.005	-0.004	-0.003	-0.002	-0.001	0.002	0.002	0.000
Coil 0 Q	0.003	0.006	0.005	0.001	0.000	-0.001	-0.001	-0.002
Coil 1 R	0.014	0.012	0.005	0.002	-0.001	-0.002	-0.004	-0.007
Coil 1 Q	0.003	0.011	0.009	0.006	0.004	0.000	-0.002	-0.005
Coil 2 R	0.004	0.003	-0.002	0.000	0.000	-0.003	0.000	0.002
Coil 2 Q	-0.005	-0.002	0.001	0.003	0.000	-0.001	-0.004	-0.002
Coil 3 R	-0.003	0.000	-0.001	0.001	0.000	0.000	0.000	-0.002
Coil 3 Q	0.004	-0.004	0.002	0.003	-0.002	0.000	0.001	0.001
Coil 4 R	0.005	0.002	0.000	-0.003	-0.003	-0.004	-0.003	0.002
Coil 4 Q	-0.007	0.004	0.005	0.006	-0.001	-0.004	-0.002	-0.006
Coil 5 R	0.010	0.005	0.013	-0.002	-0.004	-0.009	-0.005	-0.005
Coil 5 Q	-0.008	-0.003	-0.003	0.000	0.000	0.000	0.000	0.000
Coil 6 R	-0.021	0.017	-0.006	-0.010	-0.020	0.001	-0.002	-0.003
Coil 6 Q	-0.001	-0.002	0.007	-0.003	0.002	-0.024	-0.006	-0.009

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	124.17	122.56	119.51	115.06	109.61	103.05	95.86	87.73
Coil 0 P	7.677	24.238	40.434	56.471	72.309	87.998	103.380	118.634
Coil 1 M	218.01	215.28	210.00	202.23	192.72	180.86	167.97	153.54
Coil 1 P	7.787	24.378	41.019	57.314	73.516	89.512	105.208	120.640
Coil 2 M	458.90	434.66	426.45	414.35	398.60	378.56	356.03	329.16
Coil 2 P	7.412	23.460	39.220	54.972	70.641	86.354	101.796	117.319
Coil 3 M	715.35	706.62	690.14	666.13	636.54	600.01	559.95	514.23
Coil 3 P	7.783	24.599	41.055	57.399	73.557	89.638	105.422	121.149
Coil 4 M	1132.40	1118.65	1092.55	1055.30	1008.15	954.26	894.50	829.41
Coil 4 P	8.010	25.207	42.076	58.805	75.340	92.158	108.574	124.949
Coil 5 M	2266.5	2236.7	2181.9	2100.1	1999.5	1876.8	1742.2	1589.8
Coil 5 P	8.367	26.197	43.706	61.086	78.300	95.585	112.161	128.841
Coil 6 M	5880.6	5809.0	5674.5	5474.8	5224.1	4915.7	4575.4	4179.6
Coil 6 P	8.243	26.099	43.596	61.005	78.301	95.505	112.507	129.472

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	520	-91	-158	-172	-175	-173	-174	-173
Coil 0 Q	2243	8111	455	286	184	113	57	11
Coil 1 R	582	85	21	0	-10	-16	-19	-22
Coil 1 Q	1551	501	372	287	206	186	137	115
Coil 2 R	178.2	25.9	8.0	1.6	-1.3	-3.0	-4.1	-5.1
Coil 2 Q	340.6	141.7	91.9	70.0	57.9	50.7	46.4	43.4
Coil 3 R	45.6	6.4	1.5	-0.4	-1.4	-1.7	-2.0	-1.9
Coil 3 Q	39.4	22.8	18.6	17.3	18.0	19.0	19.9	21.0
Coil 4 R	11.29	1.03	-0.56	-1.14	-1.37	-1.52	-1.64	-1.75
Coil 4 Q	-10.18	2.00	5.61	8.43	11.01	13.40	15.05	18.44
Coil 5 R	1.56	-0.12	-0.56	-0.56	-0.59	-0.72	-0.80	-0.79
Coil 5 Q	10.30	7.04	8.76	9.58	12.05	14.25	15.57	18.76
Coil 6 R	-1.94	-0.76	-0.78	-0.78	-0.92	-0.90	-0.93	-0.93
Coil 6 Q	-7.99	0.44	3.97	6.70	9.23	11.65	14.30	16.62

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	1.000	0.998	0.994	0.994	0.993	0.992	0.992	0.992
Coil 0 P	0.078	0.200	0.303	0.273	0.234	0.183	0.158	0.176
Coil 1 M	0.993	0.991	0.987	0.986	0.985	0.983	0.983	0.984
Coil 1 P	0.080	0.230	0.337	0.305	0.265	0.227	0.128	0.157
Coil 2 M	1.010	1.007	1.008	1.005	1.004	1.003	1.004	1.001
Coil 2 P	0.025	0.076	0.119	0.173	0.195	0.240	0.152	0.178
Coil 3 M	1.019	1.018	1.017	1.017	1.017	1.017	1.018	1.018
Coil 3 P	0.003	0.014	0.023	0.019	-0.042	-0.097	-0.120	-0.026
Coil 4 M	1.041	1.023	1.022	1.022	1.022	1.021	1.021	1.020
Coil 4 P	0.040	0.063	0.064	0.103	0.122	0.078	0.064	0.053
Coil 5 M	1.031	1.031	1.031	1.030	1.030	1.031	1.030	1.030
Coil 5 P	0.070	-0.012	0.029	0.028	-0.009	-0.076	-0.052	-0.061
Coil 6 M	1.021	1.023	1.022	1.020	1.021	1.026	1.026	1.025
Coil 6 P	0.016	0.071	-0.014	0.048	-0.078	-0.198	-0.194	-0.318

PARMS	TCID 0	TCID 1	Col Temp deg C	T Factor
IDs	1.828	0.869	19.9	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: [1515MA 040871] DATE/TIME PERFORMED: [Wed Jan 23 08:43:04 2002]

UNIT #: [3880TC HL6558]

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.005	-0.002	-0.002	-0.001	-0.001	0.001	0.001	0.001
Coil 0 Q	0.004	0.006	0.005	0.001	0.001	0.000	-0.001	-0.002
Coil 1 R	0.002	0.002	0.000	0.000	0.000	-0.001	-0.004	-0.003
Coil 1 Q	0.001	0.008	0.004	0.003	0.002	0.004	0.003	0.001
Coil 2 R	-0.008	-0.002	-0.004	-0.004	-0.003	-0.003	-0.004	-0.003
Coil 2 Q	-0.004	-0.003	0.000	-0.002	-0.003	-0.003	-0.004	-0.002
Coil 3 R	0.003	0.000	-0.002	-0.001	0.000	0.000	0.000	0.001
Coil 3 Q	-0.008	-0.006	0.001	0.000	-0.002	0.000	0.000	0.000
Coil 4 R	-0.008	-0.006	-0.005	-0.004	-0.003	-0.004	-0.003	-0.001
Coil 4 Q	-0.001	0.000	0.000	0.000	-0.001	-0.004	-0.003	-0.001
Coil 5 R	0.001	0.003	0.009	0.001	0.002	-0.003	-0.007	-0.004
Coil 5 Q	0.004	-0.001	0.006	0.006	0.005	0.000	-0.002	-0.002
Coil 6 R	-0.027	0.007	-0.024	-0.016	-0.013	-0.020	0.006	0.005
Coil 6 Q	-0.005	0.001	-0.012	0.025	0.005	-0.012	0.012	0.004

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	124.00	122.36	119.39	115.00	109.61	103.03	95.82	87.71
Coil 0 P	7.677	24.215	40.408	56.447	72.288	87.981	103.415	118.621
Coil 1 M	218.08	215.29	210.15	202.44	192.97	181.08	168.22	153.83
Coil 1 P	7.789	24.596	41.081	57.437	73.633	89.703	105.485	121.114
Coil 2 M	438.93	434.56	426.65	414.31	398.91	378.82	356.18	329.19
Coil 2 P	7.432	23.517	39.349	55.139	70.886	86.631	102.187	117.755
Coil 3 M	717.92	709.13	692.87	669.72	639.52	602.29	562.00	515.80
Coil 3 P	7.794	24.625	41.095	57.453	73.625	89.722	105.523	121.270
Coil 4 M	1133.2	1120.0	1093.8	1056.7	1012.9	956.0	892.5	819.0
Coil 4 P	8.013	25.254	42.166	59.001	75.708	92.402	108.880	125.350
Coil 5 M	2273.8	2244.4	2189.6	2108.5	2008.4	1885.5	1750.0	1596.9
Coil 5 P	8.373	26.258	43.809	61.245	78.502	95.871	112.555	129.270
Coil 6 M	5893.1	5821.4	5685.7	5487.1	5238.8	4930.6	4584.8	4188.2
Coil 6 P	8.258	26.179	43.745	61.235	78.578	95.869	112.837	129.965

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: [1515MA 040871] DATE/TIME PERFORMED: [Wed Jan 23 17:10:14 2002]

UNIT #: [3880TC HL6558]

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.001	-0.002	-0.003	-0.002	0.000	0.000	0.000	-0.003
Coil 0 Q	0.003	0.006	0.004	0.001	0.000	0.001	0.002	0.000
Coil 1 R	0.008	0.003	0.002	0.000	0.000	0.000	0.000	-0.003
Coil 1 Q	0.003	0.006	0.004	0.005	0.004	0.003	0.004	0.000
Coil 2 R	-0.002	-0.002	-0.005	-0.003	-0.003	-0.003	-0.001	-0.002
Coil 2 Q	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.002
Coil 3 R	-0.002	-0.003	-0.003	-0.002	0.002	-0.001	-0.004	-0.005
Coil 3 Q	-0.002	0.001	0.000	0.000	-0.002	-0.002	-0.002	-0.002
Coil 4 R	-0.007	0.001	0.000	0.000	-0.002	-0.002	-0.002	0.002
Coil 4 Q	-0.005	-0.003	0.000	0.001	0.001	-0.002	-0.001	-0.001
Coil 5 R	-0.001	-0.002	-0.006	-0.004	-0.007	-0.013	-0.012	-0.012
Coil 5 Q	0.004	0.000	-0.001	-0.004	-0.003	0.000	-0.001	0.000
Coil 6 R	0.003	0.000	-0.006	-0.021	-0.012	-0.007	0.014	0.012
Coil 6 Q	0.001	0.001	-0.004	-0.009	-0.016	-0.007	0.009	0.017

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	124.08	122.41	119.28	114.82	109.30	102.74	95.52	87.52
Coil 0 P	7.711	24.342	40.571	56.604	72.454	88.086	103.492	118.589
Coil 1 M	217.91	215.04	209.60	201.84	192.09	180.47	167.49	153.04
Coil 1 P	7.826	24.671	41.155	57.469	73.624	89.567	105.334	120.763
Coil 2 M	438.78	434.56	425.78	413.40	397.45	377.57	354.82	328.39
Coil 2 P	7.443	23.539	39.372	55.161	70.906	86.429	101.950	117.296
Coil 3 M	716.40	707.46	690.37	666.09	635.56	599.29	558.66	513.65
Coil 3 P	7.789	24.598	41.208	57.547	73.742	89.743	105.576	121.127
Coil 4 M	1132.5	1118.5	1092.5	1055.3	1008.5	951.9	888.7	816.0
Coil 4 P	8.054	25.305	42.236	59.004	75.708	92.261	108.717	124.968
Coil 5 M	2270.0	2239.6	2182.4	2100.4	1998.0	1873.5	1740.3	1589.9
Coil 5 P	8.406	26.354	43.852	61.228	78.455	95.470	112.305	128.817
Coil 6 M	5884.4	5810.3	5669.2	5468.8	5214.1	4906.5	4563.7	4173.6
Coil 6 P	8.286	26.216	43.757	61.149	78.446	95.530	112.632	129.461

BAKER HUGHES — Baker Atlas

COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADARKO BOYE J-76
FIELD	BOYE
PROVINCE	NWT
LOCATION:	ELEVATIONS:
LSD: 300-J-76-60220-12245-00	KB 417.3 m
	DF
	GL 412.0 M
	DATE 22-JAN-2002

FILE NO:

API NO:

RUN NO.	DATE	MAX. REC. TEMP. (deg. C)	ELEVATION (K.B.)	PERMANENT DATUM	LOG MEASURED FROM	DRILLING MEASURED FROM
ONE	07-FEB-2002	69	413.0 m	G.L.	K.B.	G.L.

TYPE FLUID IN HOLE	DENSITY (kg/m3)	VISCOSITY (s)	PH	FLUID LOSS (ml)	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE RM	SOURCE RMF	SOURCE RMC	RM @ BHT	RMF @ BHT	RMC @ BHT
KCL/POLYMER	1100	70	9.5	4.0	MUD PIT	0.060 @ 20.0 C	0.050 @ 20.0 C	0.070 @ 20.0 C	MEAS.	MEAS.	MEAS.	0.030 @ 69.0 C	0.025 @ 69.0 C	0.035 @ 69.0 C

TIME CIRCULATION STOPPED	TIME LOGGER ON BOTTOM	MAX. REC. TEMP. (deg. C)	EQUIPMENT NUMBER	LOCATION	RECORDED BY	WITNESSED BY
06-FEB-2002 24:00	07-FEB-2002 03:30	69	1009	1409	E. BARRETT	J. SAMACA

TOOL STRING (TOP TO BOTTOM)	VENDOR	TOOL TYPE	TOOL SERIAL NO.	TOOL DIAMETER	TOOL WEIGHT	TOOL LENGTH
ECS	SCHLUMBERGER	ECS-A	1009	3.625 in	1000 lbm	30.0 ft
HNGS	SCHLUMBERGER	HNGS	1409	3.625 in	1000 lbm	30.0 ft

BIT SIZE	FROM	TO
8.500 in	0.0 m	3501.0 m

CASING OR LINER	SIZE	WEIGHT	GRADE	FROM	TO
CASING	13.375 in	68.00 lbm/ft	K-55	0.0 m	1000.0 m
CASING	9.625 in	47.00 lbm/ft	L-80	0.0 m	3500.0 m

OPEN HOLE	FROM	TO
OPEN HOLE	3500.0 m	3501.0 m

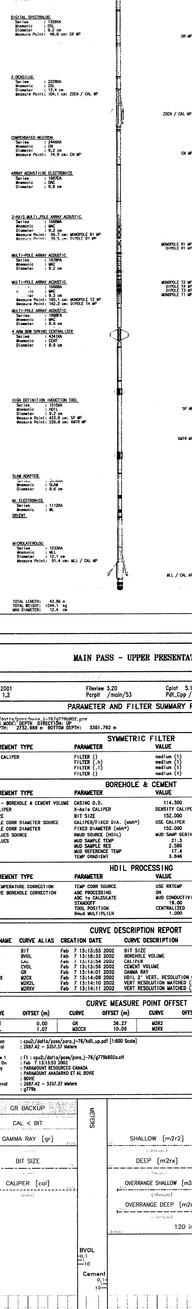
REMARKS
RUN 3 TRP 1 : TIME STOPPED CIRCULATION: 05-FEB-2002 / 24:00 HOURS
W.=HDIL=AAC=ZDL=CN=DI=HT RECORDED IN COMBINATION.
BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA. HDIL RECORDED WITH AND CORRECTED TO 0.75 INCH (19 MM) STANDOFF. AVERAGE CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA. SP NOT PRESENTED ON MAIN PASS FOR INITIAL FIELD AND LOGSTAR COPIES DUE TO COMPUTER ERRORS - PRESENTLY TRYING FIX.
********** DISPLAYS THE TRUE RESOLUTION MATCHED (TRT) CURVES WITH 10, 20, 30, 60, 90 AND 120 INCH RESOLUTIONS. THE OBJECTIVE OF INVESTIGATION THESE HIGH RESOLUTION CURVES IS TO ASSIST WITH THE DETERMINATION OF THE OPTIMUM DEPTH OF CASING SETTING BETWEEN 1.0 AND 2.0 TIMES THE DOI. THESE TRT CURVES PROVIDE AN EXCELLENT QUALITY CHECK AND SHOULD BE EXAMINED WHENEVER UNEXPLAINED SPIKES OR ANOMALIES APPEAR ON THE MAIN VERTICAL RESOLUTION MATCHED (VRM) CURVES - DUE TO BAD HOLE CONDITIONS, WASHOUTS, ETC. **********
100 SACKS OF BARRITE ADDED TO HOLE.
CREW: E. BARRETT, J. SAMACA RIG: SIDTAN BW

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CALI	1009AA	1009AA	1-ARM CALIPER
1	1	TEMP	1081AA	1081AA	FIELD
1	1	CCMC	1009AA	1009AA	FIELD
1	1	CNTH	1153AA	1153AA	FIELD
1	1	HNGT	1662AA	1662AA	KNUCKLE JOINT
1	1	CN	1409AA	1409AA	DETONATOR
1	1	CNL	2220EA/2220MA	1409AA / 1409AY	HNGS SONDE
1	1	HNGS	1409AA	1409AA	HNGS SONDE
1	1	MCC	1153AA	1153AA	CENTRALIZER
1	1	CCMY	4341BA	4341BA	CENTRALIZER
1	1	MCC	1153AA	1153AA	CENTRALIZER
1	1	HDIL	1009AA	1009AA	ACCELERATOR
1	1	MCC	1153AA	1153AA	CENTRALIZER
1	1	MCC	1153AA	1153AA	CENTRALIZER
1	1	HDIL	1153AA/1154AA	1009AA / 1153AA/1154AA	38 GM SONDE
1	1	AAC	1153AA	1153AA	38 GM SONDE
1	1	ZDL	1112BA/1009AA	1009AA/1009AY	38 GM SONDE

INSTRUMENT CONFIGURATION

Source File /data/ecs/16995/hdt-log



MAIN PASS - UPPER PRESENTATION

May 21, 2001 — Fileview 3.20 — Cplot 5.10 — Thu Feb 7 15:55:01 2002
Updates: 1,2 — Purple /main/53 — Pdl_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /data/ecs/dwo/pcs_j-76/p778ds02.pre
Well Name: PARAMOUNT ANASARO 87-E
TOP DEPTH: 3782.969 m BOTTOM DEPTH: 3501.792 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER (X)	median (X)		"	"
	FILTER (X)	median (X)		"	"
	FILTER (X)	median (X)		"	"
CH	FILTER (X)	median (X)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm	"	"
BIT CALIPER	X-RAY CALIPER	SCHEDULE CALIPER		"	"
BIT SIZE	BIT SIZE	152.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (ask*)	CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (ask*)	152.000	mm	"	"
MUD VALUES SOURCE	MUD VALUES SOURCE	MUD DATA SCANNED		"	"
MUD VALUES	MUD SAMPLE TEMP	21.000	degC	"	"
	MUD SAMPLE RES	2.588	ohm.m	"	"
	MUD REFERENCE TEMP	17.44	degC	"	"
	TEMP GRADIENT	0.048	0.01 degC/m	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RATSAP		"	"
ADAPTIVE BOREHOLE CORRECTION	ADAPTIVE BHC	ON		"	"
	ADC %/DEGREASE	BOR CONDUCTIVITY		"	"
	STANDOFF	19.00	mm	"	"
	TOOL POSITION	CENTRALIZED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

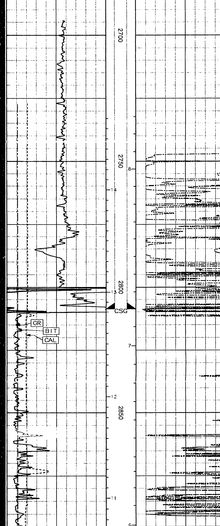
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 15:15:55 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 15:16:31 2002	BOREHOLE VOLUME
F1:CHSL	CHSL	Feb 7 15:16:31 2002	CEMENT SLOWN
F1:CVOL	CVOL	Feb 7 15:15:55 2002	CEMENT VOLUME
F1:GR	GR	Feb 7 15:14:01 2002	GAMMA RAY
F1:HDDCX	MDCX	Feb 7 15:14:08 2002	HDIL 2' VERT. RESOLUTION COMPRESSED COND.-120" INVESTIGATION
F1:HZRO	WDRXL	Feb 7 15:14:10 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:HZRO	WDRXV	Feb 7 15:14:11 2002	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH

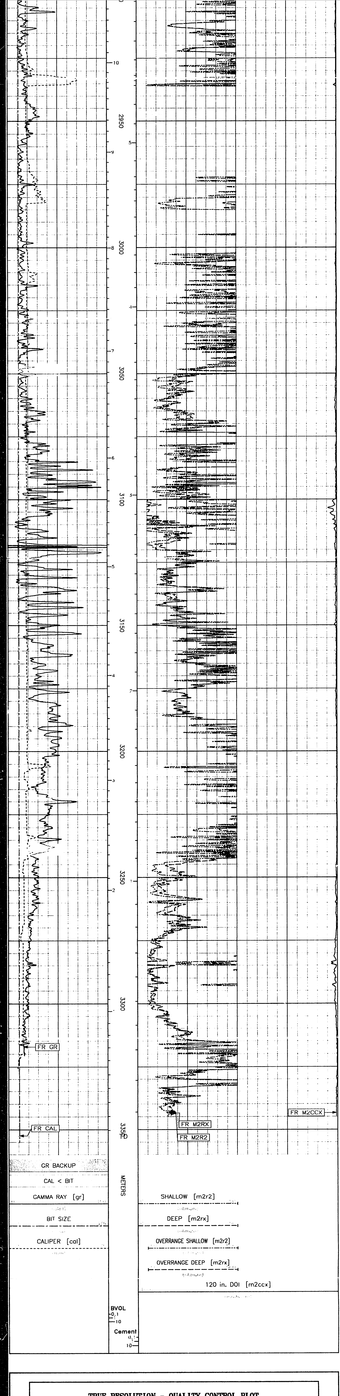
CURVE MEASURE POINT OFFSET

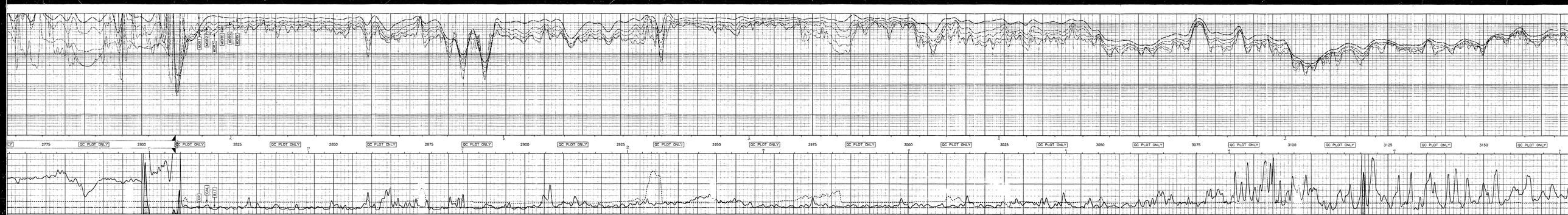
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	36.37	MDR2	10.06		
CAL	1.07	MDCX	10.06	MDRX	10.06		

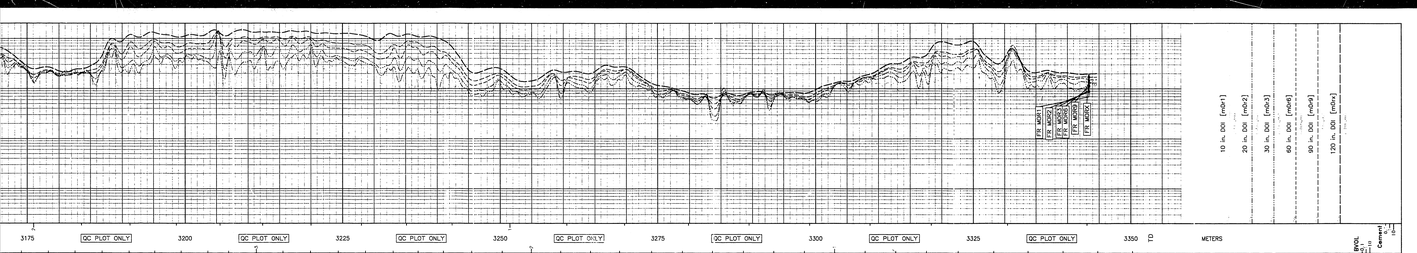
Presentation: c:\pcs2\data\pcs\pcs_j-76\hdl_up.pdf (1:600 Scale)
Plot Interval: 2557.42 - 3357.37 Meters

Data File 1: f1: cpcs2\data\pcs\pcs_j-76\p778ds02a.xtf
Created On: Feb 7 15:15:55 2002
Company: PARAMOUNT RESOURCES CANADA
Well: PARAMOUNT ANASARO ET AL DOME
Field: ANASARO
File Interval: 2557.42 - 3357.37 Meters
Bit: p778s




TRUE RESOLUTION - QUALITY CONTROL PLOT
May 21, 2001
Updates: 1,2
FileView 3.20
Forpit /main/53
Cpint 5.10
Pdf_Cpp /main/16
Thu Feb 7 13:56:06 2002
PARAMETER AND FILTER SUMMARY REPORT
SYMMETRIC FILTER
BOREHOLE & CEMENT
HDIL PROCESSING
CURVE DESCRIPTION REPORT
CURVE MEASURE POINT OFFSET
GR BACKUP
CAL < BIT
GAMMA RAY [gr]
BIT SIZE
CALIPER [cal]
SHALLOW [m2r2]
DEEP [m2rx]
OVERRANCE SHALLOW [m2r3]
OVERRANCE DEEP [m2rx]
120 in, DOI [m2cx]
10 in, DOI [m0r1]
20 in, DOI [m0r2]
30 in, DOI [m0r3]
60 in, DOI [m0r6]
90 in, DOI [m0r9]
120 in, DOI [m0rx]
BVOL
Cement
FR GR
FR CAL
FR M2CCX
FR M2RX
FR M2R2
MET/MIN
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500


QC PLOT ONLY
2775
2800
2825
2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150



MAIN PASS

Run 1, 2001
No Logging Event

Elevation 3.00
Depth Datum RKB

Depth = 3.10
Log Measured From 0.00 ft

Thu Feb 7 13:57:03 2002

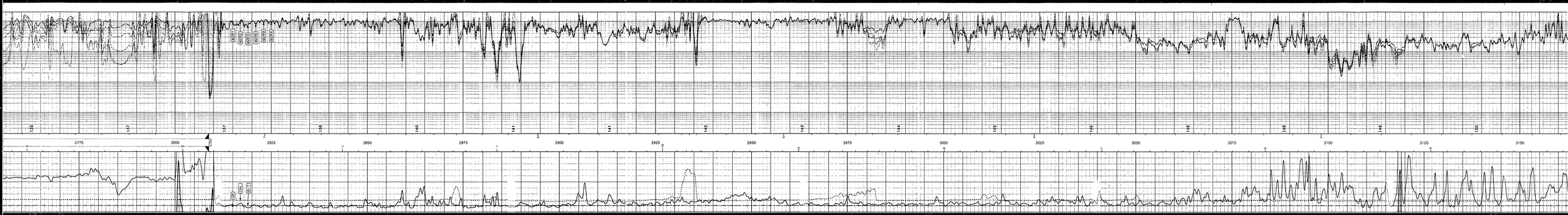
PARAMETER AND FILTER SUMMARY REPORT

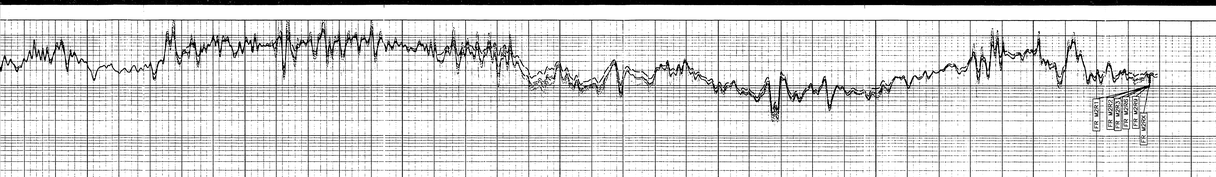
Cable Head Tension	1000 lbf	Speed	30 ft/min
Max Speed	200 ft/min	Max Tension	2000 lbf
Min Speed	20 ft/min	Min Tension	1000 lbf

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
X AXIS GAUGER	FILTER (A)	median (s)		...	...
	FILTER (B)	median (s)		...	...
GR	FILTER (C)	median (s)		...	...

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CASING - BOREHOLE & ASSOCIATED VOLUME	CASING O.D.	114.300	mm	...	...
	CASING WEIGHT	16.070 KG/M		...	...
	BIT SIZE	152.000	mm	...	...
	BOREHOLE FLUID TYPE (GEN*)	WATER BASED MUD		...	...
	BOREHOLE FLUID DENSITY	1.20	SG	...	...
	BOREHOLE SIGNATURE	152.200	mm	...	...
	MUD SAMPLE SOURCE	MUD PIT SAMPLED		...	...
	MUD RESISTIVITY	2.5	ohm.m	...	...
	MUD SAMPLE TEMPERATURE	24.0	degC	...	...
	MUD VISCOSITY	3.448	mPa.s	...	...
	MUD PH	9.00	pH	...	...

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
MUD TEMPERATURE (MEASURED)	TEMPERATURE OF MUD SAMPLE	24.0	degC	...	...
MUD RESISTIVITY (MEASURED)	RESISTIVITY OF MUD SAMPLE	2.5	ohm.m	...	...
MUD FILTRATE RESISTIVITY (MEASURED)	RESISTIVITY OF MUD FILTRATE	2.5	ohm.m	...	...
MUD CAKE RESISTIVITY (MEASURED)	RESISTIVITY OF MUD CAKE	2.5	ohm.m	...	...
MUD CAKE THICKNESS (MEASURED)	THICKNESS OF MUD CAKE	1.5	mm


136
137
138
140
141
142
143
144
145
146
148
149
150
2775
2800
2825
2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150



REPEAT PASS – 6 CURVE PRESENTATION

May 21, 2001
Update 1.2

Flopner 120
Survey Name: Rpt2

Spar - 3.19
Mean Sea Level

Thu Feb 7 15:51:10 2002

PARAMETER AND FILTER SUMMARY REPORT

Lde_Alpha\Flopner\Lde\Design.prm
Last edited: 2001/5/4 at 16:07:04 by: Dan Hill prm

MEASUREMENT TYPE	PARAMETER	SYMMETRIC FILTER	UNITS	INTERVAL (ft)
				TOP BOTTOM
X AXIS CALIPER	FILTER 1	median (1)		
	FILTER 2	median (1)		
	FILTER 3	median (1)		
Gr	FILTER 4	median (1)		
Tool Fce	FILTER 5	median (1)		

MEASUREMENT TYPE	PARAMETER	BOREHOLE & CEMENT	UNITS	INTERVAL (ft)
CASING / BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm	TOP BOTTOM
	BIT CALIPER	DEFAULT CALIPER	mm	
	BOREHOLE DIAMETER	DEFAULT CALIPER	mm	
	BOREHOLE SIDE DIAMETER	CAL < BIT	mm	
	FIXED DIAMETER (Hole)	CAL < BIT + 25.400	mm	
	CASING WEIGHT (Lbs/ft)	23.220	Lbs/ft	
	ABS GAMMA TEMP	25.0	degC	
	TOOL HOUSING TEMP	25.0	degC	
	MUD DENSITY	2.63	Kg/Ltr	
		0.00	mg/Ltr	

MEASUREMENT TYPE	PARAMETER	HOIL PROCESSING	UNITS	INTERVAL (ft)
HOIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE KSTMP		TOP BOTTOM
	CORR. TEMPERATURE	25	degC	
ALBATYR BOREHOLE CORRECTION	ABS. RESISTIVITY	0% CONDUCTIVITY	mS	
	TOOL DIAMETER	120.000		
	TOOL POSITION	CENTRALIZED		
	TOOL EXCENTRICITY	0.000		

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
P1:BIT	BIT	01-01-00 00:00	BIT SIZE VOLUME
P1:CAL	CAL	01-01-00 00:00	CALIPER
P1:CAL_CAL	CAL_2_BIT	01-01-00 00:00	CALIPER DIFF
P1:GR	GR	01-01-00 00:00	GAMMA RAY
P1:HDEN	HDEN	01-01-00 00:00	DENSITY
P1:HDEN	HDEN	01-01-00 00:00	DENSITY
P1:HDEN	HDEN	01-01-00 00:00	DENSITY
P1:HDEN	HDEN	01-01-00 00:00	DENSITY
P1:TEN	TEN	01-01-00 00:00	DIFFERENTIAL TENSION

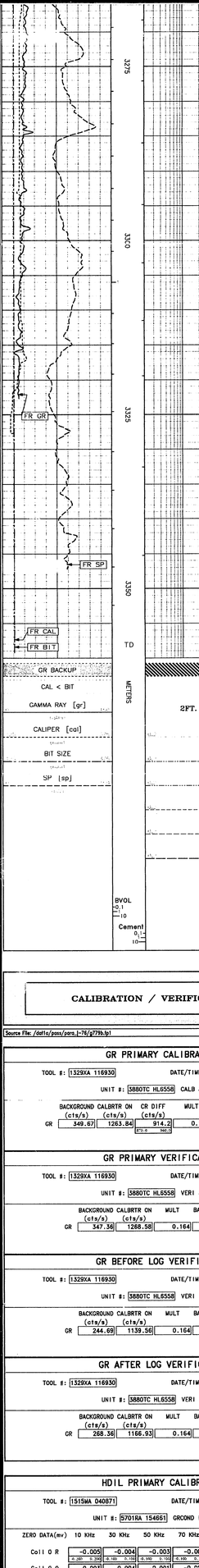
CURVE MEASURE POINT OFFSET

CURVE NAME	CURVE ALIAS	CURVE DATUM	OFFSET (ft)	CURVE NAME	CURVE ALIAS	CURVE DATUM	OFFSET (ft)
CAL	CAL	KBE	15.08	GR	GR	KBE	15.08
CAL_CAL	CAL_2_BIT	KBE	15.08	TEN	TEN	KBE	15.08

Parameter: 3175.0MTR/3350.0MTR/0.1MTR/1.0MTR
Curve: 3175.0MTR/3350.0MTR/0.1MTR/1.0MTR
Survey: RUN 1 - 3350.0 Metres
Log: Rpt2
File: Rpt2.dlis
Format: Rpt2.prm

File: Lde_Alpha\Flopner\Lde\Rpt2.dlis
Created: 2001/5/4 at 16:07:04 by: Dan Hill
Flopner RESERVES CHANNEL
Flopner RESERVES CHANNEL
Rpt2 - 3350.0 Metres

2Ft. Matched Resolution Resistivity



CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/para_1-76/g77tb.lp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Thu Jan 31 13:34:33 2002

UNIT #: 3880TC HL6558 — CALB JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTN ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	349.67	1263.84	914.2	0.164	57.37	207.37	150
		873.6	966.5				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Thu Jan 31 13:48:42 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	347.36	1266.58	0.164	56.99	208.15	151.16
					145.65	160.55

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Wed Feb 06 14:27:22 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	244.69	1139.56	0.164	40.15	186.98	146.83
					141.76	152.15

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Wed Feb 06 23:24:16 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	268.36	1166.93	0.164	44.03	191.47	147.44
					136.83	154.53

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: 1515MA 040871 — DATE/TIME PERFORMED: Sun Dec 02 21:29:04 2001

UNIT #: 5701RA 154661 — GROUND ID & DATE: Wisku 110696

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.005	-0.004	-0.003	-0.002	-0.001	0.002	0.002	0.000
Coil 0 Q	0.003	0.004	-0.001	-0.003	-0.002	-0.001	0.000	0.002
Coil 1 R	0.014	0.012	0.005	0.002	-0.001	-0.002	-0.004	-0.002
Coil 1 Q	0.003	0.011	0.009	0.008	0.006	0.004	0.000	-0.005
Coil 2 P	0.004	0.003	-0.002	0.000	0.000	-0.003	0.000	0.002
Coil 2 Q	-0.005	-0.002	0.001	0.002	0.000	-0.001	-0.004	-0.002
Coil 3 R	0.003	0.000	-0.001	0.001	0.000	-0.002	-0.001	-0.001
Coil 3 Q	-0.004	-0.004	0.002	0.003	-0.002	0.000	0.001	-0.002
Coil 4 R	0.005	0.002	0.000	-0.003	-0.003	-0.004	-0.003	0.002
Coil 4 Q	-0.007	0.004	0.005	0.006	-0.001	-0.004	-0.002	-0.008
Coil 5 R	0.010	0.005	0.013	-0.002	-0.004	-0.009	-0.005	-0.005
Coil 5 Q	-0.006	-0.003	0.003	0.006	0.001	0.003	0.001	-0.003
Coil 6 R	-0.021	0.017	-0.006	-0.010	-0.020	0.001	-0.002	0.000
Coil 6 Q	-0.001	-0.002	0.007	-0.003	0.002	-0.024	-0.006	-0.009

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	124.17	122.56	119.51	115.08	109.61	103.05	95.86	87.73
Coil 0 P	7.677	24.230	40.434	56.471	72.309	87.908	103.380	118.634
Coil 1 M	218.01	215.26	210.00	202.23	192.72	180.86	167.97	153.34
Coil 1 P	7.787	24.578	41.019	57.342	73.514	89.516	105.206	120.840
Coil 2 M	438.96	434.66	426.48	414.32	398.60	378.56	356.03	329.15
Coil 2 P	7.412	23.460	39.220	54.972	70.641	86.354	101.796	117.319
Coil 3 M	715.35	706.62	690.14	666.13	636.54	600.01	559.95	514.23
Coil 3 P	7.783	24.599	41.055	57.399	73.557	89.636	105.422	121.149
Coil 4 M	1132.0	1118.6	1093.8	1056.8	1010.7	954.2	890.4	817.4
Coil 4 P	8.010	25.205	42.076	58.857	75.540	92.158	108.574	124.989
Coil 5 M	2265.5	2236.7	2181.9	2100.1	1999.5	1876.8	1742.2	1589.8
Coil 5 P	8.367	26.197	43.706	61.088	78.300	95.385	112.161	128.841
Coil 6 M	5880.6	5809.6	5674.5	5474.8	5224.1	4915.7	4575.4	4179.6
Coil 6 P	8.243	26.099	43.596	61.005	78.301	95.505	112.507	129.472

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	520	-91	-158	-172	-175	-175	-174	-173
Coil 0 Q	2245	811	455	286	184	112	57	11
Coil 1 R	582	35	21	0	-10	-16	-19	-22
Coil 1 Q	450	29	119	43	52	52	52	52

Coil 1 Q	1551	601	372	267	206	166	137	115
	2000	800	500	400	300	250	200	200
Coil 2 R	178.2	28.9	8.0	1.6	-1.3	-3.0	-4.1	-5.1
	200.0	40.0	10.0	10.0	10.0	10.0	10.0	10.0
Coil 2 Q	340.6	141.7	91.9	70.0	57.9	50.7	46.4	43.4
	1000.0	1000.0	500.0	500.0	500.0	500.0	500.0	500.0
Coil 3 R	45.8	6.6	1.5	-0.2	-1.1	-1.7	-2.2	-1.9
	60.0	10.0	2.5	2.5	2.5	2.5	2.5	2.5
Coil 3 Q	39.4	22.8	18.6	17.7	18.0	19.0	19.9	21.0
	1400.0	200.0	40.0	20.0	10.0	10.0	10.0	10.0
Coil 4 R	11.29	1.03	-1.57	-1.58	-1.14	-1.52	-1.64	-1.75
	5.00	10.00	4.00	2.00	2.00	2.00	2.00	2.00
Coil 4 Q	-10.18	2.05	5.61	8.43	11.01	13.40	16.05	18.44
	-134.20	-10.00	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00
Coil 5 R	1.56	-0.12	-0.56	-0.56	-0.59	-0.72	-0.80	-0.79
	2.00	5.00	3.00	2.00	4.00	3.00	3.00	3.00
Coil 5 Q	10.30	7.04	8.24	9.94	12.05	14.25	16.37	18.76
	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Coil 6 R	-1.94	-0.76	-0.78	-0.78	-0.92	-0.79	-0.83	-0.95
	4.00	1.00	5.00	2.00	5.00	7.00	7.00	7.00
Coil 6 Q	-7.99	0.44	3.97	6.70	9.23	11.65	14.30	16.62
	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00

MW Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	1.000	0.998	0.994	0.994	0.993	0.992	0.992	0.992
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 0 P	0.078	0.200	0.303	0.273	0.234	0.185	0.158	0.176
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 1 M	0.993	0.991	0.987	0.986	0.985	0.983	0.983	0.984
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 1 P	0.090	0.230	0.317	0.306	0.302	0.227	0.203	0.227
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 2 M	1.010	1.007	1.006	1.005	1.004	1.003	1.003	1.002
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 2 P	0.025	0.076	0.119	0.173	0.151	0.154	0.152	0.145
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 3 M	1.019	1.018	1.017	1.017	1.017	1.017	1.018	1.018
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 3 P	0.003	0.014	0.023	0.019	0.042	-0.097	-0.120	-0.026
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 4 M	1.024	1.023	1.022	1.022	1.022	1.021	1.021	1.020
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 4 P	0.040	0.063	0.064	0.105	0.103	0.097	0.064	0.055
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 5 M	1.031	1.031	1.031	1.030	1.030	1.031	1.030	1.030
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 5 P	0.070	-0.012	0.029	0.028	-0.009	-0.076	-0.052	-0.061
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000
Coil 6 M	1.021	1.023	1.022	1.020	1.021	1.028	1.026	1.023
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 6 P	0.016	0.071	-0.014	0.048	-0.078	-0.198	-0.194	-0.318
	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000	0.000 2.000

	PARMS	TCID 0	TCID 1	Cal Temp deg C	T Factor
	IDs	1.828	0.869	19.9	1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 040871 DATE/TIME PERFORMED: Wed Feb 06 19:07:36 2002

UNIT #: 3880TC HL6558

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.003	-0.003	-0.002	-0.003	-0.005	-0.002	-0.003	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 0 Q	0.004	0.006	0.002	0.001	0.001	0.000	-0.001	-0.001
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 R	-0.004	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	-0.005
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 Q	0.000	0.003	0.001	0.002	0.001	0.003	0.001	0.001
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	-0.002	0.001	-0.003	-0.002	-0.002	-0.002	-0.002	0.000
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.004	-0.002	-0.001	0.002	-0.003	-0.004	-0.005	-0.004
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 R	-0.001	0.003	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 Q	-0.007	-0.003	0.000	0.004	0.002	0.001	0.001	0.001
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 4 R	-0.005	0.006	-0.002	-0.002	-0.004	-0.003	-0.003	0.000
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 4 Q	-0.009	0.003	0.000	-0.003	-0.002	-0.005	-0.008	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 5 R	-0.004	0.001	-0.002	0.000	-0.006	-0.007	-0.007	-0.004
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.002	0.002	-0.004	0.006	-0.004	-0.004	-0.008	-0.004
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 6 R	-0.027	0.011	-0.007	-0.004	-0.007	-0.030	0.004	-0.006
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 6 Q	-0.006	-0.022	0.022	0.023	0.020	-0.014	0.001	0.015
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	123.78	122.18	119.25	114.91	109.54	102.98	95.78	87.61
	100.00 150.00	100.00 150.00	98.00 150.00	93.00 150.00	87.00 150.00	80.00 150.00	72.00 135.00	64.00 135.00
Coil 0 P	7.704	24.418	40.779	56.979	73.540	89.916	104.000	119.996
	5.000 9.000	19.000 29.000	31.000 47.000	44.000 66.000	57.000 85.000	72.000 102.000	82.000 126.000	93.000 146.000
Coil 1 M	218.25	215.51	210.42	202.83	193.34	181.55	168.59	153.72
	177.00 265.00	177.00 265.00	173.00 260.00	167.00 250.00	159.00 240.00	150.00 225.00	139.00 210.00	127.00 190.00
Coil 1 P	7.815	24.744	41.350	57.829	74.177	90.391	106.366	122.135
	5.000 9.000	19.000 29.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 103.000	81.000 129.000	95.000 146.000
Coil 2 M	439.60	435.27	427.44	415.17	399.66	379.53	356.61	329.46
	350.00 540.00	350.00 540.00	340.00 530.00	330.00 510.00	320.00 490.00	300.00 460.00	280.00 430.00	260.00 400.00
Coil 2 P	7.458	23.702	39.679	55.618	71.522	87.435	103.190	118.907
	5.000 9.000	18.000 28.000	31.000 46.000	43.000 64.000	55.000 83.000	67.000 100.000	78.000 125.000	91.000 140.000
Coil 3 M	723.05	714.24	698.01	673.89	644.01	608.78	565.99	519.11
	580.00 870.00	580.00 870.00	560.00 840.00	540.00 810.00	520.00 780.00	490.00 740.00	460.00 690.00	420.00 630.00
Coil 3 P	7.842	24.851	41.533	58.077	74.482	90.786	106.841	122.790
	5.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	58.000 89.000	72.000 110.000	83.000 130.000	98.000 150.000
Coil 4 M	1135.4	1122.3	1097.9	1061.5	1015.6	958.7	894.7	820.4
	900.00 1400.00	900.00 1400.00	860.00 1300.00	830.00 1300.00	800.00 1200.00	750.00 1200.00	700.00 1100.00	650.00 1000.00
Coil 4 P	8.051	25.436	42.485	59.457	76.347	93.198	109.884	126.510
	5.000 10.000	20.000 30.000	33.000 50.000	47.000 70.000	60.000 91.000	73.000 113.000	86.000 133.000	100.000 154.000
Coil 5 M	2285.0	2259.8	2201.4	2121.0	2020.6	1900.9	1780.3	1605.1
	1800.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2600.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	8.422	26.446	44.137	61.731	79.174	96.509	113.592	130.515
	5.000 10.000	20.000 30.000	34.000 51.000	48.000 72.000	62.000 94.000	75.000 116.000	89.000 138.000	103.000 159.000
Coil 6 M	5903.3	5832.3	5698.9	5499.8	5251.9	4938.1	4593.2	4191.3
	4700.0 7400.0	4700.0 7400.0	4500.0 7100.0	4400.0 6600.0	4200.0 6400.0	3900.0 6000.0	3700.0 5600.0	3400.0 5200.0
Coil 6 P	8.314	26.392	44.124	61.757	79.315	96.809	114.075	131.319
	7.000 10.000	21.000 31.000	35.000 54.000	51.000 74.000	65.000 96.000	78.000 119.000	94.000 140.000	109.000 161.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 040871 DATE/TIME PERFORMED: Wed Feb 06 21:58:35 2002

UNIT #: 3880TC HL6558

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.001	-0.001	-0.002	-0.001	-0.005	-0.003	-0.003	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 0 Q	0.004	0.005	0.002	0.002	0.001	0.000	-0.001	-0.001
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 R	0.000	0.000	0.002	0.000	-0.002	-0.003	-0.006	-0.006
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 Q	0.001	0.003	0.002	0.003	0.005	0.003	0.002	0.001
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	-0.004	0.000	-0.001	0.000	-0.002	-0.002	-0.004	-0.004
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.004	0.000	0.003	0.001	-0.002	-0.001	-0.004	-0.004
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 R	-0.003	-0.003	0.002	0.001	0.003	0.001	0.001	-0.003
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 3 Q	-0.004	0.004	0.000	-0.004	-0.007	-0.004	-0.005	-0.004
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 4 Q	-0.010	-0.002	0.004	0.001	0.009	0.000	-0.002	0.000
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 5 R	0.004	0.014	0.007	-0.001	-0.004	-0.005	-0.010	-0.009
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.007	-0.004	0.001	0.014	0.000	0.000	-0.003	-0.002
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 6 R	-0.001	0.002	-0.007	0.003	-0.021	-0.011	-0.015	0.017
	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 6 Q	-0.018	-0.001	0.028	0.025	0.003	-0.008	0.006	0.015
	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	123.64	121.96	118.63	114.20	108.50	102.04	94.57	86.56
	100.00 150.00	100.00 150.00	98.00 150.00	93.00 150.00	87.00 150.00	80.00 150.00	72.00 135.00	64.00 135.00
Coil 0 P	7.774	24.720	41.248	57.482	73.504	89.440	105.178	120.940
	5.000 9.000	19.000 29.000	31.000 47.000	44.000 66.000	57.000 85.000	72.000 102.000	82.000 126.000	93.000 146.000
Coil 1 M	218.25	215.36	209.59	201.81	191.75	180.11	166.66	152.08
	177.00 265.00	177.00 265.00	173.00 260.00	167.00 250.00	159.00 240.00	150.00 225.00	139.00 210.00	127.00 190.00
Coil 1 P	7.815	25.043	41.814	58.327	74.685	90.889	106.894	122.726
	5.000 9.000	20.000 29.000	32.000 48.000	45.000 67.000	57.000 86.000	70.000 103.000	81.000 129.000	95.000 146.000
Coil 2 M	439.89	435.25	425.93	413.27	396.46	376.50	352.61	325.84
	350.00 540.00	350.00 540.00	340.00 530.00	330.00 510.00	320.00 490.00	300.00 460.00	280.00 430.00	260.00 400.00
Coil 2 P	7.556	24.023	40.170	56.138	72.128	87.972	103.833	119.324
	5.000 9.000	18.000 28.000	31.000 46.000	43.000 64.000	55.000 83.000	67.000 100.000	78.000 125.000	91.000 140.000
Coil 3 M	725.46	716.12	697.47	672.62	640.61	603.71	561.09	514.96
	580.00 870.00	580.00 870.00	560.00 840.00	540.00 810.00	520.00 780.00	490.00 740.00	460.00 690.00	420.00 630.00
Coil 3 P	7.927	25.170	42.008	58.582	75.074	91.299	107.471	123.185
	5.000 10.000	20.000 29.000	33.000 49.000	46.000 69.000	58.000 89.000	72.000 110.000	83.000 130.000	98.000 150.000
Coil 4 M	1135.7	1121.7	1093.6	1056.1	1007.3	951.0	884.5	811.6
	900.00 1400.00	900.00 1400.00	860.00 1300.00	830.00 1300.00	800.00 1200.00	750.00 1200.00	700.00 1100.00	650.00 1000.00
Coil 4 P	8.143	25.746	42.958	59.965	76.932	93.715	110.505	126.924
	5.000 10.000	20.000 30.000	33.000 50.000	47.000 70.000	60.000 91.000	73.000 113.000	86.000 133.000	100.000 154.000
Coil 5 M	2289.9	2259.0	2197.3	2114.8	2007.9	1885.9	1745.3	1591.1
	1800.0 2800.0	1800.0 2800.0	1800.0 2700.0	1800.0 2600.0	1700.0 2600.0	1600.0 2400.0	1500.0 2200.0	1400.0 2100.0
Coil 5 P	8.521	26.766	44.628	62.249	79.780	97.041	114.253	130.945
	5.000 10.000	20.000 30.000	34.000 51.000	48.000 72.000	62.000 94.000	75.000 116.000	89.000 138.000	103.000 159.000
Coil 6 M	5903.6	5827.2	5673.8	5471.2	5218.5	4896.0	4535.9	4141.3
	4700.0 7400.0	4700.0 7400.0	4500.0 7100.0	4400.0 6600.0	4200.0 6400.0	3900.0 6000.0	3700.0 5600.0	3400.0 5200.0
Coil 6 P	8.409	26.715	44.627	62.298	79.941	97.357	114.793	131.753
	7.000 10.000	21.000 31.000	35.000 54.000	51.000 74.000	65.000 96.000	78.000 119.000	94.000 140.000	109.000 161.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Thu Jan 17 02:35:59 2002

UNIT #: 3880TC HL6558

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	1604.0	2173.1	0.17852	-83.13259	203.200	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 14:54:10 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	1693.1	0.17852	51.37951	153.200

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 21:56:21 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	939.9	0.17852	-32.27835	135.514

BAKER HUGHES

Baker Atlas

COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ANADARKO BOVIE J-76
FIELD BOVIE
PROVINCE NWT

FILE NO:
API NO:

LOCATION:
LIC:
LSD: 30-1-76-0020-17245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 06-Feb-2002

SONIC

BAKER HUGHES

Magic

Multiple Array Acoustilog

Baker Atlas

FILE NO: 1845
API NO:

COMPANY: PARAMOUNT RESOURCES LTD.
WELL: PARAMOUNT ANADARKO BOVIE
FIELD: BOVIE
PROVINCE: NWT

N.E.B. COPY

Ver. 3.81

LOCATION:
LAT: 782'
UWI: 300-J-76-6020-12245-00

OTHER SERVICES
ZDL-CN-GR-WF
HDIL-GR-CAL
CNL

PERMANENT DATUM: G.L. ELEVATION 412.0 M
LOG MEASURED FROM: K.B. 5.3 M ABOVE P.D.
DRILL MEAS. FROM: KELLY BUSHING

ELEVATIONS:
KB 417.3 M
DF
GL 412.

DATE		9-JAN-2002	
RUN	TRIP	1	1
SERVICE ORDER		201 3	
DEPTH DRILLER		1027.5 M	
DEPTH LOGGER		1025.0 M	
BOTTOM LOGGED INTERVAL		1009.8 M	
TOP LOGGED INTERVAL		511.5 M	
CASING DRILLER		339.7 MM @511.0 M	@
CASING LOGGER		511.5 M	
BIT SIZE		311.0 MM	
TYPE OF FLUID IN HOLE		INVERT	
DENSITY	VISCOSITY	0.990 G/C3	N/A
PH	FLUID LOSS	N/A	N/A
SOURCE OF SAMPLE		N/A	
RM AT MEAS. TEMP.		N/A @N/A	@
RMF AT MEAS. TEMP.		N/A @N/A	@
RMC AT MEAS. TEMP.		N/A @N/A	@
SOURCE OF RMF	RMC	N/A N/A	
RM AT BHT		N/A @44.3 DEGC	@
TIME SINCE CIRC.	2H	8.0 HOURS	
MAX. RECORDED	T°	44.3 DEGC	
EQUIP. NO	LTION	FL 1556	DR PRAIRIE
RECORDED BY		K. PAGE	
WITNESSED BY		J. LOADER	

IN ADDITION TO LIMITATIONS OF LOSS OUR SERVICES IN LOG FORM OR INTERPRETATION ARE ACCEPTED AT YOUR AND YOUR AGENTS OWN RISK. WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES.

REMARKS

RUN 1 TRIP 1 : LOG ANALYST: LULUAN DAKUSU

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	POSITION
		ZDL	1616	
		CNL	1616	
		HDIL	1616	
		ACCEL	1616	
		CAL	1616	
		GR	1616	
		SONIC	1616	
		SONIC	1616	
		TEMP	1616	
		CCL	1616	
		GR	1616	
		SONIC	1616	
		SONIC	1616	
		TEMP	1616	
		CCL	1616	

CENTRALIZERS
CCL ON TOOL
CCL ON TOOL
CCL ON TOOL
ALL AS SURVEY

Computed Sloneess Curves

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	SRC
	0.00		SRC
BIT	29.80	BIT	SRC
CALI	29.80		

CURVE	OFFSET (m)
CURVE	29.73
CURVE	29.80
GR	0.00
SONIC	13.41

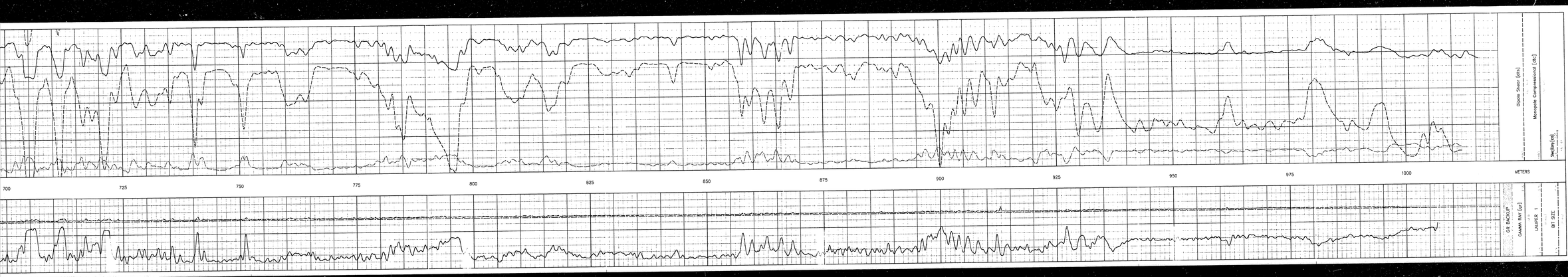
Type: Normal
Format: Image
Remarks: Analog Field Data
Logging Engineer: Luluan Dakusu
Interpreter: Mr. Lee
Data Type: Recorded
Description: 1 ft : 5 inches in Depth
Run Number: 1
Company: PARAMOUNT ANADARKO BOVIE
Well: J-76
Field: Bovie
Location: 64 33 23 - 123 43 37 Meters
Province: NWT
Permanent Datum: G.L.
Log Measured From: K.B. 5.3 Meters Above P.D.
Drilling Measured From: Kelly Bushing

Dipole Shear [dts]
Monopole Compressional [dtc]
Res/Perm [mD]

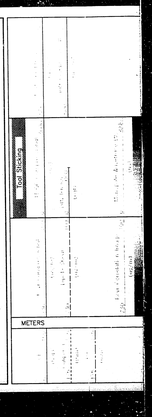
METERS

450 475 500 525 550 575 600 625 650 675

GR BACKUP
GAMMA RAY [gr]
CALIPER 1
BIT SIZE



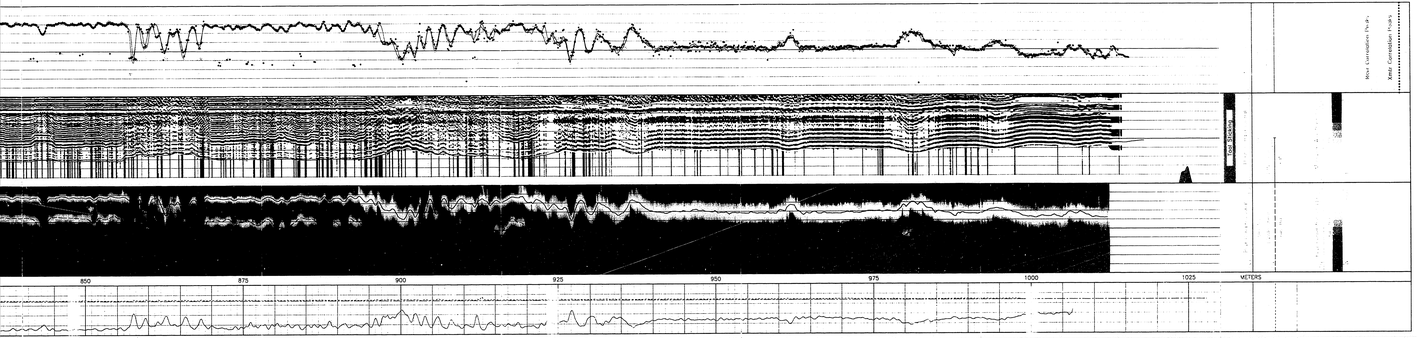
Monopole Waveform – Quality Control Plot



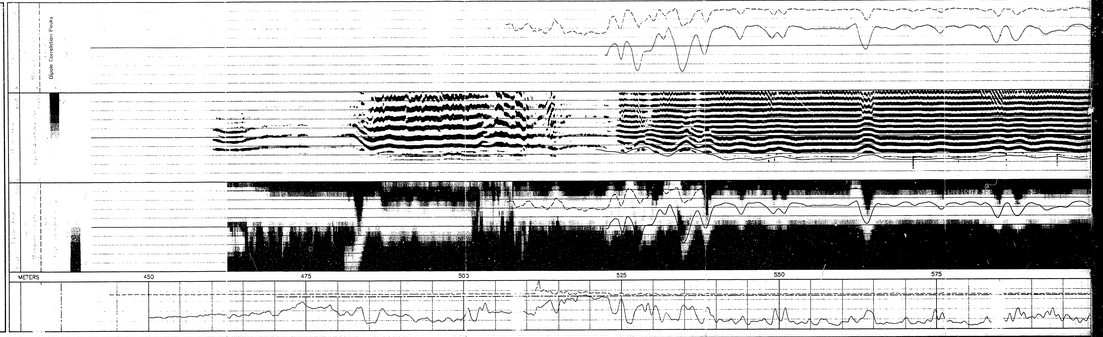
Xcor Correlation Points

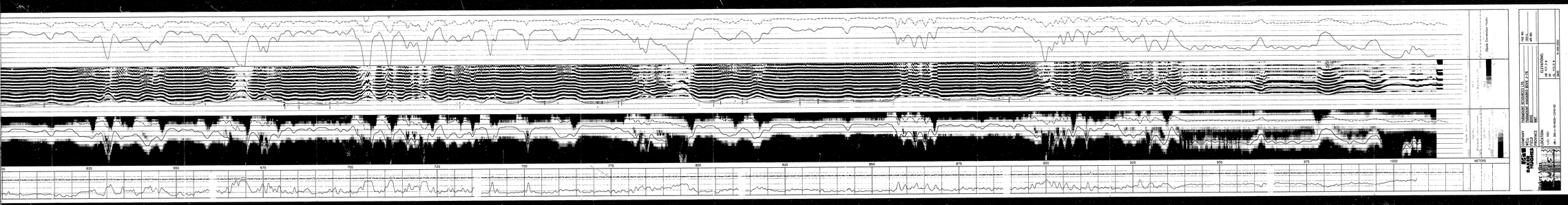
Xcor Correlation Points

450 475 500 525 550 575 600 625 650 675 700 725 750 775 800 825



Dipole Waveform - Quality Control Plot





COMPANY
WELL
PROVINCE
FIELD

FILE NO.
DRILL
DATE

DIAMOND SHAMROCK LTD.
DIAMOND SHAMROCK ROYE n°2N
SOMME
NPC

ELEVATIONS
KB 117.9 m
DF
GL 108.1
RT 28.0 m ABOVE PERM DATUM

PERM DATUM
ELEV. 0.0 m

Schlumberger

BAKER HUGHES

Baker Atlas

MULTIPOLE ARRAY ACOUSTILOG™
GAMMA RAY LOG
CALIPER LOG

N.E.B. COPY

FILE NO:	
API NO:	
COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADARKO BOVE J-76
FIELD	
PROVINCE	BOVE
LOCATION:	NAT
LAT: 300-J-76-6020-12345-00	
LONG: 123° 19' 31"	
Ver. 3.01	

PERMANENT DATUM	G.L.	ELEVATION	412.0 M	OTHER SERVICES	2324 A-Dipole Sonic
LOG MEASURED FROM	K.B.		5.5 M ABOVE P.D.		2124 HDIL-MAC-CH
DRILL MEAS. FROM	KELLY BUSHING				
	D.F.	ELEVATIONS	416.5 M		
	G.L.		412.0 M		

RUN	TRIP	DATE	TOP LOGGED INTERVAL	BOTTOM LOGGED INTERVAL	CASING SIZE	CASING WEIGHT	CASING GRADE	CASING DRILLER	CASING LOGGER	BOTTOM LOGGED INTERVAL	TYPE FLUID IN HOLE	DENSITY	VISCOSITY	PH	FLUID LOSS	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE OF RMF	SOURCE OF RMC	RM @ BHT	TIME CIRC.	TIME LOGGER ON BOTTOM	MAX. RECORDED TEMP.	EQUIP. NO.	LOCATION	RECORDED BY	WITNESSED BY
1	1	5-APR-2002	0	1027.786 M	244.5 MM	34.5 KG/M	J-55	0.0 M	1027.786 M	1027.786 M	KCL/POLYMER	1.1	0.0	0.0	0.0	PUMP	0.0 @ 0.0 C	0.0 @ 0.0 C	0.0 @ 0.0 C	MEASURED	MEASURED	0.0 @ 0.0 C	12:00	5-APR-2002	0				

1	1	TOOL	SERIES NO.	SERIAL NO.	POSITION																								
1	1	CALY	42096A	042336	Y-AXIS CALIPER																								
1	1	TTRM	3981XA	180401	FIRST																								
1	1	COMM	3514XA	153386	FIRST																								
1	1	DCP	1329XA	116930	FIRST																								
1	1	MAC(E)	1687XA	121877	FIRST																								
1	1	MAC	1659MA	154143	CENTRALIZED																								
1	1	MAC	1659PA	154188	CENTRALIZED																								
1	1	MAC	1659MA/1659FA	172854/172655	CENTRALIZED																								
1	1	CENT	4341XA	180365	CENTRALIZER																								
1	1	HDIL	1315CA/1515MA	1004097/1004098B	36 MM STANDOFF																								

REMARKS

RUN 1 TRIP 1 : TIME STOPPED CIRCULATION: JAN 9, 04:30

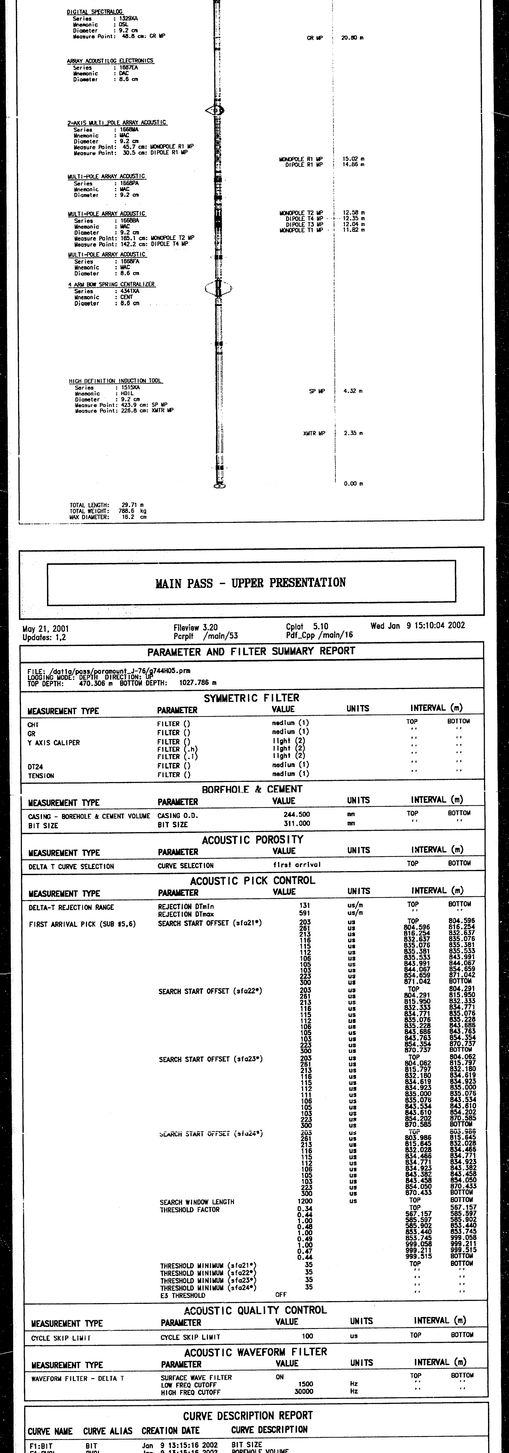
HDIL-MAC-CR-CAL RECORDED IN COMBINATION.

TWO REPEAT PASSES PRESENTED.
MAC PRESENTED ON A 100 - 500 SCALE ON UPPER PRESENTATION PER CUSTOMER REQUEST.
MAC PRESENTED ON A 100 - 300 SCALE ON MAIN PASS AS PER CUSTOMER REQUEST.

CREW: E. BARRETT, T. LOCKE RIG: SHEHTAH #4E

INSTRUMENT CONFIGURATION

Source File: /data/pass/paramount_J-76/mac-16g



MAIN PASS - UPPER PRESENTATION

May 21, 2001 Fileview 3.20 Cplot 5.10 Wed Jan 9 15:10:04 2002
Updates: 1,2 Pcrplt /main/53 Pdf_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/paramount_J-76/g7440405.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 470.306 m BOTTOM DEPTH: 1027.786 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	light (2)		"	"
	FILTER (,h)	light (2)		"	"
	FILTER (,l)	light (2)		"	"
DT24	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

BORFHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
BIT SIZE	BIT SIZE	311.000	mm	"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	"	"
	REJECTION DTmax	591	us/m	"	"
FIRST ARRIVAL PICK (SUB #5,6)	SEARCH START OFFSET (sfa21*)	203	us	TOP	804.586
		281	us	804.586	815.682
		213	us	815.797	832.180
		116	us	832.180	834.619
		115	us	834.619	836.381
		111	us	836.381	838.533
		106	us	838.533	843.891
		105	us	843.891	844.067
		103	us	844.067	854.669
		102	us	854.669	870.042
		300	us	870.042	BOTTOM
	SEARCH START OFFSET (sfa22*)	203	us	TOP	804.291
		281	us	804.291	815.682
		213	us	815.797	832.180
		116	us	832.180	834.619
		115	us	834.619	836.381
		111	us	836.381	838.533
		106	us	838.533	843.891
		105	us	843.891	844.067
		103	us	844.067	854.669
		102	us	854.669	870.042
		300	us	870.042	BOTTOM
	SEARCH START OFFSET (sfa23*)	203	us	TOP	804.062
		281	us	804.062	815.797
		213	us	815.797	832.180
		116	us	832.180	834.619
		115	us	834.619	836.323
		111	us	836.323	838.533
		106	us	838.533	843.774
		105	us	843.774	844.010
		103	us	844.010	854.202
		102	us	854.202	870.085
		300	us	870.085	BOTTOM
	SEARCH START OFFSET (sfa24*)	203	us	TOP	803.986
		281	us	803.986	815.645
		213	us	815.645	832.028
		116	us	832.028	834.491
		115	us	834.491	836.253
		111	us	836.253	838.423
		106	us	838.423	843.582
		105	us	843.582	843.958
		103	us	843.958	854.050
		102	us	854.050	870.453
		300	us	870.453	BOTTOM
	SEARCH WINDOW LENGTH	1200	us	TOP	BOTTOM
	THRESHOLD FACTOR	0.34		567.157	589.097
		0.44		589.097	953.940
		1.00		953.940	955.515
		0.60		955.515	957.745
		0.49		957.745	999.098
		1.00		999.098	999.211
		0.47		999.211	999.515
		0.44		999.515	BOTTOM
	THRESHOLD MINIMUM (sfa21*)	35		TOP	BOTTOM
	THRESHOLD MINIMUM (sfa22*)	35		"	"
	THRESHOLD MINIMUM (sfa23*)	35		"	"
	THRESHOLD MINIMUM (sfa24*)	35		"	"
	ES THRESHOLD	OFF			

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	30000	Hz	"	"

CURVE DESCRIPTION REPORT

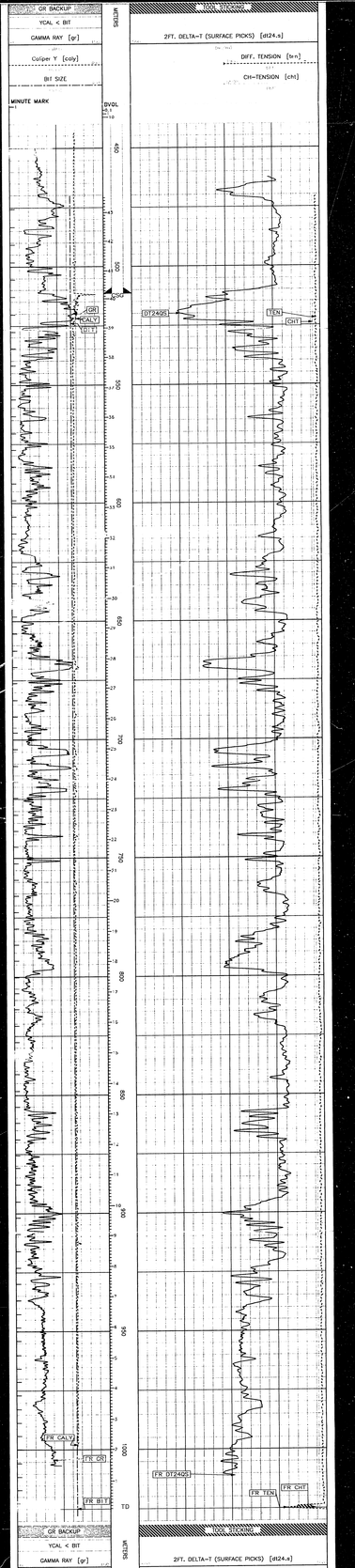
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 13:15:16 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 13:15:16 2002	BOREHOLE VOLUME
F1:CALY	CALY	Jan 9 13:15:16 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 13:15:16 2002	CABLE HEAD TENSION
F1:DT24GS	DT24.5	Jan 9 13:15:16 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jan 9 13:15:16 2002	GAMMA RAY
F1:MARK	MARK	Jan 9 13:15:16 2002	MINUTE MARK
F1:TEN	TEN	Jan 9 13:15:16 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	GR	20.75		
CALY	26.90	DT24GS	12.95	TEN	0.00		

Presentation : cput/data/pass/paramount_J-76/mac_up.pdf (1:600 Scale)
Plot Interval : 443.636 - 1027.79 Meters

Data File 1 : F1 : cput/data/pass/paramount_J-76/g7440405.xtf
Created On : Jan 9 13:15:16 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BOVE J-76
Field :
File Interval : BOVE
Ocf : 443.636 - 1027.79 Meters
: g7440



MAIN PASS - 100-300 DELTA T SCALE

May 21, 2001 — Updates: 1,2

Fileview 3.20 — Plot_Copy /main/53

Cplot 5.10 — Plot_Cpp /main/16

Wed Jun 9 15:49:40 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pad4/paramount_j-76/pl44605.prs
TOP DEPTH: 870.500 m BOTTOM DEPTH: 1027.786 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CHT	FILTER ()	medium (1)		**	**
GR	FILTER ()	medium (1)		**	**
1 ARM CALIPER	FILTER ()	light (2)		**	**
	FILTER (.x)	light (2)		**	**
	FILTER (.y)	light (2)		**	**
DT24	FILTER ()	medium (1)		**	**
TENSION	FILTER ()	medium (1)		**	**

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
BIT SIZE	BIT SIZE	311.000	mm	**	**

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA-T REJECT-ION RANGE	REJECT-ION DTdiff	150	us/ft	TOP	BOTTOM
	REJECT-ION DTmax	400	us/ft		
FIRST ARRIVAL PICK (SUB #3.X)	SEARCH START OFFSET (sfs21*)	200	us	TOP	894.596
		201	us	894.596	933.252
		202	us	933.252	933.557
		118	us	933.557	935.233
		119	us	935.233	935.538
		120	us	935.538	935.843
		121	us	935.843	936.148
		122	us	936.148	936.453
		123	us	936.453	936.758
		124	us	936.758	937.063
		125	us	937.063	937.368
	SEARCH START OFFSET (sfs22*)	200	us	TOP	894.291
		201	us	894.291	933.252
		118	us	933.252	933.557
		119	us	933.557	935.233
		120	us	935.233	935.538
		121	us	935.538	935.843
		122	us	935.843	936.148
		123	us	936.148	936.453
		124	us	936.453	936.758
		125	us	936.758	937.063
	SEARCH START OFFSET (sfs23*)	200	us	TOP	894.596
		201	us	894.596	933.252
		202	us	933.252	933.557
		118	us	933.557	935.233
		119	us	935.233	935.538
		120	us	935.538	935.843
		121	us	935.843	936.148
		122	us	936.148	936.453
		123	us	936.453	936.758
		124	us	936.758	937.063
		125	us	937.063	937.368
	SEARCH START OFFSET (sfs24*)	200	us	TOP	894.291
		201	us	894.291	933.252
		202	us	933.252	933.557
		118	us	933.557	935.233
		119	us	935.233	935.538
		120	us	935.538	935.843
		121	us	935.843	936.148
		122	us	936.148	936.453
		123	us	936.453	936.758
		124	us	936.758	937.063
		125	us	937.063	937.368
	SEARCH WINDOW LENGTH	1200	us	TOP	BOTTOM
	THRESHOLD FACTOR	0.54		894.291	987.157
		0.60		987.157	989.443
		0.66		989.443	990.205
		0.72		990.205	990.967
		0.78		990.967	993.253
		0.84		993.253	998.111
		0.90		998.111	999.033
		0.96		999.033	999.338
		1.02		999.338	999.643
	THRESHOLD WINDOW (sfs21*)	30		TOP	BOTTOM
	THRESHOLD WINDOW (sfs22*)	30		**	**
	THRESHOLD WINDOW (sfs23*)	30		**	**
	THRESHOLD WINDOW (sfs24*)	30		**	**
	E3 THRESHOLD	OFF		**	**

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	**	**
	HIGH FREQ CUTOFF	30000	Hz	**	**

CURVE DESCRIPTION REPORT

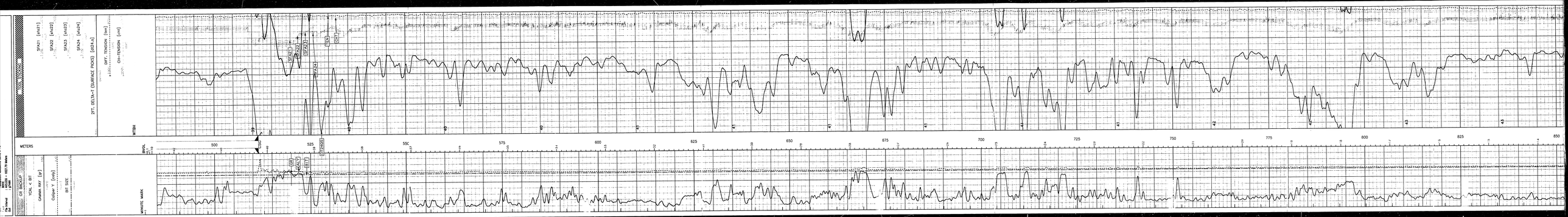
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jun 9 15:15:16 2002	BIT SIZE
F1:BVOL	BVOL	Jun 9 15:15:16 2002	BOREHOLE VOLUME
F1:CALY	CALY	Jun 9 15:15:16 2002	CALIPER ALONG Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jun 9 15:15:16 2002	CABLE TENSION - HEAD TENSION
F1:DT24QS	DT24.S	Jun 9 15:15:16 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jun 9 15:15:16 2002	GAMMA RAY
F1:MRK	MRK	Jun 9 15:15:16 2002	MINUTE MARK
F1:SFA21	SFA21	Jun 9 15:15:16 2002	SURFACE PICK FIRST ARRIVAL TIME, T281
F1:SFA22	SFA22	Jun 9 15:15:16 2002	SURFACE PICK FIRST ARRIVAL TIME, T282
F1:SFA23	SFA23	Jun 9 15:15:16 2002	SURFACE PICK FIRST ARRIVAL TIME, T283
F1:SFA24	SFA24	Jun 9 15:15:16 2002	SURFACE PICK FIRST ARRIVAL TIME, T284
F1:TEN	TEN	Jun 9 15:15:16 2002	TENSION AT THE BOREHOLE
F1:WTBH		Jun 9 15:15:16 2002	TEMPERATURE AT THE BOREHOLE

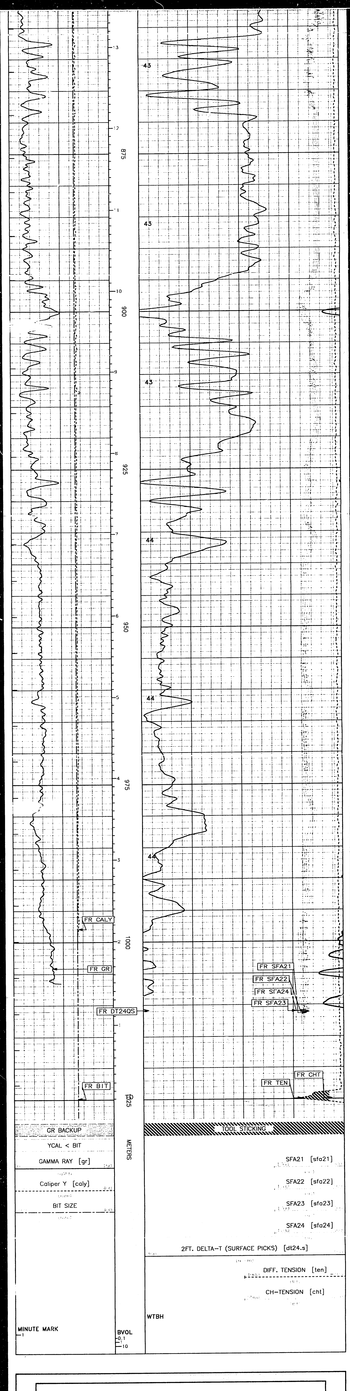
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DT24QS	12.95	SFA22	13.72	TEN	0.00
CALY	24.60	GR	20.73	SFA23	13.87		
CHT	0.00	SFA21	13.56	SFA24	13.87		

Presentation : /opt/data/pem/paramount_j-76/mac_main.pdl (1240 Scale)
Plot Interval : 400 - 1027.79 Meters

Data File 1 : IT : /opt/data/pem/paramount_j-76/pl44605.wtf
Created On : Jun 9 15:15:16 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT HAZARDOUS ESPRIT J-76
Area :


SFA21 [sfa21]
SFA22 [sfa22]
SFA23 [sfa23]
SFA24 [sfa24]
DIFT. TENSION [ten]
CH-TENSION [chi]
WTBH
METERS
500
525
550
575
600
625
650
675
700
725
750
775
800
825
850
SFA21
SFA22
SFA23
SFA24
TEN
CHT
GR BACKUP
VCAL < BIT
GAMMA RAY [gr]
Caliper Y [caly]
BIT SIZE
MINUTE MARK



REPEAT PASS NO. 1

Mon 21, 2001 — Elsajeu 3.20 — Cpist 5.10 — Wed Jan 9 15:28:14 2002
Updates: 1,2 — Perpdt /main/53 — Pdt_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/permanent_J-76/gf4405.pms
Well Name: PARAMOUNT ET AL BIRLEY
TOP DEPTH: 940.824 m BOTTOM DEPTH: 1028.871 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CCL	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER (-5)	light (2)		"	"
	FILTER (5)	light (2)		"	"
DT24	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	TOP	BOTTOM
BIT SIZE	BIT SIZE	311.000	mm	"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA-T REJECTION RANGE	REJECTION Dta+	131	us/m	TOP	BOTTOM
	REJECTION Dtmax	384	us/m	"	"
FIRST ARRIVAL PICK (SUB #5,8)	SEARCH START OFFSET (sfa21+)	384	us	"	"
	SEARCH START OFFSET (sfa22+)	384	us	"	"
	SEARCH START OFFSET (sfa23+)	384	us	"	"
	SEARCH START OFFSET (sfa24+)	384	us	"	"
	SEARCH WINDOW LENGTH	128	us	"	"
	THRESHOLD FACTOR	1.00		TOP	BOTTOM
		1.00		880.495	885.495
		0.90		885.495	887.510
		0.41		887.510	889.525
		1.00		889.525	892.525
		0.90		892.525	894.525
		0.41		894.525	896.525
		1.00		896.525	898.525
		0.90		898.525	900.525
		0.41		900.525	902.525
		1.00		902.525	904.525
		0.90		904.525	906.525
		0.41		906.525	908.525
		1.00		908.525	910.525
		0.90		910.525	912.525
		0.41		912.525	914.525
		1.00		914.525	916.525
		0.90		916.525	918.525
		0.41		918.525	920.525
		1.00		920.525	922.525
		0.90		922.525	924.525
		0.41		924.525	926.288
	THRESHOLD MINIMUM (sfa21*)	35		TOP	BOTTOM
	THRESHOLD MINIMUM (sfa22*)	35		"	"
	THRESHOLD MINIMUM (sfa23*)	35		"	"
	THRESHOLD MINIMUM (sfa24*)	35		"	"
	ES THRESHOLD	OFF			

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	30000	Hz	"	"

CURVE DESCRIPTION REPORT

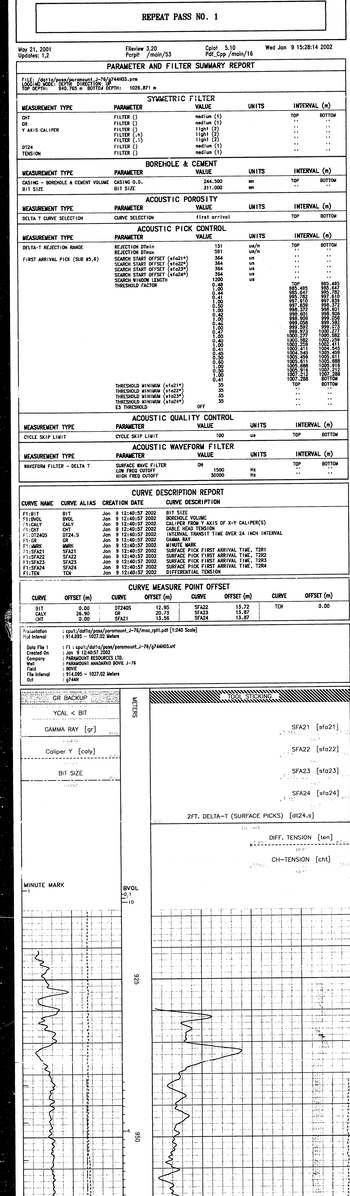
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 12:40:57 2002	BIT SIZE
F1:SVOL	SVOL	Jan 9 12:40:57 2002	SURFACE VOLUME
F1:CALY	CALY	Jan 9 12:40:57 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 12:40:57 2002	CABLE HEAD TENSION
F1:DT2405	DT24.S	Jan 9 12:40:57 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jan 9 12:40:57 2002	GAMMA RAY
F1:TEN	TEN	Jan 9 12:40:57 2002	CABLE TENSION
F1:SFA21	SFA21	Jan 9 12:40:57 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFA22	SFA22	Jan 9 12:40:57 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFA23	SFA23	Jan 9 12:40:57 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFA24	SFA24	Jan 9 12:40:57 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R4
F1:TEN	TEN	Jan 9 12:40:57 2002	DIFFERENTIAL TENSION

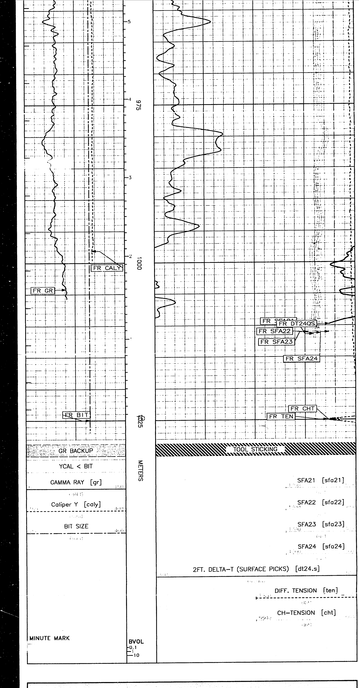
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DT2405	12.85	SFA23	15.72	TEN	0.00
SVOL	26.90	GR	20.25	SFA22	15.82		
CHT	0.00	SFA21	15.58	SFA24	15.87		

Y-calibration : /usr1/data/pass/permanent_J-76/pc_ypt.p8 [1:240 Scale]
Pdt Interval : 914.095 - 1027.82 Meters

Data File 1 : /f1: /usr1/data/pass/permanent_J-76/gf4405.set
Created On : Jan 9 12:40:57 2002
Company : PARAMOUNT PETROLEUM LTD.
Property : PARAMOUNT BIRLEY BLOCK J-76
Field : BIRLEY
File Interval : 914.095 - 1027.82 Meters
Out : gf4405





REPEAT PASS NO. 2

File/ver 3.20 Colat 3.10 Wed Jan 9 15:29:04 2002
Updates: 1,2 Purpt /main/53 Pdt_Cap /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /data/aoes/paramount_2-76/p24604.prm
LOGGING MODE: DEPTH DIRECTION
TOP DEPTH: 950.013 m BOTTOM DEPTH: 1027.481 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CHT	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	light (2)		"	"
	FILTER (.5)	light (2)		"	"
STCC	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		"	"

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	950.013	1027.481
	REJECTION DTmax	591	us/m	"	"
FIRST ARRIVAL PICK (SUB #5.6)	SEARCH START OFFSET (sfs21*)	300	us	950.013	951.873
		300	us	951.873	953.733
		300	us	953.733	955.593
		300	us	955.593	957.453
		300	us	957.453	959.313
		300	us	959.313	961.173
		300	us	961.173	963.033
		300	us	963.033	964.893
		300	us	964.893	966.753
		300	us	966.753	968.613
		300	us	968.613	970.473
		300	us	970.473	972.333
		300	us	972.333	974.193
		300	us	974.193	976.053
		300	us	976.053	977.913
		300	us	977.913	979.773
		300	us	979.773	981.633
		300	us	981.633	983.493
		300	us	983.493	985.353
		300	us	985.353	987.213
		300	us	987.213	989.073
		300	us	989.073	990.933
		300	us	990.933	992.793
		300	us	992.793	994.653
		300	us	994.653	996.513
		300	us	996.513	998.373
		300	us	998.373	1000.233
		300	us	1000.233	1002.093
		300	us	1002.093	1003.953
		300	us	1003.953	1005.813
		300	us	1005.813	1007.673
		300	us	1007.673	1009.533
		300	us	1009.533	1011.393
		300	us	1011.393	1013.253
		300	us	1013.253	1015.113
		300	us	1015.113	1016.973
		300	us	1016.973	1018.833
		300	us	1018.833	1020.693
		300	us	1020.693	1022.553
		300	us	1022.553	1024.413
		300	us	1024.413	1026.273
		300	us	1026.273	1027.481
	SEARCH START OFFSET (sfs22*)	300	us	950.013	951.873
		300	us	951.873	953.733
		300	us	953.733	955.593
		300	us	955.593	957.453
		300	us	957.453	959.313
		300	us	959.313	961.173
		300	us	961.173	963.033
		300	us	963.033	964.893
		300	us	964.893	966.753
		300	us	966.753	968.613
		300	us	968.613	970.473
		300	us	970.473	972.333
		300	us	972.333	974.193
		300	us	974.193	976.053
		300	us	976.053	977.913
		300	us	977.913	979.773
		300	us	979.773	981.633
		300	us	981.633	983.493
		300	us	983.493	985.353
		300	us	985.353	987.213
		300	us	987.213	989.073
		300	us	989.073	990.933
		300	us	990.933	992.793
		300	us	992.793	994.653
		300	us	994.653	996.513
		300	us	996.513	998.373
		300	us	998.373	1000.233
		300	us	1000.233	1002.093
		300	us	1002.093	1003.953
		300	us	1003.953	1005.813
		300	us	1005.813	1007.673
		300	us	1007.673	1009.533
		300	us	1009.533	1011.393
		300	us	1011.393	1013.253
		300	us	1013.253	1015.113
		300	us	1015.113	1016.973
		300	us	1016.973	1018.833
		300	us	1018.833	1020.693
		300	us	1020.693	1022.553
		300	us	1022.553	1024.413
		300	us	1024.413	1026.273
		300	us	1026.273	1027.481
	SEARCH START OFFSET (sfs23*)	300	us	950.013	951.873
		300	us	951.873	953.733
		300	us	953.733	955.593
		300	us	955.593	957.453
		300	us	957.453	959.313
		300	us	959.313	961.173
		300	us	961.173	963.033
		300	us	963.033	964.893
		300	us	964.893	966.753
		300	us	966.753	968.613
		300	us	968.613	970.473
		300	us	970.473	972.333
		300	us	972.333	974.193
		300	us	974.193	976.053
		300	us	976.053	977.913
		300	us	977.913	979.773
		300	us	979.773	981.633
		300	us	981.633	983.493
		300	us	983.493	985.353
		300	us	985.353	987.213
		300	us	987.213	989.073
		300	us	989.073	990.933
		300	us	990.933	992.793
		300	us	992.793	994.653
		300	us	994.653	996.513
		300	us	996.513	998.373
		300	us	998.373	1000.233
		300	us	1000.233	1002.093
		300	us	1002.093	1003.953
		300	us	1003.953	1005.813
		300	us	1005.813	1007.673
		300	us	1007.673	1009.533
		300	us	1009.533	1011.393
		300	us	1011.393	1013.253
		300	us	1013.253	1015.113
		300	us	1015.113	1016.973
		300	us	1016.973	1018.833
		300	us	1018.833	1020.693
		300	us	1020.693	1022.553
		300	us	1022.553	1024.413
		300	us	1024.413	1026.273
		300	us	1026.273	1027.481
	SEARCH START OFFSET (sfs24*)	300	us	950.013	951.873
		300	us	951.873	953.733
		300	us	953.733	955.593
		300	us	955.593	957.453
		300	us	957.453	959.313
		300	us	959.313	961.173
		300	us	961.173	963.033
		300	us	963.033	964.893
		300	us	964.893	966.753
		300	us	966.753	968.613
		300	us	968.613	970.473
		300	us	970.473	972.333
		300	us	972.333	974.193
		300	us	974.193	976.053
		300	us	976.053	977.913
		300	us	977.913	979.773
		300	us	979.773	981.633
		300	us	981.633	983.493
		300	us	983.493	985.353
		300	us	985.353	987.213
		300	us	987.213	989.073
		300	us	989.073	990.933
		300	us	990.933	992.793
		300	us	992.793	994.653
		300	us	994.653	996.513
		300	us	996.513	998.373
		300	us	998.373	1000.233
		300	us	1000.233	1002.093
		300	us	1002.093	1003.953
		300	us	1003.953	1005.813
		300	us	1005.813	1007.673
		300	us	1007.673	1009.533
		300	us	1009.533	1011.393
		300	us	1011.393	1013.253
		300	us	1013.253	1015.113
		300	us	1015.113	1016.973
		300	us	1016.973	1018.833
		300	us	1018.833	1020.693
		300	us	1020.693	1022.553
		300	us	1022.553	1024.413
		300	us	1024.413	1026.273
		300	us	1026.273	1027.481
	SEARCH WINDOW LENGTH	1000	us	TOP	BOTTOM
	THRESHOLD FACTOR	0.60		950.013	1000.233
		0.50		1000.233	1000.813
		0.40		1000.813	1001.393
		0.30		1001.393	1001.973
		0.20		1001.973	1002.553
		0.10		1002.553	1003.133
		0.08		1003.133	1003.713
		0.06		1003.713	1004.293
		0.04		1004.293	1004.873
		0.02		1004.873	1027.481
	THRESHOLD MINIMUM (sfs21*)	35		TOP	BOTTOM
	THRESHOLD MINIMUM (sfs22*)	35		"	"
	THRESHOLD MINIMUM (sfs23*)	35		"	"
	THRESHOLD MINIMUM (sfs24*)	35		"	"
	LS THRESHOLD	OFF		"	"

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	"	"

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		"	"
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	30000	Hz	"	"

CURVE DESCRIPTION REPORT

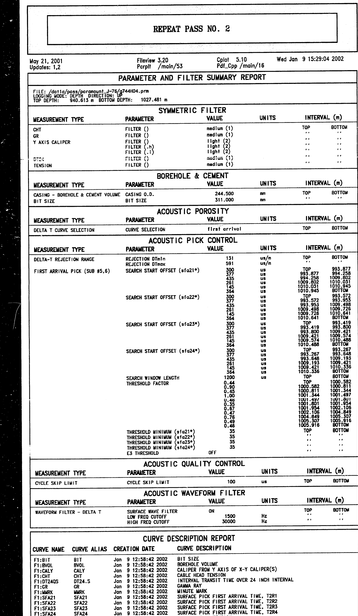
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 12:58:42 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 12:58:42 2002	BOREHOLE VOLUME
F1:CALY	CALY	Jan 9 12:58:42 2002	CALIPER FROM 1 AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 12:58:42 2002	CABLE HEAD TENSION
F1:DT24DS	DT24.S	Jan 9 12:58:42 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jan 9 12:58:42 2002	GAMMA RAY
F1:MRK	MRK	Jan 9 12:58:42 2002	MINUTE MARK
F1:SFA21	SFA21	Jan 9 12:58:42 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFA22	SFA22	Jan 9 12:58:42 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFA23	SFA23	Jan 9 12:58:42 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFA24	SFA24	Jan 9 12:58:42 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R4
F1:TEN	TEN	Jan 9 12:58:42 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DT24DS	32.93	SFA21	13.73	TEN	0.00
CALY	0.00	GR	13.97	SFA22	14.07		
CHT	0.00	MRK	13.56	SFA24	13.87		

Presentation : /pic1/data/aoes/paramount_2-76/wav_sp13.pdf [1:240 Scale]
Plot Interval : 913.943 - 1027.83 Meters

Data File 1 : F1 - /pic1/data/aoes/paramount_2-76/p24604.elf
Created On : Jan 9 12:58:42 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT MANDAMIN BOYE 2-76
Field : BOYE
File Interval : 913.943 - 1027.83 Meters
Out : g1446



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CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/paramount_J-76/g744H.tp1

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Mon Jan 07 14:10:54 2002

UNIT #: 3880TC HL6558

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	4986.4	7375.7	0.04244	-8.22418	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 09 12:11:23 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	7632.7	0.04244	-3.53307	320.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 09 14:40:05 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	7710.3	0.04244	-3.53307	323.692

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001

UNIT #: 3880TC HL6577 CALG JIG #: 4702NK da 303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	260.64	1185.84	925.2	0.162	42.26	192.26	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001

UNIT #: 3880TC HL6577 VERI JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	264.04	1190.67	0.162	42.81	193.04	150.23

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Wed Jan 09 11:48:53 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	197.60	1095.80	0.162	32.04	177.66	145.62

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329X[illegible]16930 DATE/TIME PERFORMED: Wed Jan 09 14:52:09 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	213.36	1115.49	0.162	34.59	180.85	146.26

BAKER HUGHES

Baker Atlas

COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ANADARKO BOVIE J-76
FIELD BOVIE
PROVINCE NWT

FILE NO:

API NO:

LOCATION:
LIC: 1931
UWI: 300-J-76-6020-12245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 9-JAN-2002

Baker Hughes

Baker Atlas

MULTIPOLE ARRAY ACOUSTILOG ™
SONIC BSI / DSI
CASING LOG

N.E.B. COPY

FILE NO.	
RT: KB	COMPANY: TALISMAN ENERGY LTD.
	WELL: TALISMAN MAJORIE SOUTH J-76
No. Lic	FIELD:
	PROVINCE:
	LOCATION: LSD: 16-21-102-01W6M
	API NO:
	SURVEY NO:
	ELEVATIONS: KB: 417.3 m, GL: 412.8 m

PRIMARY DATA USED FOR DEPTH CONTROL: GAMMA RAY

RUN	1	2	3
DATE	23-Feb-2005		
DEPTH DRILLER	2511.0 m		
DEPTH LOGGER	2511.0 m		
BOTTOM LOGGED INTERVAL	2510.4 m		
TOP LOGGED INTERVAL	1700.0 m		
CASING DRILLER	244.5 m @ 0.0 m	177.8 m @ 0.0 m	m @ m
CASING LOGGER	244.4 m		
BIT SIZE	219.1 mm		
TYPE OF FLUID IN HOLE	WATER		
DENSITY / VISCOSITY	1.00 g/cm3 / 0.0 s		
PH / FLUID LOSS	0.0		
SOURCE OF SAMPLE	N/A		
RM @ MEAS. TEMP.	N/A		
RMF @ MEAS. TEMP.	N/A		
RMC @ MEAS. TEMP.	N/A		
SOURCE: RMF / RMC	N/A		
RM @ BHT	N/A		
TIME SINCE CIRCULATION	1.00 hrs		
MAX. RECORDED TEMP.	0.0 degC		
EQUIPMENT / LOCATION	1-1 / 0-0		
RECORDED BY	LOGGING ENGINEER		
WITNESSED BY	COMPANY REPRESENTATIVE		

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REMARKS

RUN 1 BY: THE CASING COLLAR LOG (CCL) AND GAMMA RAY (GR) WERE RECORDED IN CASED HOLE. THE SONIC, THE FAR ARRAY WAVEFORMS, AND THE GR WERE RECORDED IN OPEN HOLE. THE SONIC DATA WAS RECORDED WITH THE DSI TOOL. THE CCL AND GR WERE RECORDED WITH THE SONIC TOOL. THE SONIC DATA WAS RECORDED WITH THE DSI TOOL. THE CCL AND GR WERE RECORDED WITH THE SONIC TOOL.

CASING DATA

CASING	244.5 mm	177.8 mm	
WEIGHT	59.8 kg/m	34.2 kg/m	
GRADE	J-55	J-55	
DRIFT	224.4 mm	158.8 mm	
TOP	0.0 m	0.0 m	
BASE	244.4 m	1700.0 m	

INSTRUMENT CONFIGURATION

TOOL STRING (TOP TO BOTTOM)	DSI		
	1	2	3
TOOL TYPE	DSI		
TOOL SERIAL NO.	1307		
TOOL LENGTH	15.2 m		
TOOL WEIGHT	1134.0 kg		
TOOL DIAMETER	114.3 mm		
TOOL MAX. TEMP.	150.0 degC		
TOOL MAX. PRESS.	138000.0 kPa		

TOOL STRING (TOP TO BOTTOM)	SONIC		
	1	2	3
TOOL TYPE	SONIC		
TOOL SERIAL NO.	1307		
TOOL LENGTH	15.2 m		
TOOL WEIGHT	1134.0 kg		
TOOL DIAMETER	114.3 mm		
TOOL MAX. TEMP.	150.0 degC		
TOOL MAX. PRESS.	138000.0 kPa		

MAIN PASS - TIPPER PRESENTATION

Scale 1:240

PRIMARY DEPTH CONTROL: GAMMA RAY

RUN	1	2	3
PASS	1		
LOGGED INTERVAL	2510.4 m		
DEPTH REFERENCE	KB		
GROUND ELEVATION	412.8 m		
KB ELEVATION	417.3 m		
DRILLED DEPTH	2511.0 m		
DEPTH LOGGER	2511.0 m		
CASING DEPTH	244.4 m		
CASING FLUID LEVEL	0.0 m		
CASING FLUID TYPE	WATER		
CASING FLUID DENSITY	1.00 g/cm3		
CASING FLUID SALINITY	0.0 ppm		
CASING FLUID PH	0.0		
CASING FLUID RESISTIVITY	0.0 ohm-m		
CASING FLUID TEMPERATURE	0.0 degC		
CASING FLUID LEVEL	0.0 m		
CASING FLUID TYPE	WATER		
CASING FLUID DENSITY	1.00 g/cm3		
CASING FLUID SALINITY	0.0 ppm		
CASING FLUID PH	0.0		
CASING FLUID RESISTIVITY	0.0 ohm-m		
CASING FLUID TEMPERATURE	0.0 degC		

CURVE NAME	GR_ECLIN	DTCO	DTSM
CURVE DESCRIPTION	GR_ECLIN	DTCO	DTSM
CURVE PROPERTY			
CURVE UNITS	GAPI	US/F	US/F
CURVE REPRESENTATION CODE	68	68	68
CURVE SAMPLE RATE	0.1 m	0.1 m	0.1 m
CURVE NUMBER OF SAMPLES	8104	8104	8104
CURVE MAXIMUM VALUE	1000.0	1000.0	1000.0
CURVE MINIMUM VALUE	0.0	0.0	0.0
CURVE MEAN VALUE	0.0	0.0	0.0
CURVE STANDARD DEVIATION	0.0	0.0	0.0

CURVE NAME	DTST	DTSS	
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	US/F	US/F	
CURVE REPRESENTATION CODE	68	68	
CURVE SAMPLE RATE	0.1 m	0.1 m	
CURVE NUMBER OF SAMPLES	8104	8104	
CURVE MAXIMUM VALUE	1000.0	1000.0	
CURVE MINIMUM VALUE	0.0	0.0	
CURVE MEAN VALUE	0.0	0.0	
CURVE STANDARD DEVIATION	0.0	0.0	

CURVE NAME	DTCO_QC	DTSM_QC	
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	US/F	US/F	
CURVE REPRESENTATION CODE	68	68	
CURVE SAMPLE RATE	0.1 m	0.1 m	
CURVE NUMBER OF SAMPLES	8104	8104	
CURVE MAXIMUM VALUE	1000.0	1000.0	
CURVE MINIMUM VALUE	0.0	0.0	
CURVE MEAN VALUE	0.0	0.0	
CURVE STANDARD DEVIATION	0.0	0.0	

CURVE NAME	DTST_QC	DTSS_QC	
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	US/F	US/F	
CURVE REPRESENTATION CODE	68	68	
CURVE SAMPLE RATE	0.1 m	0.1 m	
CURVE NUMBER OF SAMPLES	8104	8104	
CURVE MAXIMUM VALUE	1000.0	1000.0	
CURVE MINIMUM VALUE	0.0	0.0	
CURVE MEAN VALUE	0.0	0.0	
CURVE STANDARD DEVIATION	0.0	0.0	

ACOUSTIC QUALITY CONTROL

ASSIGNMENT TYPE	ACOUSTIC QUALITY CONTROL		
ASSIGNMENT	DTCO_QC	DTSM_QC	
CURVE NAME	DTCO_QC	DTSM_QC	
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	US/F	US/F	
CURVE REPRESENTATION CODE	68	68	
CURVE SAMPLE RATE	0.1 m	0.1 m	
CURVE NUMBER OF SAMPLES	8104	8104	
CURVE MAXIMUM VALUE	1000.0	1000.0	
CURVE MINIMUM VALUE	0.0	0.0	
CURVE MEAN VALUE	0.0	0.0	
CURVE STANDARD DEVIATION	0.0	0.0	

ACOUSTIC PAD CONTROL

ASSIGNMENT TYPE	ACOUSTIC PAD CONTROL		
ASSIGNMENT	DTCO	DTSM	
CURVE NAME	DTCO	DTSM	
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	US/F	US/F	
CURVE REPRESENTATION CODE	68	68	
CURVE SAMPLE RATE	0.1 m	0.1 m	
CURVE NUMBER OF SAMPLES	8104	8104	
CURVE MAXIMUM VALUE	1000.0	1000.0	
CURVE MINIMUM VALUE	0.0	0.0	
CURVE MEAN VALUE	0.0	0.0	
CURVE STANDARD DEVIATION	0.0	0.0	

GAMMA RAY (RAW)

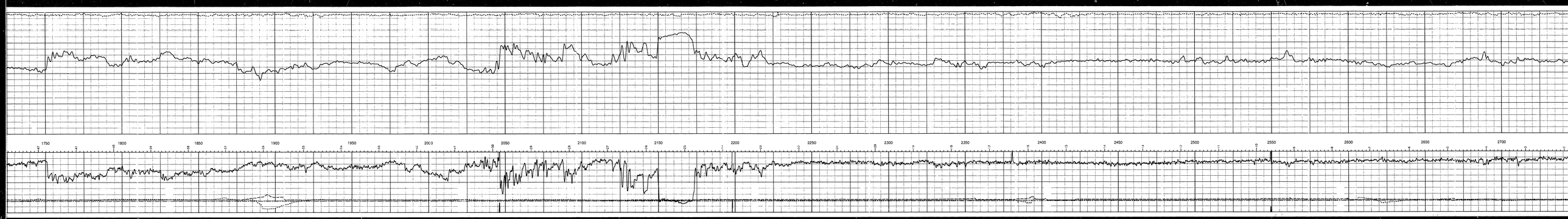
ASSIGNMENT TYPE	GAMMA RAY (RAW)		
ASSIGNMENT	GR_ECLIN		
CURVE NAME	GR_ECLIN		
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	GAPI		
CURVE REPRESENTATION CODE	68		
CURVE SAMPLE RATE	0.1 m		
CURVE NUMBER OF SAMPLES	8104		
CURVE MAXIMUM VALUE	1000.0		
CURVE MINIMUM VALUE	0.0		
CURVE MEAN VALUE	0.0		
CURVE STANDARD DEVIATION	0.0		

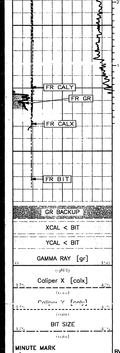
GAMMA RAY (SMOOTHED)

ASSIGNMENT TYPE	GAMMA RAY (SMOOTHED)		
ASSIGNMENT	GR_ECLIN		
CURVE NAME	GR_ECLIN		
CURVE DESCRIPTION			
CURVE PROPERTY			
CURVE UNITS	GAPI		
CURVE REPRESENTATION CODE	68		
CURVE SAMPLE RATE	0.1 m		
CURVE NUMBER OF SAMPLES	8104		
CURVE MAXIMUM VALUE	1000.0		
CURVE MINIMUM VALUE	0.0		
CURVE MEAN VALUE	0.0		
CURVE STANDARD DEVIATION	0.0		

GAMMA RAY (TRACK)

ASSIGNMENT TYPE	GAMMA RAY (TRACK


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700



MAIN PASS - 100-300 DELTA T SCALE

May 21, 2001 — Updates: 1,2

FileView 3.20 — Pdt.Cpp /main/53

Cpint 3.10 — Pdf.Cpp /main/16

Mon Jan 28 13:52:35 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/logging/prospect_jc76/p7805.prm
TOP DEPTH: 2470.000 m — BOTTOM DEPTH: 2470.099 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER (1)	light (2)		"	"
CHT	FILTER (1)	medium (1)		"	"
GR	FILTER (1)	medium (1)		"	"
Y AXIS CALIPER	FILTER (1)	light (2)		"	"
DT24	FILTER (1)	light (2)		"	"
TENSION	FILTER (1)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	TOP	BOTTOM
	REJECTION DTmax	591	us/m	"	"
FIRST ARRIVAL PICK (SUB #5.6)	SEARCH START OFFSET (sfa21*)	160	us	2469.953	2470.099
		161	us	2469.963	2470.099
		162	us	2469.973	2470.099
		163	us	2469.983	2470.099
		164	us	2469.993	2470.099
		165	us	2470.003	2470.099
		166	us	2470.013	2470.099
		167	us	2470.023	2470.099
		168	us	2470.033	2470.099
		169	us	2470.043	2470.099
		170	us	2470.053	2470.099
		171	us	2470.063	2470.099
		172	us	2470.073	2470.099
		173	us	2470.083	2470.099
	SEARCH START OFFSET (sfa22*)	160	us	2469.948	2470.099
		161	us	2469.958	2470.099
		162	us	2469.968	2470.099
		163	us	2469.978	2470.099
		164	us	2469.988	2470.099
		165	us	2469.998	2470.099
		166	us	2470.008	2470.099
		167	us	2470.018	2470.099
		168	us	2470.028	2470.099
		169	us	2470.038	2470.099
		170	us	2470.048	2470.099
		171	us	2470.058	2470.099
		172	us	2470.068	2470.099
		173	us	2470.078	2470.099
	SEARCH START OFFSET (sfa23*)	160	us	2469.943	2470.099
		161	us	2469.953	2470.099
		162	us	2469.963	2470.099
		163	us	2469.973	2470.099
		164	us	2469.983	2470.099
		165	us	2469.993	2470.099
		166	us	2470.003	2470.099
		167	us	2470.013	2470.099
		168	us	2470.023	2470.099
		169	us	2470.033	2470.099
		170	us	2470.043	2470.099
		171	us	2470.053	2470.099
		172	us	2470.063	2470.099
		173	us	2470.073	2470.099
	SEARCH START OFFSET (sfa24*)	160	us	2469.943	2470.099
		161	us	2469.953	2470.099
		162	us	2469.963	2470.099
		163	us	2469.973	2470.099
		164	us	2469.983	2470.099
		165	us	2469.993	2470.099
		166	us	2470.003	2470.099
		167	us	2470.013	2470.099
		168	us	2470.023	2470.099
		169	us	2470.033	2470.099
		170	us	2470.043	2470.099
		171	us	2470.053	2470.099
		172	us	2470.063	2470.099
		173	us	2470.073	2470.099
	SEARCH WINDOW LENGTH	1000	us	1003.445	1003.445
		1100	us	1103.790	1103.790
		1200	us	1204.135	1204.135
		1300	us	2137.908	2137.908
	THRESHOLD FACTOR	0.70		TOP	BOTTOM
		0.75		992.857	992.857
		0.80		992.857	992.857
		0.85		992.857	992.857
		0.90		992.857	992.857
		0.95		992.857	992.857
		0.50		998.544	998.544
	THRESHOLD MINIMUM (sfa21*)	35		TOP	BOTTOM
	THRESHOLD MINIMUM (sfa22*)	35		"	"
	THRESHOLD MINIMUM (sfa23*)	35		"	"
	THRESHOLD MINIMUM (sfa24*)	35		"	"
	C3 THRESHOLD	OFF		"	"

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	30000	Hz	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:19 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:04:20 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 28 11:04:23 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 28 11:04:24 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 28 11:04:25 2002	CABLE HEAD TENSION
F1:DT2405	DT2405	Jan 28 11:04:26 2002	DELTA-T RESULT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jan 28 11:05:06 2002	GAMMA RAY
F1:MMRK	MMRK	Jan 28 11:05:09 2002	MINUTE MARK
F1:SFA21	SFA21	Jan 28 11:08:29 2002	SURFACE PICK FIRST ARRIVAL TIME, 1291
F1:SFA22	SFA22	Jan 28 11:08:33 2002	SURFACE PICK FIRST ARRIVAL TIME, 1292
F1:SFA23	SFA23	Jan 28 11:08:36 2002	SURFACE PICK FIRST ARRIVAL TIME, 1293
F1:SFA24	SFA24	Jan 28 11:08:39 2002	SURFACE PICK FIRST ARRIVAL TIME, 1294
F1:TEN	TEN	Jan 28 11:10:35 2002	DIFFERENTIAL TENSION
F1:WTBH	WTBH	Jan 28 11:09:13 2002	TEMPERATURE OF THE BOREHOLE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	SFA21	13.56	SFA24	13.87
CALX	26.37	DT2405	13.56	SFA22	13.71	TEN	0.00
CALY	26.37	GR	10.10	SFA23	13.87		

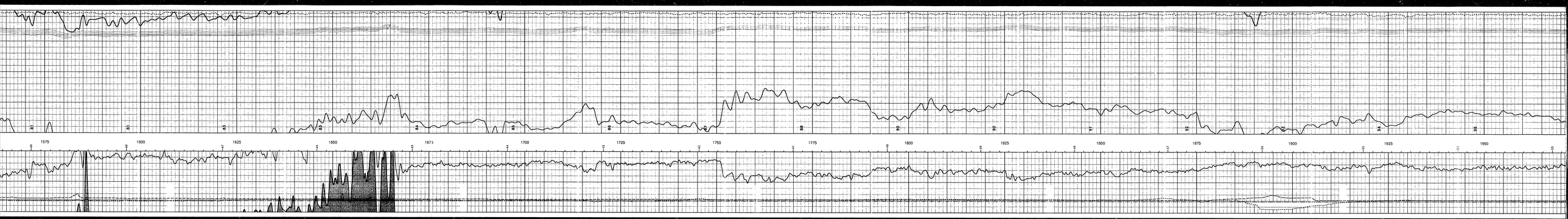
Presentation Plot Interval: /opt/data/pem/paramount_jc76/new_main.pdf [1245 Scale] : 995 - 2815.58 Meters

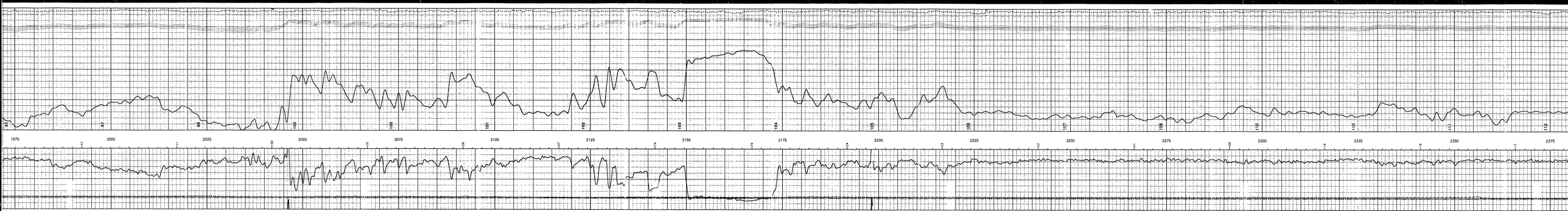
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Created By: Jan 18 11:49:17 2002

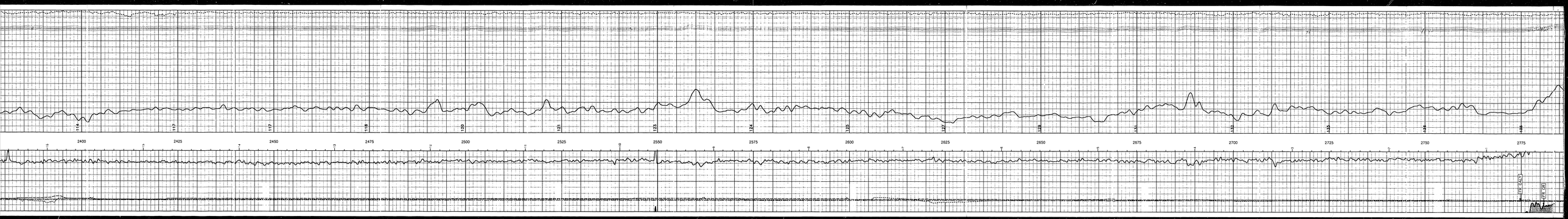
Company: PARAMOUNT RESOURCES LTD.
Well: PARAMOUNT MACKENZIE BEND J-76
Field: Unit:
File Interval: 819.274 - 2815.58 Meters
Dd: g7786

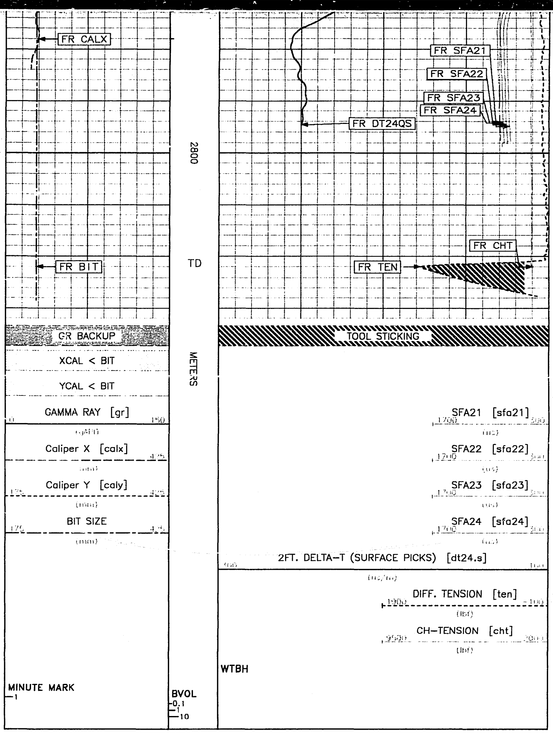



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2775



REPEAT PASS

May 21, 2001 Fileview 3.20 Cplot 5.10 Mon Jan 28 14:10:56 2002
Updates: 1,2 Perplt /main/53 Pdf_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/paramount_J-76/g779b03.prm
LOGGING MODE: DEPTH DIRECTION: @
TOP DEPTH: 2725.750 m BOTTOM DEPTH: 2815.438 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
X AXIS CALIPER	FILTER ()	light (2)		TOP	BOTTOM
CHT	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	light (2)		"	"
DT24	FILTER ()	light (2)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		TOP	BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	TOP	BOTTOM
	REJECTION DTmax	591	us/m	"	"
FIRST ARRIVAL PICK (SUB #5,6)	SEARCH START OFFSET (sfa21*)	120	us	"	"
	SEARCH START OFFSET (sfa22*)	120	us	"	"
	SEARCH START OFFSET (sfa23*)	120	us	"	"
	SEARCH START OFFSET (sfa24*)	120	us	"	"
	SEARCH WINDOW LENGTH	1200	us	"	"
	THRESHOLD FACTOR	0.30		"	"
	THRESHOLD MINIMUM (sfa21*)	35		"	"
	THRESHOLD MINIMUM (sfa22*)	35		"	"
	THRESHOLD MINIMUM (sfa23*)	35		"	"
	THRESHOLD MINIMUM (sfa24*)	35		"	"
	E3 THRESHOLD	OFF		"	"

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	20000	Hz	"	"

CURVE DESCRIPTION REPORT

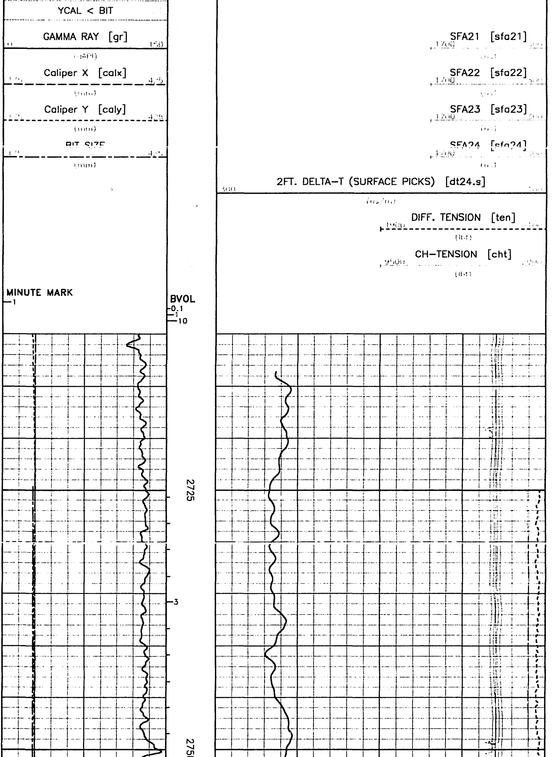
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:17:14 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:17:15 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 28 11:17:15 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 28 11:17:15 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 28 11:17:17 2002	CABLE HEAD TENSION
F1:DT24QS	DT24.S	Jan 28 11:17:24 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Jan 28 11:17:41 2002	GAMMA RAY
F1:MARK	MARK	Jan 28 11:18:25 2002	MINUTE MARK
F1:SFA21	SFA21	Jan 28 11:20:02 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFA22	SFA22	Jan 28 11:20:08 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFA23	SFA23	Jan 28 11:20:09 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFA24	SFA24	Jan 28 11:20:10 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R4
F1:TEN	TEN	Jan 28 11:21:07 2002	DIFFERENTIAL TENSION

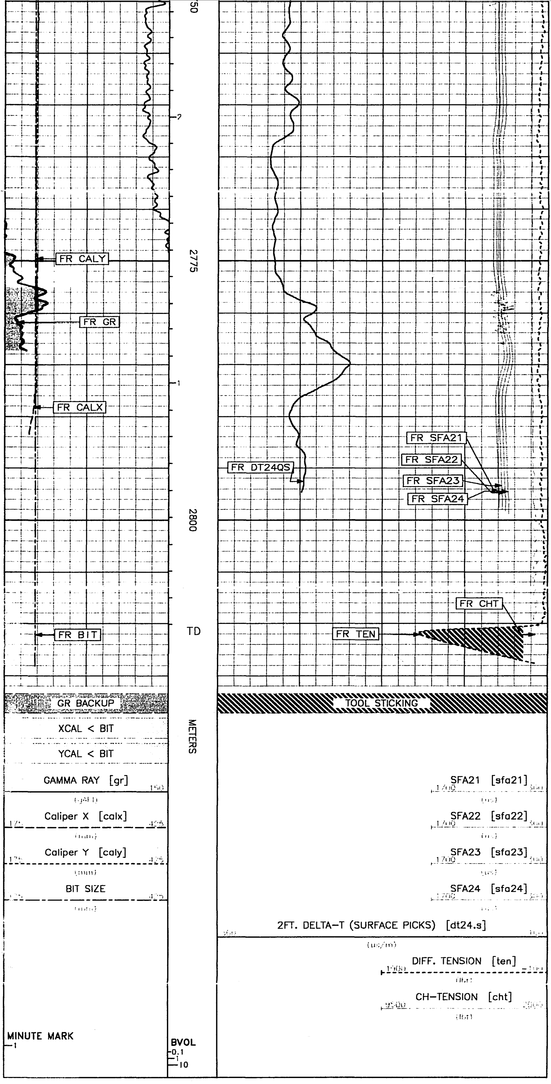
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	SFA21	13.56	SFA24	13.87
CALX	21.95	DT24QS	12.95	SFA22	13.72	TEN	0.00
CALY	36.27	GR	30.10	SFA23	13.87		

Presentation : cput:/data/pass/paramount_J-76/mac_rpt.pdf [1:240 Scale]
Plot Interval : 2710 - 2815.59 Meters

Data File 1 : F1 : cput:/data/pass/paramount_J-76/g779b03.stf
Created On : Jan 28 11:17:12 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT AMADAEUS BOVIE J-76
Field : BOVIE
File Interval : 916.076 - 2815.59 Meters
Oct : g779b





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/paramount_J-76/g779b.tp1

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Sat Jan 19 14:12:26 2002

UNIT #: 3880TC HL6558

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	4951.0	7417.3	0.04112	-0.16150	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 23 08:21:24 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	5349.3	0.04112	6.56157	226.500

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 DATE/TIME PERFORMED: Wed Jan 23 15:19:59 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	5368.8	0.04112	6.56157	227.300 (215.800 239.200)

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001

UNIT #: 3880TC HL6577 CALB JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	280.64	1185.84	925.2 (870.0 980.3)	0.162	42.26	192.26	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001

UNIT #: 3880TC HL6577 VERI JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	264.04	1190.67	0.162	42.81	193.04	150.23 (140.00 160.00)

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Tue Jan 22 22:11:22 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	309.80	1244.49	0.162	50.23	201.77	151.54 (140.23 160.23)

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Wed Jan 23 17:10:26 2002

UNIT #: 3880TC HL6558 VERI JIG #: 470[illegible]NK da-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	195.68	1111.87	0.162	31.72	180.26	148.54 (141.34 161.34)

BAKER HUGHES

Baker Atlas

COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ANADARKO BOVIE J-76
FIELD BOVIE
PROVINCE NWT

FILE NO:

API NO:

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 22-JAN-2002

BAKER HUGHES

Baker Atlas

MAC — Multipole Array Acoustilog

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
15995	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT

N.E.B. COPY

Ver. 3.81

LOCATION:
LIC: 1931

LSD: 300-J-76-6020-12245-00

OTHER SERVICES
ZDL-CN-GR-CAL
HDIL-GR-CAL
WL-GR-CAL
STAR
CVL

PERMANENT DATUM	G.L.	ELEVATION	412.0 M
LOG MEASURED FROM	K.B.	5.3 M	ABOVE P.D.
DRILL MEAS. FROM	KELLY BUSHING		

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE		05-Feb-2002	
RUN	TRIP	3	1
SERVICE ORDER		201455	
DEPTH DRILLER		3350.0 M	
DEPTH LOGGER		3351.0 M	
BOTTOM LOGGED INTERVAL		3351.1 M	
TOP LOGGED INTERVAL		2808.8 M	
CASING DRILLER		177.8 MM @ 2808.0 M	●
CASING LOGGER		2808.8 M	
BIT SIZE		152.0 MM	
TYPE OF FLUID IN HOLE		GELCHEM	
DENSITY	VISCOSITY	1.170 G/C3 80.0 S	
PH	FLUID LOSS	10.0 6.5 C3	
SOURCE OF SAMPLE		FLOWLINE	
RM AT MEAS. TEMP.		2.58 OHMM @ 21.28 DEGC	●
RMF AT MEAS. TEMP.		2.47 OHMM @ 20.52 DEGC	●
RMC AT MEAS. TEMP.		2.63 OHMM @ 20.46 DEGC	●
SOURCE OF RMF	RMC	MEASURED MEASURED	
RM AT BHT		0.6 OHMM @ 155.6 DEGC	●
TIME SINCE CIRCULATION		23.0 HOURS	
MAX. RECORDED TEMP.		155.6 DEGC	
EQUIP. NO.	LOCATION	1HL 6558 GR, PRAIRIE	
RECORDED BY		A.BU K.VICKERD	
WITNESSED BY		D. Te	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT BUT BAKER ATLAS AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES. OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF

REMARKS

Run 3 TRIP 1: TIME STOPPED CIRCULATION: 05-FEB-2002 / 24.00 HOURS

WL-HDIL-MAC-ZDL-CN-GR-NV RECORDED IN COMBINATION.

100 SACKS OF BARRITE ADDED TO HOLE.

CREW: E. BARRETT, J. SAWAGA

RIG: SENTAH #4E

LOG ANALYST: TANYA ROGERS

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
		CTM	8913TA	8913	MAST CLAMP
		CTM	8913TA	8913	FEET
		CTM	8913TA	8913	FEET
		ASX	13762TA	13762	FEET
		ASX	13762TA	13762	FEET
		ASX	13762TA	13762	FEET
		CAL	13762TA	13762	ENDPLANE
		CAL	13762TA	13762	SKIDBLADE
		DEN	2222DA/DB/DC	INTEGRATED	KNUCKLE JOINT
		DEN	2222DA/DB/DC	13762	KNUCKLE JOINT
		GAM	4341TA	4341	CENTRALIZER
		GAM	4341TA	4341	CENTRALIZER
		GAM	4341TA	4341	CENTRALIZER
		MAC	1575DA/DB/DC	13762	ACOUSTIC GENERATOR
		MAC	1575DA/DB/DC	13762	CENTRALIZER
		MAC	1575DA/DB/DC	13762	CENTRALIZER
		NEU	3127DA/DB/DC	10604/2688	KNUCKLE JOINT
		NEU	3127DA/DB/DC	3127	SKID
		SLM	1132DA/DB/DC	0000/0621	PAD MACK

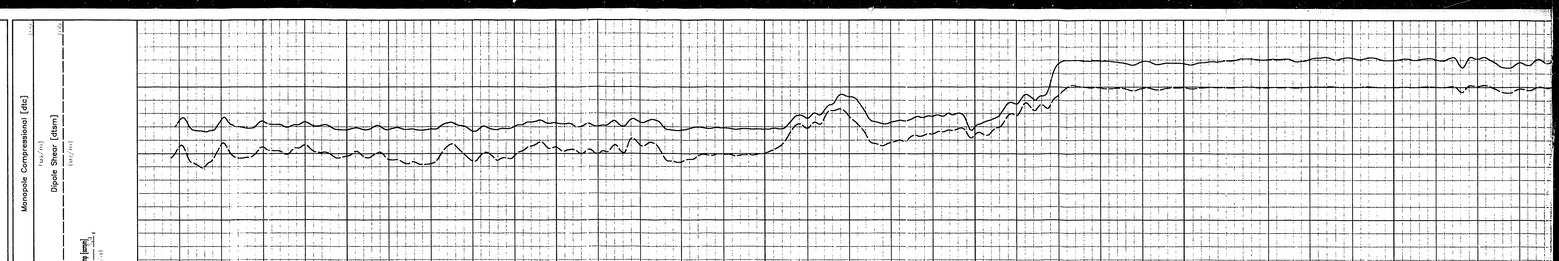
Computed Slowness Curves

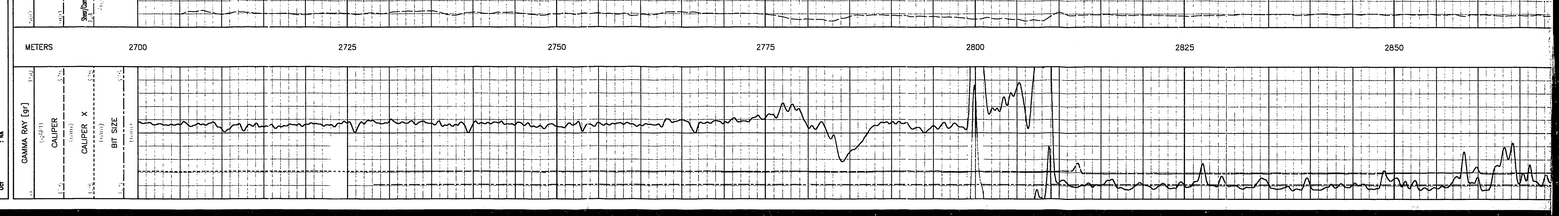
CURVE MEASURE POINT OFFSET

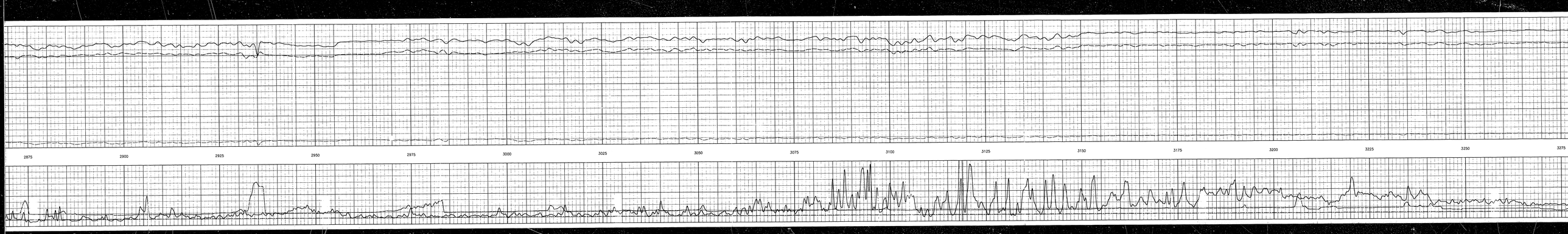
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT CAL	0.00 0.00	CALX DTSM	31.17 0.00	GR SDSM	34.27 41.00		

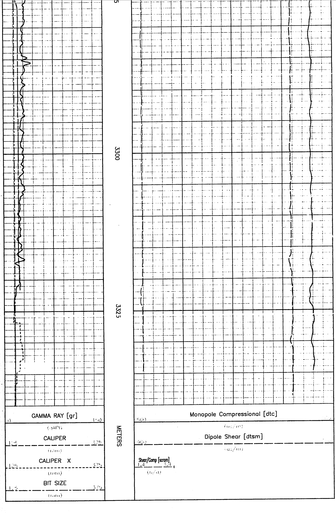
Depth Unit: /data/geodata/parsik
Plot Template: : /data/geodata/parsik/parsik.tpl.dat [1:240 Scale]
Plot Interval: : 2700.00 - 3350.00 Meters

Data File 1 : f1 : ccapps1:/data/geodata/parsik/g3tb892_raw.dlis
Created On : Feb 6 2:52:48 2002
Logging Co. :
Field :
File Interval : 2694.38 - 3350.62 Meters
Units : Metric






2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150
3175
3200
3225
3250
3275



Monopole Waveform - Quality Control Plot

eXpress Release 3.0 May 02, 2001
Updates: 1

Flowline 3.10
Porpb /main/54

Cpist 8.0
Pdf_Cpp /main/16

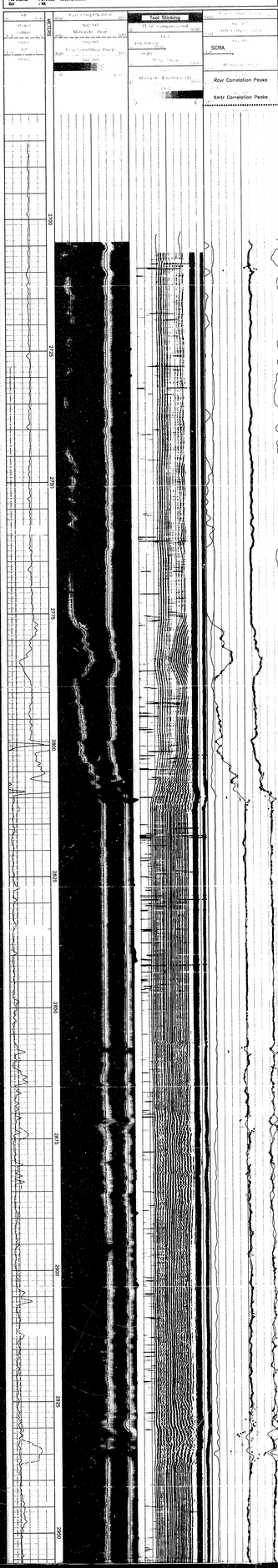
Fri Feb 8 14:42:03 2002

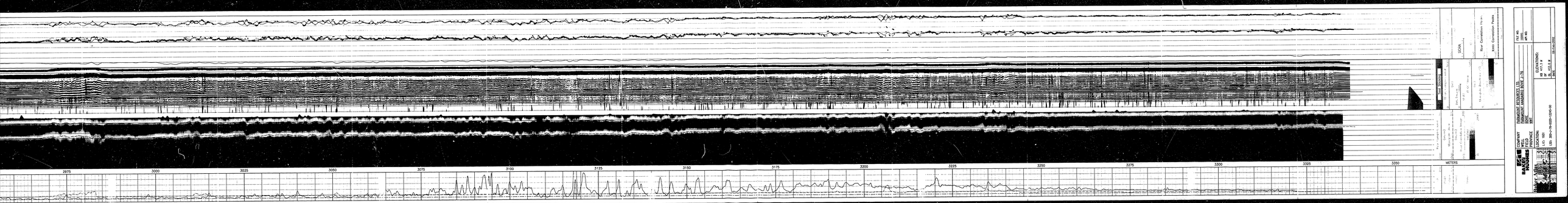
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	COMPDSX	20.88	STCM	0.00	TCN	0.00
CAL	1.07	DTCR	20.88	GR	36.27	TTC	0.00
COMPDSR	20.88	DTCX	20.88	SCRAM	0.00	TTS	0.00

Product : /data/geodata/panhk
User : nelgison
Presentation : cotopost1:/data/geodata/panhk/rcvr_test.ps8 [1:240 Scale]
Plot Interval : 2680.72 - 3380.42 Meters

Data File 1 : F1 : cotopost1:/data/geodata/panhk/g278x802_new.stf
Created On : Feb 8 23:24:48 2002
Company :
Well :
Run :
File Interval : 2184.38 - 3380.42 Meters
Bit : NA





COMPANY
FIELD
LOCATION
WELL
LOCATION:
Lat.: N/A
Long.: N/A
Elev.: KB: 0 ft, GL: 0 ft, DF: 0 ft
ELEVATIONS:
KB
DF
GL
API #:
Other Services:
Run No.:
Date:

BAKER HUGHES

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MULTIPOLE ARRAY ACOUSTILOG SM
GAMMA RAY LOG
CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVE J-76
API NO:	FIELD	BOVE
	PROVINCE	NWT

Ver. 3.81

LOCATION:
LIC: 1831

LSD: 300-J-76-6030-12245-00

OTHER SERVICES
ZDL-CN-GR-CAL
HDI-CN-GR-CAL
IM-GR-CAL
DSI
CNL

PERMANENT DATUM	G.L.	ELEVATION	412.0 M
LOG MEASURED FROM	K.B.	5.3 M	ABOVE P.D.
DRILL MEASURED FROM	KELLY BUSHING		

ELEVATIONS:
KB 417.2 M
DF
GL 412.0 M

DATE		06-Feb-2002		
RUN	TRIP	3	1	
SERVICE ORDER		201455		
DEPTH DRILLER		3390.0 M		
DEPTH LOGGER		3353.5 M		
BOTTOM LOGGED INTERVAL		3351.1 M		
TOP LOGGED INTERVAL		2806.5 M		
CASING DRILLER		177.8 MM @	2806.0 M	@
CASING LOGGER		2806.8 M		
BIT SIZE		152.0 MM		
TYPE OF FLUID IN HOLE		CELCIUM		
DENSITY VISCOSITY		1.170 G/C3	80.0 S	
PH FLUID LOSS		10.0	5.5 CC	
SOURCE OF SAMPLE		FLOWLINE		
RM AT MEAS. TEMP.		2.50 OHM @	21.28 DEGC	@
RMF AT MEAS. TEMP.		2.47 OHM @	20.52 DEGC	@
RMC AT MEAS. TEMP.		2.63 OHM @	20.46 DEGC	@
SOURCE OF RMF	RMC	MEASURED	MEASURED	@
RM AT BHT		0.6 OHM @	155.6 DEGC	@
TIME SINCE CIRC.		20.0 HOURS		
MAX. RECORDED TEMP.		155.6 DEGC		
EQUIP. NO.	LOCATION	16, 6506	GR, PRAIRIE	
RECORDED BY		A.BALOG, W.VICKERD		
WITNESSED BY		D. TAYLOR		

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REMARKS

RUN 3 TRIP 1: TIME STAMPED SYNDICATION: 05-FEB-2002 / 24:00 HOURS

W.=WELL-MAC-DSI-CN-GR-IM RECORDED IN COMBINATION.

BHC AND DSI ARE CALCULATED FROM AN AVERAGE OF 8-ARTICLE(S)
AND AND DSI, ARE CALCULATED FROM AN AVERAGE OF 8-ARTICLE(S)
DSI, AND DSI, ARE CALCULATED FROM 8-ARM STAR CALIPERS - RUN 2.
DSI = TOTAL ENERGY VOLUME
DSI = TOTAL ENERGY VOLUME
DSI = TOTAL ENERGY VOLUME
MEDIUM (TOOL) = 1.0 CUBIC METER(S).
MEDIUM (TOOL) = 1.0 CUBIC METER(S).
DSI, PRESENTED ON 1/20 HAND SIDE.
DSI, PRESENTED ON 1/20 HAND SIDE.

MAC PRESENTED ON 4 100 - 500 SCALE PER CUSTOMER REQUEST(UPPER HALF).
MAC PRESENTED ON 4 100 - 500 SCALE PER CUSTOMER REQUEST(UPPER HALF).
IT IS INTERVENED TRAVEL TIME.
SHIFTS TOOK 1 HOURS.
SHIFTS TOOK 1 HOURS.
1/2 INCH SHEAVE USED.
1/2 INCH SHEAVE USED.
1/2 INCH OF BARRITE USED TO KILL.
1/2 INCH OF BARRITE USED TO KILL.

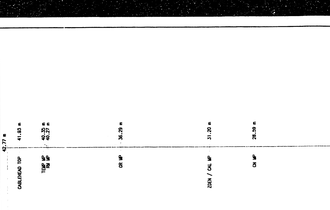
CREW: E. BARRETT, J. SAMAHA
CREW: E. BARRETT, J. SAMAHA

RIG: ENSIGN #4E
RIG: ENSIGN #4E

RUN	TRIP	TOOL	SERIAL NO.	POSITION
		CNL	1318	TOP
		ZDL	1318	MIDDLE
		TTM-AA	1318	BOTTOM
		DSI	1318	MIDDLE
		HDI	1318	MIDDLE
		IM	1318	MIDDLE
		GR	1318	MIDDLE
		CAL	1318	MIDDLE
		CNL	1318	MIDDLE
		ZDL	1318	MIDDLE
		TTM-AA	1318	MIDDLE
		DSI	1318	MIDDLE
		HDI	1318	MIDDLE
		IM	1318	MIDDLE
		GR	1318	MIDDLE
		CAL	1318	MIDDLE

INSTRUMENT CONFIGURATION

Go to Top / Retour au début du rapport



MAIN PASS - UPPER PRESENTATION

May 21, 2021
Version: 1.2

Plotted: Thu Feb 7 14:15:08 2002
Depth: 5.10
Scale: 1:200 / 1:500

PARAMETER AND FILTER SUMMARY REPORT

File: acoustic_sonic_3351m.pmm
Well: Bove J-76 Paramount Anadarko Bove J-76

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACOUSTIC VELOCITY	FILTER (1)	median (1)	m/s	2806.5 3351.1
DELTA T	FILTER (2)	median (2)	us/m	2806.5 3351.1
TORQUE	FILTER (3)	median (3)	kN-m	2806.5 3351.1

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
BIT SIZE	BOREHOLE DIAMETER	152.0000	MM	TOP BOTTOM

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
DELTA T	ACOUSTIC POROSITY SELECTION	Wyllie Rose (Field Standard)	%	TOP BOTTOM

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
DELTA T REJECTION RANGE	REJECTION (Min)	131	us/m	2806.5 3351.1
	REJECTION (Max)	351	us/m	
FIRST ARRIVAL PICK (SUB 65.6)	SEARCH START OFFSET (+)(ADV)	25.00	us	
	SEARCH START OFFSET (-)(RET)	25.00	us	
	SEARCH WINDOW (+)(ADV)	50.00	us	
	SEARCH WINDOW (-)(RET)	50.00	us	
	THRESHOLD MINIMUM (+)(ADV)	0.300		
	THRESHOLD MINIMUM (-)(RET)	0.300		
	THRESHOLD MAXIMUM (+)(ADV)	0.35		
	THRESHOLD MAXIMUM (-)(RET)	0.35		
	FIRST ARRIVAL PICK (SUB 65.6)	OFF		

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP BOTTOM

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		2806.5 3351.1
	LOW FREQ CUTOFF	2000	Hz	TOP BOTTOM
	HIGH FREQ CUTOFF	20000	Hz	

ACOUSTIC WAVEFORM FILTER

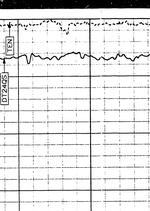
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
P1-BIT	BIT	Feb 7 14:13:21 2002	BIT SIZE
P1-DTCO	DTA1.5	Feb 7 14:13:37 2002	ACOUSTIC TRAVEL-TIME (1.5 FT SPACING)
P1-TENS	TEN	Feb 7 14:13:37 2002	TENSION, TRACTOR TIME (NOT 24 HOUR) INTERVAL
P1-TEN	TEN	Feb 7 14:13:37 2002	TENSION
		Feb 7 14:13:48 2002	DIFFERENTIAL TORQUE

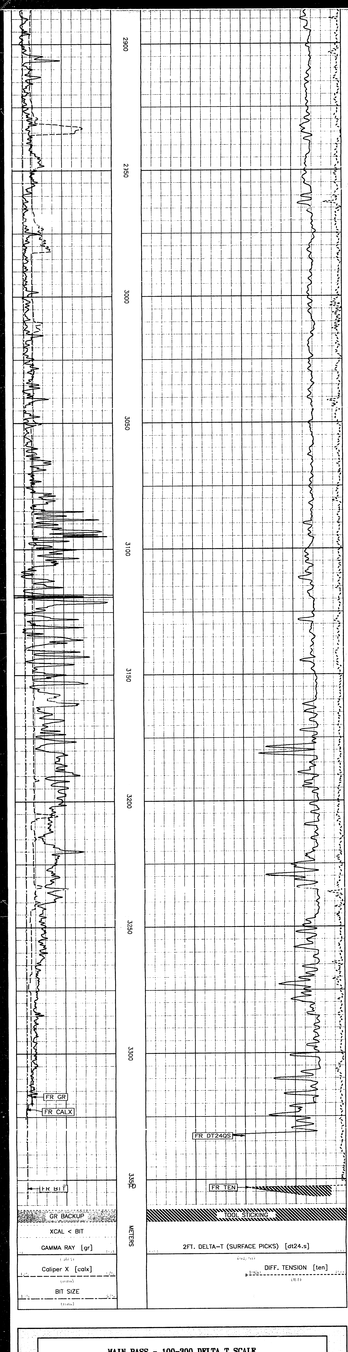
CURVE DESCRIPTION REPORT

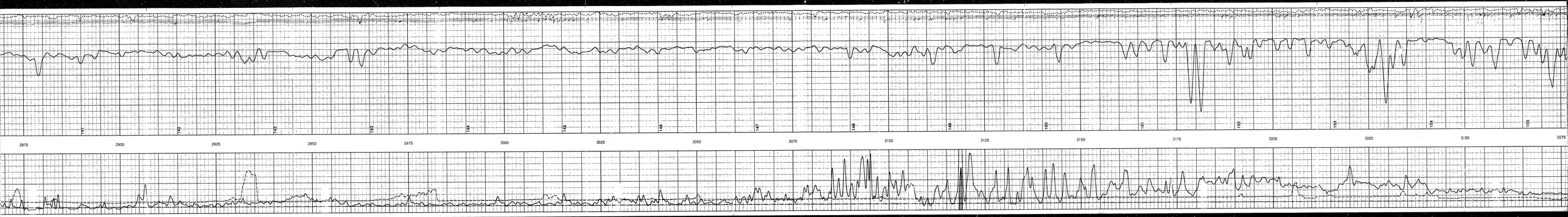
CURVE MEASURE POINT OFFSET

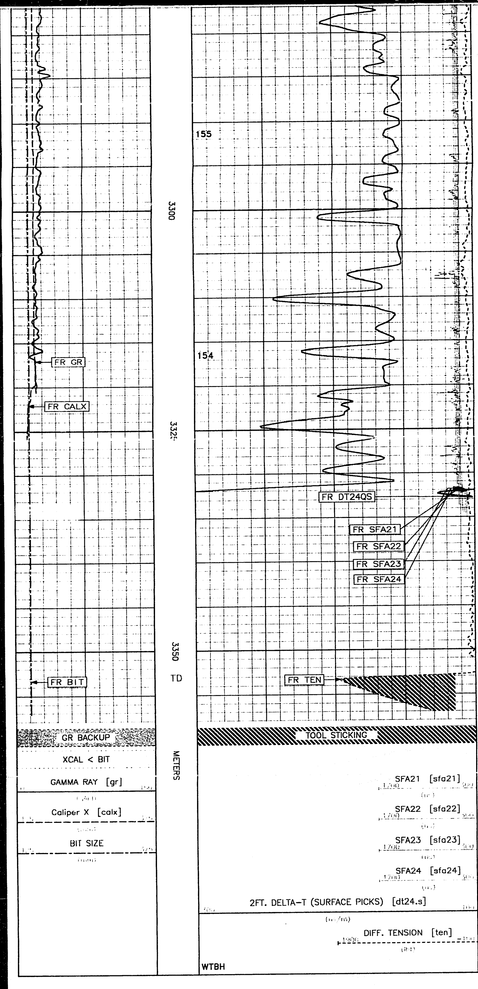
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTA1.5	34.37	TEN	0.00		
DTA1.5	34.37						

Presentation: c:\prof\utility\pmt\acl-2.7\new_acq\Default.pmt
Created By: Paul Garland
Company: Baker Atlas
Field: Bove
Well: Paramount Anadarko Bove J-76
Run: 3
Trip: 1
Date: 06-Feb-2002
Depth Reference: Kelly Bushing
Elevation: 417.2 m
Permanent Datum: Ground Level
Elevation: 412.0 m
Log Measured From: Kelly Bushing
5.3 m Above Permanent Datum
Drill Measured From: Kelly Bushing
Casing Driller: 177.8 mm @ 2806.0 m
Casing Logger: 2806.8 m
Bit Size: 152.0 mm
Fluid Type: CELCIUM
Density: 1.170 g/c3
Viscosity: 80.0 s
Ph: 10.0
Fluid Loss: 5.5 cc
Source of Sample: FLOWLINE
Rm @ Meas. Temp: 2.50 ohm @ 21.28 degC
Rmf @ Meas. Temp: 2.47 ohm @ 20.52 degC
Rmc @ Meas. Temp: 2.63 ohm @ 20.46 degC
Source of Rmf: MEASURED
Source of Rmc: MEASURED
Rm @ BHT: 0.6 ohm @ 155.6 degC
Time Since Circ.: 20.0 Hours
Max. Recorded Temp: 155.6 degC
Equip. No.: 16, 6506
Location: GR, PRAIRIE
Recorded By: A.BALOG, W.VICKERD
Witnessed By: D. TAYLOR
Bit Size: 152.0 mm
Type Fluid in Hole: CELCIUM
Density: 1.170 g/c3
Viscosity: 80.0 s
Ph: 10.0
Fluid Loss: 5.5 cc
Source of Sample: FLOWLINE
Rm @ Meas. Temp: 2.50 ohm @ 21.28 degC
Rmf @ Meas. Temp: 2.47 ohm @ 20.52 degC
Rmc @ Meas. Temp: 2.63 ohm @ 20.46 degC
Source of Rmf: MEASURED
Source of Rmc: MEASURED
Rm @ BHT: 0.6 ohm @ 155.6 degC
Time Since Circ.: 20.0 Hours
Max. Recorded Temp: 155.6 degC
Equip. No.: 16, 6506
Location: GR, PRAIRIE
Recorded By: A.BALOG, W.VICKERD
Witnessed By: D. TAYLOR
Run: 3
Trip: 1
Service Order: 201455
Depth Driller: 3390.0 m
Depth Logger: 3353.5 m
Bottom Logged Interval: 3351.1 m
Top Logged Interval: 2806.5 m
Casing Driller: 177.8 mm @ 2806.0 m
Casing Logger: 2806.8 m
Bit Size: 152.0 mm
Type Fluid in Hole: CELCIUM
Density: 1.170 g/c3
Viscosity: 80.0 s
Ph: 10.0
Fluid Loss: 5.5 cc
Source of Sample: FLOWLINE
Rm @ Meas. Temp: 2.50 ohm @ 21.28 degC
Rmf @ Meas. Temp: 2.47 ohm @ 20.52 degC
Rmc @ Meas. Temp: 2.63 ohm @ 20.46 degC
Source of Rmf: MEASURED
Source of Rmc: MEASURED
Rm @ BHT: 0.6 ohm @ 155.6 degC
Time Since Circ.: 20.0 Hours
Max. Recorded Temp: 155.6 degC
Equip. No.: 16, 6506
Location: GR, PRAIRIE
Recorded By: A.BALOG, W.VICKERD
Witnessed By: D. TAYLOR




2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000


141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150
3175
3200
3225
3250
3275



REPEAT PASS

May 21, 2001 Updates: 1,2

Fileview 3.20 Porpit /main/53

Cplot 5.10 Pdl_Cpp /main/16

Thu Feb 7 14:45:23 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data1/pcas/para_j-76/g779b801.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 3285.018 m BOTTOM DEPTH: 3364.992 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.in)	medium (1)		"	"
	FILTER (.1)	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
DT24	FILTER ()	light (2)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm	"	"
X-Y CALIPER	X-Axis CALIPER	DENSITY CALIPER		"	"
BIT SIZE	BIT SIZE	152.000	mm		

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival			

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
DELTA-T REJECTION RANGE	REJECTION DTmin	131	us/m	"	"
	REJECTION DTmax	591	us/m	"	"
FIRST ARRIVAL PICK (SUB 85,6)	SEARCH START OFFSET (sfa21*)	0	us	"	"
	SEARCH START OFFSET (sfa22*)	0	us	"	"
	SEARCH START OFFSET (sfa23*)	0	us	"	"
	SEARCH START OFFSET (sfa24*)	0	us	"	"
	SEARCH WINDOW LENGTH	1200	us	"	"
	THRESHOLD FACTOR	0.30		"	"
	THRESHOLD MINIMUM (sfa21*)	35		"	"
	THRESHOLD MINIMUM (sfa22*)	35		"	"
	THRESHOLD MINIMUM (sfa23*)	35		"	"
	THRESHOLD MINIMUM (sfa24*)	35		"	"
	ES THRESHOLD	OFF			

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
WAVEFORM FILTER - DELTA T	SURFACE WAVE FILTER	ON		"	"
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	20000	Hz	"	"

CURVE DESCRIPTION REPORT

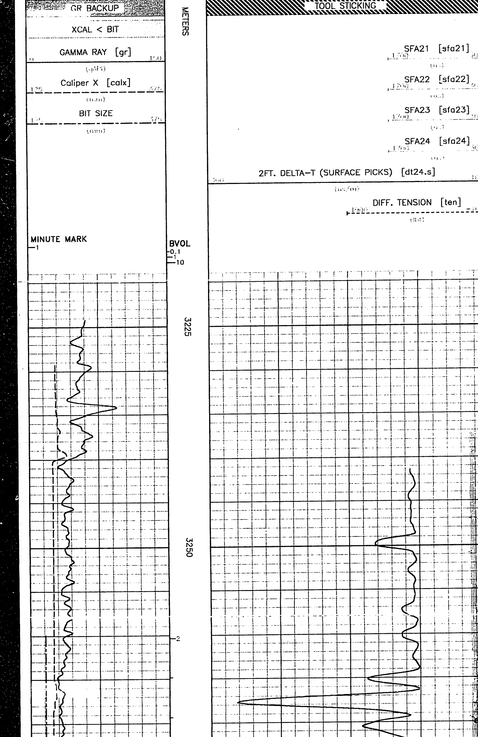
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 07:45:58 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 07:45:58 2002	BOREHOLE VOLUME
F1:CALX	CALX	Feb 7 07:45:59 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:DT24QS	DT24.S	Feb 7 07:46:12 2002	INTERVAL TRANSIT TIME OVER 24 INCH INTERVAL
F1:GR	GR	Feb 7 07:46:21 2002	GAMMA RAY
F1:MARK	MARK	Feb 7 07:46:30 2002	MINUTE MARK
F1:SFA21	SFA21	Feb 7 07:47:15 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R1
F1:SFA22	SFA22	Feb 7 07:47:16 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R2
F1:SFA23	SFA23	Feb 7 07:47:17 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R3
F1:SFA24	SFA24	Feb 7 07:47:17 2002	SURFACE PICK FIRST ARRIVAL TIME, T2R4
F1:TEN	TEN	Feb 7 07:47:40 2002	DIFFERENTIAL TENSION

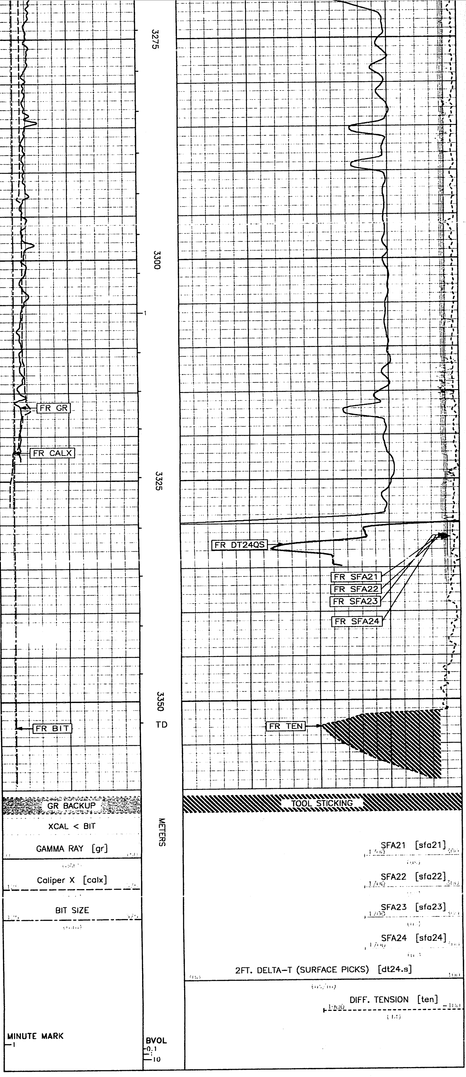
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	36.27	SFA23	21.49		
CALX	31.17	SFA21	21.18	SFA24	21.49		
DT24QS	20.57	SFA22	21.34	TEN	0.00		

Presentation : cpus1:/data1/pcas/para_j-76/mac_rpt.ppf [1:240 Scale]
Plot Interval : 3218.91 - 3359.65 Meters

Data File 1 : f1 : cpus1:/data1/pcas/para_j-76/g779b801.dlis
Created On : Fri 7 07:45:51 2002
Company : PARAMOUNT RESOURCES CANADA
Well : PARAMOUNT ANADARKO ET AL BOVIE
Field : BOVIE
File Interval : 3218.91 - 3359.65 Meters
Oct : g779b





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/para_j-76/gr79b.tpl

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Thu Jan 31 13:34:33 2002

UNIT #: 3880TC HL6558 — CALB JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	349.67	1263.84	914.2 (910.0 960.)	0.164	57.37	207.37	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Thu Jan 31 13:48:42 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	347.36	1268.58	0.164	56.99	208.15	151.16 (140.80 160.00)

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Wed Feb 06 14:27:22 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	244.69	1139.56	0.164	40.15	186.98	146.83 (141.16 160.16)

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Wed Feb 06 23:24:16 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	268.36	1166.93	0.164	44.03	191.47	147.44 (136.61 156.13)

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Mon Jan 14 11:34:35 2002

UNIT #: 3880TC HL6558

	SMALL RING (raw)	LARGE RING (raw)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	2052.8	2721.2	0.15200	-108.83548	203.200	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Wed Feb 06 14:54:23 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (mm)
CALIPER	1687.3	0.15200	-97.07774	159.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Wed Feb 06 21:55:52 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (mm)
CALIPER	1805.1	0.15200	-97.07774	177.306 (166.700 177.100)

BAKER HUGHES

Baker Atlas

COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADARKO BOVIE J-76
FIELD	BOVIE
PROVINCE	NWT
LOCATION:	
LIC: 1931	
API: 300-J-76-00A-17.45-00	
ELEVATIONS: KB 417.3 M, DF	
DATE	06-Feb-2002

FILE NO:

API NO:

DENSITY

N.E.B. COPY

COMPENSATED DENSILOG™
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
XY CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANNAMARIE BOYE 2-76
API NO:	FIELD	BOYE
	PROVINCE	WBT

Ver. 3.81

LOCATION:
LIC: 1631

UNIT: 300-J-76-6020-12345-00

OTHER SERVICES
HDIL-GR-CAL
MP-GR-CAL
DIL

ELEVATIONS:
KB 417 ft
GL 412.0 ft

PERMANENT DATUM	G.L.	ELEVATION	412.0 ft
LOG MEASURED FROM	K.B.	5.3 ft	ABOVE P.D.
DRILL MEASURED FROM	KELLY BUSHING		

DATE		9-Dec-2002	
RUN		1	1
SERV.		121580	
DEPTH - DRILLER		1022.0 M	
DEPTH - LOGGER		1026.0 M	
BOTTOM LOGGED INTERVAL		1024.1 M	
TOP LOGGED INTERVAL		311.5 M	
CASING - DRILLER		339.7 MM @311.0 M	@
CASING LOGGER		311.5 M	
BIT SIZE		311.0 MM	
TYPE OF FLUID IN HOLE		LIGNOSOL	
DENSITY	VISCOSITY	Q_000 Q/C3	N/A	
PH	FLUID LOSS	N/A	N/A	
SOURCE OF SAMPLE		N/A		
RM AT MEAS. TEMP.		N/A	@N/A	@
RMF AT MEAS. TEMP.		N/A	@N/A	@
RMC AT MEAS. TEMP.		N/A	@N/A	@
SOURCE OF RMF	RMC	N/A	N/A	
RM AT BHT		N/A	@3.8 DEGC	
TIME SINCE CIRC.		28	12.0 HOURS	
MAX. RECORDED T			43.8 DEGC	
LOGGING UNIT NO.		LOCATION	6L 0358	GR. PRAIRIE
RECORDED BY			K. PYKE	
WITNESSED BY			G. LANDRY	

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REMARKS

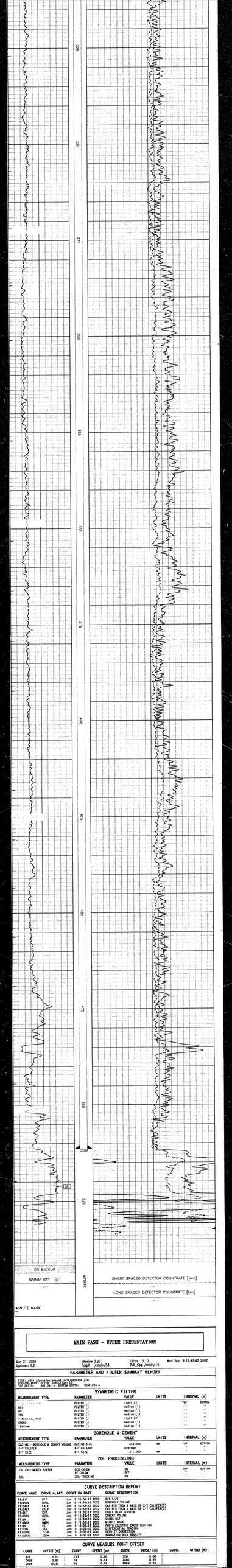
Bak-1 TOP 1 : TIME STOPPED CIRCULATION: JAN 6, 04:30.

PDC AND MC RECORDED AND PRESENTED IN LIMESTONE MATRIX, TD = 5C
TWO MRC+ PASSES RECORDED IN DOLOMITE MATRIX, TD = 5C
TWO MRC+ PASSES RECORDED IN SANDSTONE MATRIX, TD = 5C, PARAMETERS.

DC IS ENVIRONMENTALLY CORRECTED.

CREW: F. BARRETT, T. LOGE RIG: SWISH #6C

RUN	TOP	TOOL STRING (BOTTOM TO TOP)	SERIAL NO.	EQUIPMENT DATA
1		GR/CCL DIL-SUB SLS-DIR CNTH-SB MRC+ SDLT-SB SDLT-PAD SPECTRAL GR MICRO-SFL CALIPER	1308 1308 1308 1308 1308 1308 1308 1308 1308 1308	CASING TOP 311.5 m DIA 6" 15.24 m DIA 6" 15.24 m DIA 6" 15.24



MAIN PASS - UPPER PRESENTATION

May 21, 2001
Updates: 1,2

Fileview 3.20
Purpil /main/53

Cplot 5.10
Pdf_Cpp /main/16

Wed Jun 9 17:47:42 2002

PARAMETER AND FILTER SUMMARY REPORT

File: /data/epsa/personnel_a-j/SUPERMTA.scn
LOGGING DIRECTION: DOWNWARDS
TOP DEPTH: 331.261 m BOTTOM DEPTH: 1630.224 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
	FILTER ()	tight (3)		..	..
Cali	FILTER ()	medium (1)		..	..
GR	FILTER ()	medium (1)		..	..
SP	FILTER ()	medium (1)		..	..
X AXIS CALIPER	FILTER ()	tight (2)		..	..
SPEED	FILTER ()	medium (1)		..	..
TENSION	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm	..	..
X-Y CALIPER	X-Y Caliper	Average		..	..
BIT SIZE	BIT SIZE	311.000	mm	..	..

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CNI-SMOOTH FILTER	DEN CNISM	ON		..	..
	PE EN1SM	OFF		..	..
ZDL	ZDL TRACKING	ON		..	..

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jun 9 16:35:16 2002	BIT SIZE
F1:SVOL	SVOL	Jun 9 16:35:16 2002	WORKSHOE VOLUME
F1:CALI	CALI	Jun 9 16:35:16 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jun 9 16:35:16 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CVOL	CVOL	Jun 9 16:35:16 2002	CASING VOLUME
F1:CMVL	CMVL	Jun 9 16:35:16 2002	CEMENT VOLUME
F1:GR	GR	Jun 9 16:35:16 2002	GAMMA RAY
F1:MRK	MARK	Jun 9 16:35:16 2002	MINUTE MARK
F1:FE	FE	Jun 9 16:35:16 2002	ELECTRIC ASTYMUTRIC CROSS-SECTION
F1:TEN	TEN	Jun 9 16:35:16 2002	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Jun 9 16:35:16 2002	DENSITY CORRECTION
F1:ZDEN	ZDEN	Jun 9 16:35:16 2002	FORMATION BULK DENSITY

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CVT	0.00	TEN	0.00		
CALY	0.99	GR	0.14	ZCOR	0.99		
CALI	10.30	FE	0.99	ZDEN	0.99		

Presentation	c:\gvil\data\pass\paramount_jr-7E\sd_ss.pdf (1:600 Scale)
Plot Interval	486.08 - 1650.22 Meters
Data File 1	r:\gvil\data\pass\paramount_jr-7E\gl54054.xtf
Created On	Jan 9 16:35:16 2002
Company	PARAMOUNT RESOURCES LTD.
Well	PARAMOUNT ANDARKO BOYE J-7E
Field	BOYE
File Interval	486.08 - 1650.22 Meters
Bit	gl54d

GR BACKUP

XCAL < BIT

YCAL < BIT

GAMMA RAY [gr]

Caliper X [calx]

Caliper Y [caly]

BIT SIZE

MINUTE MARK

BVOL

Cement

MAIN PASS

BULK DENSITY [zden]

P.E. [pe]

Z-CORR [zcor]

DIFF. TENSION [ten]

CH-TENSION [cht]

PE ZDEN ZCOR TEN CHT

GR CALX CALY BIT

FR CALX FR BIT FR GR FR CALY FR ZDEN FR ZCOR FR PE FR TEN FR CHT

TD

MAIN PASS

BULK DENSITY [zden]

P.E. [pe]

Z-CORR [zcor]

DIFF. TENSION [ten]

CH-TENSION [cht]

MINUTE MARK

BVOL

Cement

MAIN PASS - LIMESTONE MATRIX

May 21, 2001
Updates: 1,2

Flowline 5.20
Purge /main/53

Cplot 5.10
Fdt_Cpp /main/16

Wed Jan 9 17:33:12 2002

PARAMETER AND FILTER SUMMARY REPORT

File: r:\gvil\data\pass\paramount_jr-7E\gl54054.pre
Logging Mode: DEPTH: DIRECTIONAL
Top Depth: 501.09 m Bottom Depth: 1650.324 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER (3)	light (3)		TOP	BOTTOM
CHT	FILTER (3)	medium (1)		"	"
DEN	FILTER (3)	medium (1)		"	"
GR	FILTER (3)	medium (1)		"	"
ZDL	FILTER (3)	medium (1)		"	"
Y AXIS CALIPER	FILTER (3)	light (3)		"	"
SPEED	FILTER (3)	medium (1)		"	"
TENSION	FILTER (3)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	m	TOP	BOTTOM
	CASING O.D.	244.500	mm	"	"
BH CALIPER	BH Caliper	Average		"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbh*)	USE CALIPER		"	"
BOREHOLE DIAMETER	FIXED DIAMETER (cmbh*)	311.000	mm	"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	444.000	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CH-SMOOTH FILTER	DEN SMTH	ON		TOP	BOTTOM
	PE SMTH	OFF		"	"
DENSITY POROSITY	Matrix	2.650	g/cm3	"	"
	Fluid	1.000	g/cm3	"	"
	Method(for time)	Wtmatrix		"	"
ZDL	ZDL TRACK-180	ON			

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 16:35:16 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 16:35:16 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 9 16:35:16 2002	CALIPER FROM X AXIS OF 8-H CALIPER(S)
F1:CALY	CALY	Jan 9 16:35:16 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 16:35:16 2002	CABLE HEAD TENSION
F1:CNCLS	CNCLS	Jan 9 16:35:16 2002	BH SIZE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 9 16:35:16 2002	CEMENT VOLUME
F1:GR	GR	Jan 9 16:35:16 2002	GAMMA RAY
F1:MMRK	MMRK	Jan 9 16:35:16 2002	MINUTE MARK
F1:PE	PE	Jan 9 16:35:16 2002	PHOTO ELECTRIC CROSS-SECTION
F1:PORZLS	PORZLS	Jan 9 16:35:16 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Jan 9 16:35:16 2002	CABLE HEAD TENSION
F1:TEMP		Jan 9 16:35:16 2002	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Jan 9 16:35:16 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	0.99	ZCOR	0.99
CALX	0.99	CNCLS	6.32	PORZLS	0.99		
CALY	11.32	GR	9.14	TEN	0.00		

Presentation	c:\gvil\data\pass\paramount_jr-7E\sd_main.pdf (1:240 Scale)
Plot Interval	486.08 - 1650.22 Meters
Data File 1	r:\gvil\data\pass\paramount_jr-7E\gl54054.xtf
Created On	Jan 9 16:35:16 2002
Company	PARAMOUNT RESOURCES LTD.
Well	PARAMOUNT ANDARKO BOYE J-7E
Field	BOYE
File Interval	486.08 - 1650.22 Meters
Bit	gl54d

GR BACKUP

XCAL < BIT

YCAL < BIT

GAMMA RAY [gr]

BIT SIZE

Caliper X [calx]

Caliper Y [caly]

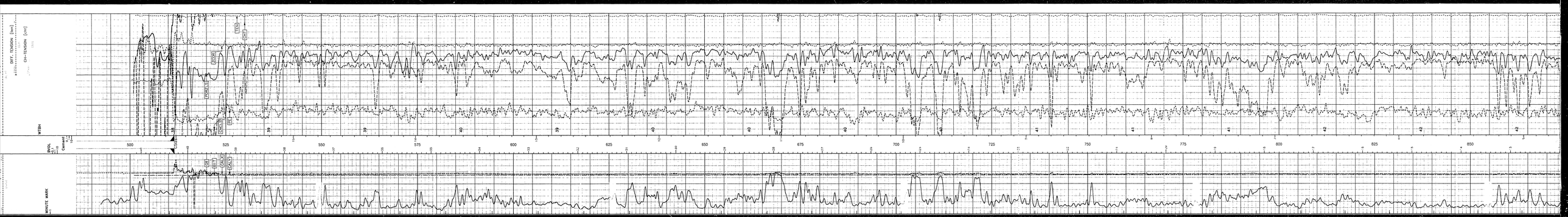
MAIN PASS

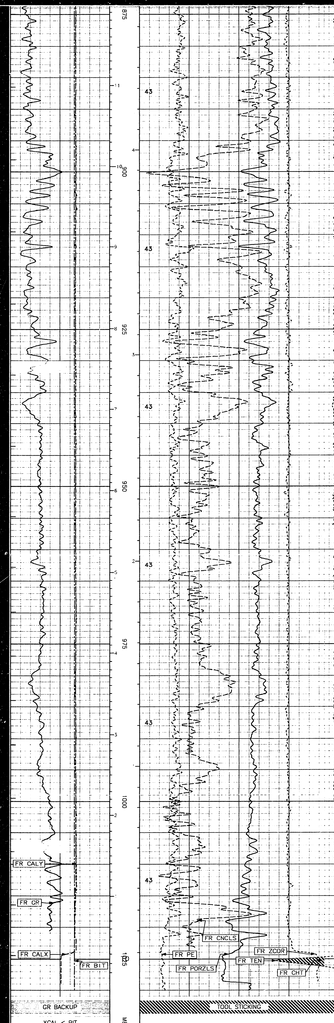
Z-DENSITY LIMESTONE POROSITY [porzls]

NEUTRON LIMESTONE POROSITY [cncls]

Z-CORR [zcor]

P.E. [pe]


DIFF. TENSION (ten)
Con-TENSION (con)
WTBH
BVOL
Cement
MINUTE MARK
500
525
550
575
600
625
650
675
700
725
750
775
800
825
850



REPEAT PASS - LIMESTONE MATRIX

Wed Jan 9 18:48:36 2002

Flowline 5.20
Purge /min/53

Cplot 5.10
Plot_Cplp /min/16

PARAMETER and FILTER SUMMARY REPORT

File: /data/people/paramount_J-76/plt5402.prn
Logging Speed (Sample Rate): 60.000 fpm
TOP DEPTH: 956.219 m BOTTOM DEPTH: 1030.224 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTYP ()	light (2)			
CAL	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
ZDL	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTYP ()	light (2)		"	"
STRESS	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	TOP	BOTTOM
	CASING O.D.	244.500	mm	"	"
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	311.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbs*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbs*)	311.000	mm	"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE, BEHIND CSNG	444.000	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CNH-SMOOTH FILTER	SEW CNTRM	ON		TOP	BOTTOM
	PEFCTRM	OFF		"	"
DENSITY POROSITY	MATRIX	1.000	g/cm3	"	"
	Bhbdefrlx (lime)	2.710	g/cm3	"	"
ZDL	ZDL TRACKING	ON		"	"

CURVE DESCRIPTION REPORT

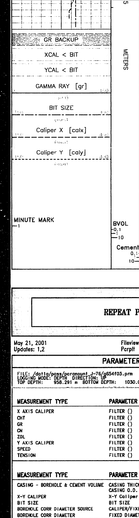
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 16:08:15 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 16:08:15 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 9 16:08:15 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 9 16:08:15 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CCOR	CCOR	Jan 9 16:08:15 2002	CN SALINITY CORR
F1:CNCLS	CNCLS	Jan 9 16:08:15 2002	CN SIZE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 9 16:08:15 2002	CEMENT VOLUME
F1:GR	GR	Jan 9 16:08:15 2002	GAMMA RAY
F1:MARK	MARK	Jan 9 16:08:15 2002	MINUTE MARK
F1:PE	PE	Jan 9 16:08:15 2002	PHOTOELECTRIC CROSS-SECTION
F1:PORZLS	PORZLS	Jan 9 16:08:15 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Jan 9 16:08:15 2002	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Jan 9 16:08:15 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNT	0.00	PE	0.99	ZCOR	0.99
CALX	15.32	CNCLS	9.14	PORZLS	0.99		
CALY	15.32	GR	9.14	TEN	0.00		

Presentation : cpol:/data/pass/paramount_J-76/plt_rpts.pdf [1540 Scale]
Plot Interval : 942.084 - 1029.69 Meters

Data File 1 : ft : cpol:/data/pass/paramount_J-76/plt5402.xtf
Created On : Jan 9 18:05:15 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANACARDO DOVE J-76
Field : WILDCAT
Plot Interval : 942.084 - 1029.69 Meters
Cplot : plt5402



REPEAT PASS #2- LIMESTONE MATRIX

May 21, 2001
Updates: 1,2

Fileview 3.20
Pumpt /mnn/53

Cplot 5.10
Pdf_Cpp /mnn/16

Wed Jan 9 18:46:09 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pex/user/prospect_jr/fp/gb54103.prm
CASE: 1 RUN: 1 PASS: 2 COMB: 1
TOP DEPTH: 858.281 m BOTTOM DEPTH: 1030.072 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
X AXIS CALIPER	FILTER ()	light (2)		**	**
CHT	FILTER ()	medium (1)		**	**
GR	FILTER ()	medium (1)		**	**
CN	FILTER ()	medium (1)		**	**
ZDL	FILTER ()	medium (1)		**	**
Y AXIS CALIPER	FILTER ()	light (2)		**	**
SPEED	FILTER ()	medium (1)		**	**
TENSION	FILTER ()	medium (1)		**	**

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	**	**
	CASING O.D.	244.500	mm	**	**
X-Y CALIPER	X-Y Caliper	Average		**	**
BIT SIZE	BIT SIZE	311.000	mm	**	**
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnde*)	USE CALIPER		**	**
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnde*)	311.000	mm	**	**

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		**	**
	BIT SIZE BEHIND CSNG	444.000	mm	**	**

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
ZDL CH-SMOOTH FILTER	BDN CH1SM	ON		TOP	BOTTOM
	PE CH1SM	OFF		**	**
DENSITY POROSITY	RHOTool	1.000	g/cm3	**	**
	RHOmatrix (Lime)	2.710	g/cm3	**	**
ZDL	ZDL TRACKING	ON		**	**

CURVE DESCRIPTION REPORT

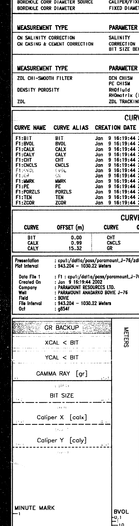
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 16:19:44 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 16:19:44 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 9 16:19:44 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 9 16:19:44 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 16:19:44 2002	CABLE HEAD TENSION
F1:CNCLS	CNCLS	Jan 9 16:19:44 2002	CALIBRATED LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 9 16:19:44 2002	CEMENT VOLUME
F1:GR	GR	Jan 9 16:19:44 2002	GAMMA RAY
F1:MARK	MARK	Jan 9 16:19:44 2002	MINUTE MARK
F1:PEF	PEF	Jan 9 16:19:44 2002	PHOTOELECTRIC CROSS-SECTION
F1:PORZLS	PORZLS	Jan 9 16:19:44 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Jan 9 16:19:44 2002	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Jan 9 16:19:44 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	0.99	ZCOR	0.99
CALX	10.32	CNCLS	0.00	PORZLS	0.00		
CALY	10.32	GR	9.14	TEN	0.00		

Presentation : cpu1/data/pex/paramount_jr-76/ab_cpld.prf [1:240 Scale]
Plot Interval : 843.204 - 1030.32 Meters

Data File 1 : ft:/cpu1/data/pex/paramount_jr-76/gb54103.ext
Created On : Jan 9 18:14:44 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BVHZ Jr-76
Field : BOWZ
File Interval : 843.204 - 1030.32 Meters
Out : gb54[ ]



MAIN PASS - SANDSTONE MATRIX

eXpress Release 3.0 May 02, 2001
Updates: 1

Fileview 3.10
Pumpt /mnn/54

Cplot 6.0
Pdf_Cpp /mnn/16

Thu Jan 10 09:36:23 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pex/user/fp/gb54104.prm
CASE: 1 RUN: 1 PASS: 3 COMB: 1
TOP DEPTH: 831.384 m BOTTOM DEPTH: 1030.224 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
X AXIS CALIPER	FILTER ()	light (2)		**	**
CHT	FILTER ()	medium (1)		**	**
GR	FILTER ()	medium (1)		**	**
CN	FILTER ()	medium (1)		**	**
ZDL	FILTER ()	medium (1)		**	**
Y AXIS CALIPER	FILTER ()	light (2)		**	**
SPEED	FILTER ()	medium (1)		**	**
TENSION	FILTER ()	medium (1)		**	**

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	TOP	BOTTOM
	CASING O.D.	244.500	mm	**	**
X-Y CALIPER	X-Y Caliper	Average		**	**
BIT SIZE	BIT SIZE	311.000	mm	**	**
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnde*)	USE CALIPER		**	**
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnde*)	311.000	mm	**	**

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		**	**
	BIT SIZE BEHIND CSNG	444.000	mm	**	**

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
ZDL CH-SMOOTH FILTER	BDN CH1SM	ON		TOP	BOTTOM
	PE CH1SM	OFF		**	**
DENSITY POROSITY	RHOTool	1.000	g/cm3	**	**
	RHOmatrix (sand)	2.650	g/cm3	**	**
ZDL	ZDL TRACKING	ON		**	**

CURVE DESCRIPTION REPORT

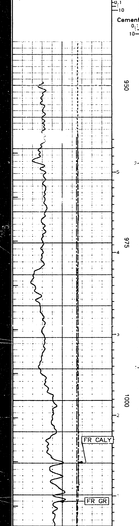
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 9 16:25:10 2002	BIT SIZE
F1:BVOL	BVOL	Jan 9 16:25:10 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 9 16:25:10 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 9 16:25:10 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 9 16:25:10 2002	CABLE HEAD TENSION
F1:CNSDS	CNSDS	Jan 9 16:25:10 2002	CALIBRATED SANDSTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 9 16:25:10 2002	CEMENT VOLUME
F1:GR	GR	Jan 9 16:25:10 2002	GAMMA RAY
F1:MARK	MARK	Jan 9 16:25:10 2002	MINUTE MARK
F1:PEF	PEF	Jan 9 16:25:10 2002	PHOTOELECTRIC CROSS-SECTION
F1:PORZSS	PORZSS	Jan 9 16:25:10 2002	POROSITY FOR SANDSTONE MATRIX
F1:TEN	TEN	Jan 9 16:25:10 2002	DIFFERENTIAL TENSION
F1:WTBH		Jan 9 16:25:10 2002	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Jan 9 16:25:10 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

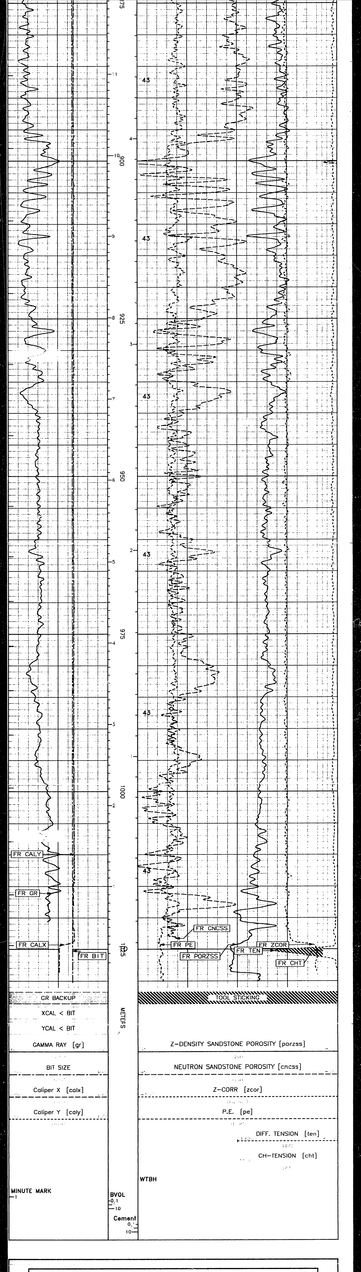
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	0.99	ZCOR	0.99
CALX	10.32	CNSDS	0.00	PORZSS	0.00		
CALY	10.32	GR	9.14	TEN	0.00		

Project : /data/wsk/16418
Presentation : sidekick/ab_cpld.prf [1:240 Scale]
Plot Interval : 480.00 - 1030.22 Meters

Data File 1 : ft:/cpu1/data/wsk/16418/gb54104.ext
Created On : Jan 9 18:26:16 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BVHZ Jr-76
Field : BOWZ
File Interval : 480.00 - 1030.22 Meters
Out : gb54[ ]




DIF. TENSION [cm]
CH=TENSION [cm]
WTBH
BVOL
Camera1
MINUTE MARK
CH1
CH2
CH3
CH4
CH5
CH6
CH7
CH8
500
525
550
575
600
625
650
675
700
725
750
775
800
825
850
875



MAIN PASS - DOLOMITE MATRIX

Version 5.20 — Cplot 5.10 — Wed Jun 9 17:45:29 2002
Tty /dev/... — Perp8 /main/53 — Pdf_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pdata/paramount_J-76/pd54104.prn
TOP DEPTH: 501.064 m BOTTOM DEPTH: 1030.224 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER ()	light (2)		...	...
CNT	FILTER ()	medium (1)		...	...
GR	FILTER ()	medium (1)		...	...
CN	FILTER ()	medium (1)		...	...
ZDL	FILTER ()	medium (1)		...	...
Y AXIS CALIPER	FILTER ()	light (2)		...	...
SPEED	FILTER ()	medium (1)		...	...
TENSION	FILTER ()	medium (1)		...	...

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	TOP	BOTTOM
	CASING O.D.	244.500			
X-Y CALIPER	X-Y Caliper	Average		...	...
BIT SIZE	BIT SIZE	311.000	mm	...	...
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (calA*)	USE CALIPER		...	...
BOREHOLE CORR DIAMETER	FIXED DIAMETER (calA*)	311.000	mm	...	...

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		...	...
	BIT SIZE BEHIND CSNG	444.000	mm	...	...

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CHI-SMOOTH FILTER	DEN CHISM	ON		TOP	BOTTOM
	PE CHISM	OFF		...	...
DENSITY POROSITY	RMATdefn	1.000	g/cm3	...	...
	RFLUIDdefn (delo)	2.000	g/cm3	...	...
ZDL	ZDL TRACKING	ON		...	...

CURVE DESCRIPTION REPORT

CURVE DESCRIPTION

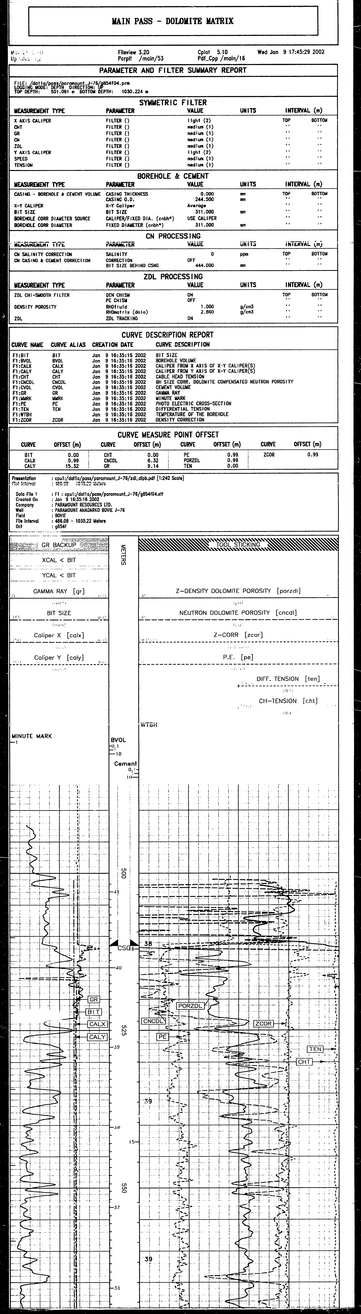
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jun 9 16:35:16 2002	BIT SIZE
F1:BVOL	BVOL	Jun 9 16:35:16 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jun 9 16:35:16 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jun 9 16:35:16 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jun 9 16:35:16 2002	CABLE HEAD TENSION
F1:CNCDL	CNDL	Jun 9 16:35:16 2002	CNDL - DOLOMITE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jun 9 16:35:16 2002	CEMENT VOLUME
F1:GR	GR	Jun 9 16:35:16 2002	GAMMA RAY
F1:MARK	MRK	Jun 9 16:35:16 2002	MINUTE MARK
F1:PE	PE	Jun 9 16:35:16 2002	PHOTO ELECTRIC CROSS-SECTION
F1:TEN	TEN	Jun 9 16:35:16 2002	DIFFERENTIAL TENSION
F1:WTBH		Jun 9 16:35:16 2002	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Jun 9 16:35:16 2002	DENSITY CORRECTION

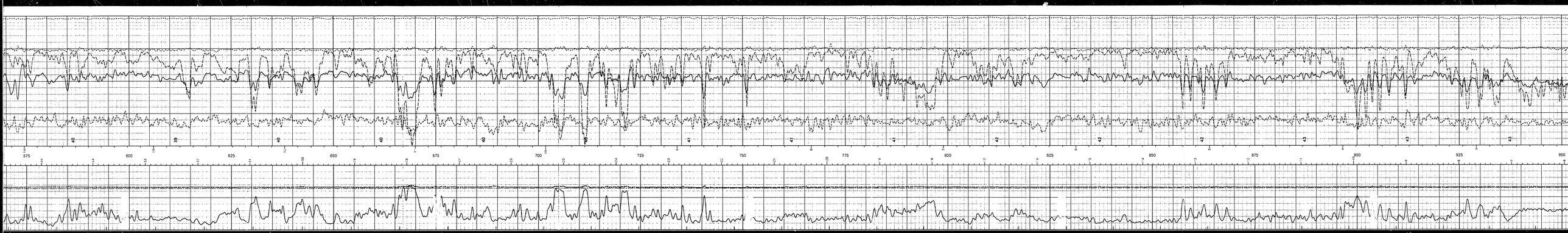
CURVE MEASURE POINT OFFSET

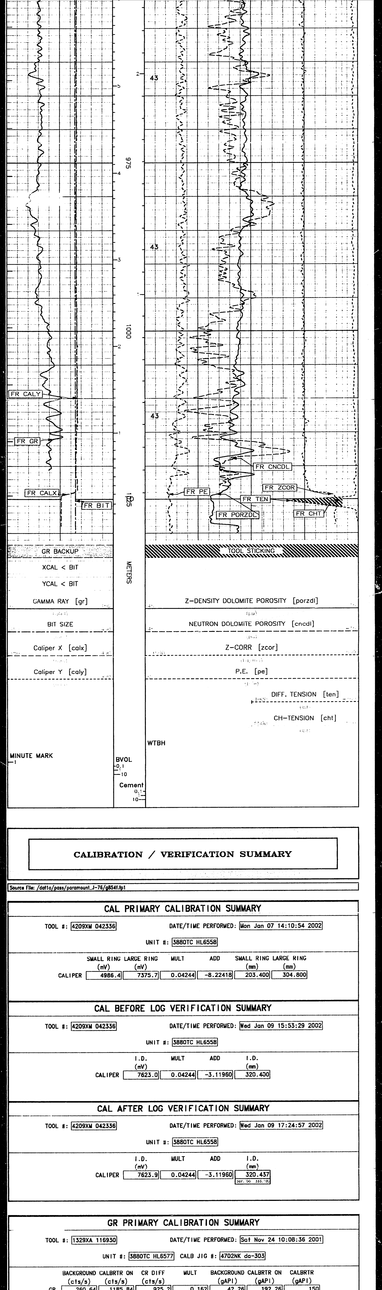
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	0.99	ZCOR	0.99
CALX	0.99	CNDL	0.52	PORZDL	0.99		
CALY	15.32	GR	0.14	TEN	0.00		

Presentation : cpol:/data/pdata/paramount_J-76/tst_dlsh.pdf [1:240 Scale]
Plot Interval : 501.01 - 1015.22 Meters

Data File 1 : F1 : cpol:/data/pdata/paramount_J-76/pd54104.crf
Created On : Sun 9 16:35:16 2002
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANACONDA BOYNE J-76
Field : WILDCAT
File Interval : 486.08 - 1030.22 Meters
Unit : cpol




40
39
40
40
40
36
41
41
41
42
42
42
43
43
575
600
625
650
675
700
725
750
775
800
825
850
875
900
925
950



CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/porgmount.J-76/g8541p1

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4209XM 042336 | DATE/TIME PERFORMED: Mon Jan 07 14:10:54 2002

UNIT #: 3880TC HL6558

	SMALL RING LARGE RING (cal)	(air)	MULT	ADD	SMALL RING LARGE RING (in)	(in)
CALIPER	4886.4	7375.7	0.04244	-8.22418	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 | DATE/TIME PERFORMED: Wed Jan 09 15:53:29 2002

UNIT #: 3880TC HL6558

	I.D. (air)	MULT	ADD	I.D. (in)
CALIPER	7823.2	0.04244	-3.11960	320.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4209XM 042336 | DATE/TIME PERFORMED: Wed Jan 09 17:24:57 2002

UNIT #: 3880TC HL6558

	I.D. (air)	MULT	ADD	I.D. (in)
CALIPER	7823.9	0.04244	-3.11960	320.437
			191.10	191.10

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 | DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001

UNIT #: 3880TC HL6577 | CALIB JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	CR DIFF (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	(gAPI)	CALIBRTR ON (gAPI)	(gAPI)
GR	260.64	1185.84	925.2	0.162	42.26	192.26	150	
		974.4	948.0					

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 | DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001

UNIT #: 3880TC HL6577 | VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	(gAPI)	DIFF. (gAPI)	
GR	264.04	1190.67	0.162	42.81	193.04	150.23	
						191.91	148.15

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 | DATE/TIME PERFORMED: Wed Jan 09 11:48:53 2002

UNIT #: 3880TC HL6558 | VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	(gAPI)	DIFF. (gAPI)	
GR	197.60	1095.80	0.162	32.04	177.66	145.62	
						191.91	148.15

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 | DATE/TIME PERFORMED: Wed Jan 09 14:52:09 2002

UNIT #: 3880TC HL6558 | VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTR ON (cts/s)	(cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	(gAPI)	DIFF. (gAPI)	
GR	213.36	1115.49	0.162	34.59	180.85	146.26	
						191.91	148.15

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 153089 | DATE/TIME PERFORMED: Fri Nov 23 16:12:29 2001

UNIT #: 3880TC HL6577 | CALIBRATOR #: 2437XB 114700 | SOURCE #: 4717XS 000565

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	700.38	712.35				
SSN	1796.18	1863.11				
RATIO			2.61543	2.75100	1.05184	
					1.0000 1.0000	
CN						21.358

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 153089 | DATE/TIME PERFORMED: Fri Nov 23 16:30:58 2001

UNIT #: 3880TC HL6577 | ICE BLOCK #: 4717ND Od-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1233.08	1270.69				
SSN	1614.96	1668.89				
RATIO			1.31337	1.05184	1.38235	
CN						4.338

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153089 | DATE/TIME PERFORMED: Wed Jan 09 15:28:24 2002

UNIT #: 3880TC HL6558 | ICE BLOCK #: 4717ND Od-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1200.13	1235.76				
SSN	1615.22	1669.17				
RATIO			1.35073	1.05184	1.42188	
CN						4.779
						4.338 4.338

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153089 | DATE/TIME PERFORMED: Wed Jan 09 18:38:44 2002

UNIT #: 3880TC HL6558 | ICE BLOCK #: 4717ND Od-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1198.58	1234.11				
SSN	1621.00	1675.34				
RATIO			1.35754	1.05184	1.42907	
CN						4.839
						4.779 4.779

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 166517 | DATE/TIME PERFORMED: Mon Jan 07 14:01:36 2002

UNIT #: 3880TC HL6558

	SMALL RING LARGE RING (raw)	(raw)	MULT	ADD	SMALL RING LARGE RING (in)	(in)
CALIPER	2048.1	2702.2	0.15502	-114.10105	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 | DATE/TIME PERFORMED: Wed Jan 09 15:54:00 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	2855.2	0.15502	-122.21945	320.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 | DATE/TIME PERFORMED: Wed Jan 09 17:24:52 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	2856.5	0.15502	-122.21945	320.602
				320.400 320.400

ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 4209XM 166517 | DATE/TIME PERFORMED: Mon Jan 07 13:48:49 2002

UNIT #: 3880TC HL6558 CALB. BLOCK SET: 2225XA 150415 CS SOURCE #: 4703NT 000709

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG BLOCK (LO PE)	11400.2	4529.0	5485.1	0.700 (0.635 0.725)	1687.000	7.000	2.293
AL BLOCK	5754.6	465.3	595.3		2686.000	-13.000	
AL+SHIM (CORR)	8016.9	799.5	1004.4		2601.000	166.000	
MG+SHIM (HI PE)		2154.7	2763.6	0.285 (0.270 0.310)			10.580
RATIO MG/AL	1.98 (1.97 2.07)	9.73 (9.30 10.40)	9.21 (8.75 9.75)				

BACKGROUND (cts/s)	CS PEAK CHANNEL #	AM PEAK CHANNEL #
1140.7	229.5 (225.0 235.5)	24.0 (21.0 25.5)

ZDL PRIMARY VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Mon Jan 07 13:55:35 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9058.2	2056.4	4925.6	0.186	1753.908	-103.537	15.798

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Wed Jan 09 15:33:18 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9039.8	2060.4	4933.5	0.186 (0.166 0.206)	1750.709 (1728.908 1772.908)	-105.954 (-128.537 -78.537)	15.804

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Wed Jan 09 18:33:29 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9170.7	2076.1	4894.6	0.192 (0.166 0.206)	1766.626 (1725.709 1775.709)	-91.445 (-130.954 -81.954)	15.483

BAKER HUGHES

Baker Atlas

COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ANADARKO BOVIE J-76
FIELD BOVIE
PROVINCE NWT

FILE NO:

API NO:

LOCATION:
LIC: 1931
UWI: 300-J-76-6020-12245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 9-JAN-2002

BAKER HUGHES

COMPENSATED Z-DENSILOG ®
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
XY CALIPER LOG

Baker Atlas

N.E.B. COPY

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT

Ver. 3.81

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

OTHER SERVICES
NGL, SHDA,
MAC-GR-KT,
CNL

PERMANENT DATUM	G.L.	ELEVATION	412.0 ft
LOG MEASURED FROM	K.B.	5.3 M	ABOVE P.D.
DRILL MEAS. FROM	KELLY BUSHING		

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE	22-JAN-2002
RUN	2
SERVICE ORDER	20592
DEPTH DRILLER	2811.0 M
DEPTH LOGGER	2811.0 M
BOTTOM LOGGED INTERVAL	2798.6 M
TOP LOGGED INTERVAL	1027.4 M
CASING DRILLER	244.5 MM @ 1027.4 M
CASING LOGGER	1027.2 M
BIT SIZE	222.2 MM
TYPE FLUID IN HOLE	INVERT
DENSITY / VISCOSITY	0.935 G/C3 / 53.0 S
PH / FLUID LOSS	N/A / N/A
SOURCE OF SAMPLE	N/A
RM AT MEAS. TEMP.	N/A @ N/A
RM AT MEAS. TEMP.	N/A @ N/A
RMC AT MEAS. TEMP.	N/A @ N/A
SOURCE OF RMF / RMC	N/A / N/A
RM AT BHT	0.137 @ 60DC
TIME SINCE CIRC	1.5 HOURS
MAX. RECORDED T	137.4 DEGC
EQUIP. NO. / LOCATION	5558 / FORT PRAIRIE
RECORDED BY	SPIVEY / LAPOLLYN
WITNESSED BY	LOADER

IN MAKING INTERPRETATION OF LOGS OUR EMPLOYEES WILL USE DECISIONS BASED UPON DATA AND INFORMATION COLLECTED BY BAKER ATLAS AND OTHERS. BAKER ATLAS DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR SUFFICIENCY OF SUCH DATA AND INFORMATION. BAKER ATLAS WILL NOT BE RESPONSIBLE FOR ANY LOSS, DAMAGES OR EXPENSE INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

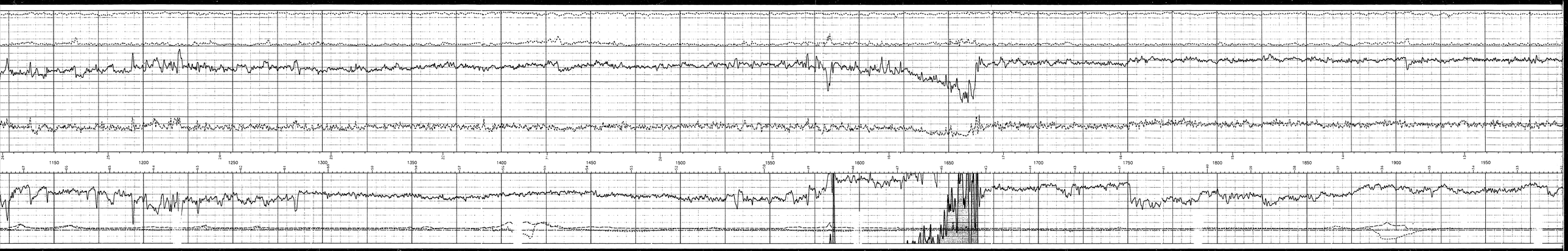
REMARKS

RUN 2 TOP TIE TIME STOPPED CIRCULATION: 17:00 22 JAN 2002.
TAG @ 2811.0 M.
DEPTH LOG WAS KEPT ATLAS RUN 1 LOGGED 21-JAN-2002.
ADDITIONAL DECK TO BOTTOM TO CONFIRM STICKY/TIGHT BETWEEN WIRELINE AND BIG DOG.
PASS ONE RECORDED AND PRESENTED IN LIMESTONE MATRIX, 2.71 G/C3.
DOLOMITE MATRIX VALUE OF 2.87 G/C3 ALSO PROVIDED IN DENSITY PLOTS.
DC IS RADIOACTIVE CALIPER CORRECTED.

CREW: E. BARRETT, J. SAMAGA RIG: SPERRY #4C

EQUIPMENT DATA

RUN	TOOL	SERIAL NO.	POSITION (FROM BOTTOM)
2	SDLT-A	5218	
2	DSNT-A	5218	
2	DGTC	5218	
2	DGTC	5218	
2	DGTC


1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950

MAIN PASS - LIMESTONE MATRIX

May 21, 2001
Updates: 1,2

Fileview 3.20
Pprpt /main/53

Cpicf 5.10
Pdf_Cpp /main/16

Mon Jan 28 11:47:32 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/open/permanent_1/6/GFTMAIN.pre
CASING MODE: DEPTH DIRECTION
TOP DEPTH: 952.248 m BOTTOM DEPTH: 2470.099 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER (2)	light (2)		"	"
CHT	FILTER (1)	medium (1)		"	"
GR	FILTER (1)	medium (1)		"	"
CS	FILTER (1)	medium (1)		"	"
ZDN	FILTER (1)	medium (1)		"	"
Y AXIS CALIPER	FILTER (2)	light (2)		"	"
SPEED	FILTER (1)	medium (1)		"	"
TENSION	FILTER (1)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING + BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	"	"
	CASING O.D.	177.800	mm	"	"
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbh)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cmbh)	222.000	mm	"	"

CN PROCESSING

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF	--	--	--
	BIT SIZE BEHIND CSNG	200.025	mm	--	--

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
ZDL CH-SMOOTH FILTER	DEN SMTH	ON	--	--	--
	PE SMTH	OFF	--	--	--
DENSITY POROSITY	Rhbfield	1.000	g/cm3	--	--
	Rhomatrix (lime)	2.710	g/cm3	--	--
ZDL	ZDL TRACKING	ON	--	--	--

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:18 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:04:20 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 28 11:04:24 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 28 11:04:24 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 28 11:04:25 2002	CABLE HEAD TENSION
F1:CNCLS	CNCLS	Jan 28 11:04:52 2002	SW SIDE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 28 11:04:53 2002	CEMENT VOLUME
F1:GR	GR	Jan 28 11:05:08 2002	GAMMA RAY
F1:HWTH	HWTH	Jan 28 11:05:09 2002	WHITE MARK
F1:PE	PE	Jan 28 11:05:41 2002	PHOTO ELECTRIC CROSS-SECTION
F1:PORLLS	PORLLS	Jan 28 11:06:57 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Jan 28 11:10:13 2002	TENSION AT THE TOOL
F1:TEM	TEM	Jan 28 11:10:19 2002	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Jan 28 11:29:15 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	21.95	ZCOR	21.95
CALX	41.92	CNCLS	41.68	PORLLS	41.96		
CALY	36.27	GR	30.10	TEM	0.00		

Presentation : c:\pdc\data\pass\paramount_2-76\bit_matrix.ppf [1:240 Scale]
Plot Header : 1000 - 2815.59 Meters

Data File 1 : F1 : c:\pdc\data\pass\paramount_2-76\gr99tex.elf
Created On : 28-JAN-2002 11:04:18
Company : PARAMOUNT RESOURCES LTD.
Well : PARAMOUNT ANADARKO BONE 2-76
Field : BONE
File Interval : 916.076 - 2815.59 Meters
Run : gr99tp

GR BACKUP

XCAL < BIT

YCAL < BIT

GAMMA RAY [gr]

BIT SIZE

Caliper X [calx]

Caliper Y [caly]

MINUTE MARK

BVOL

Cement

MATRIX

Z-DENSITY LIMESTONE POROSITY [porzls]

NEUTRON LIMESTONE POROSITY [cncls]

Z-CORR [zcor]

P.E. [pe]

DIFF. TENSION [ten]

CH-TENSION [cht]

WTBH

GR

BIT

CALX

CALY

PORZLS

CNCLS

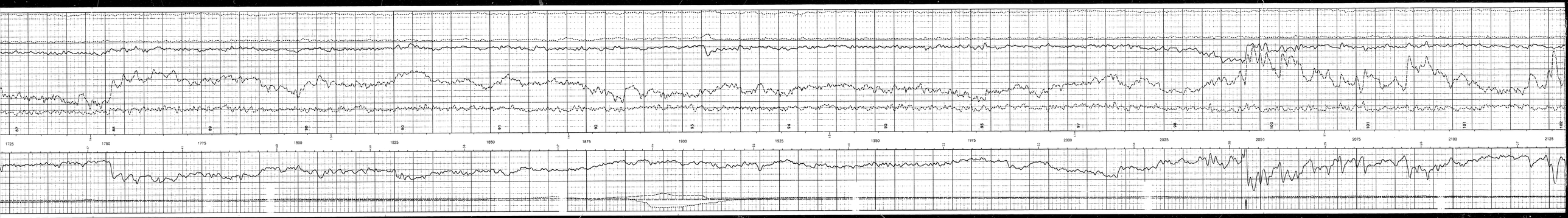
ZCOR

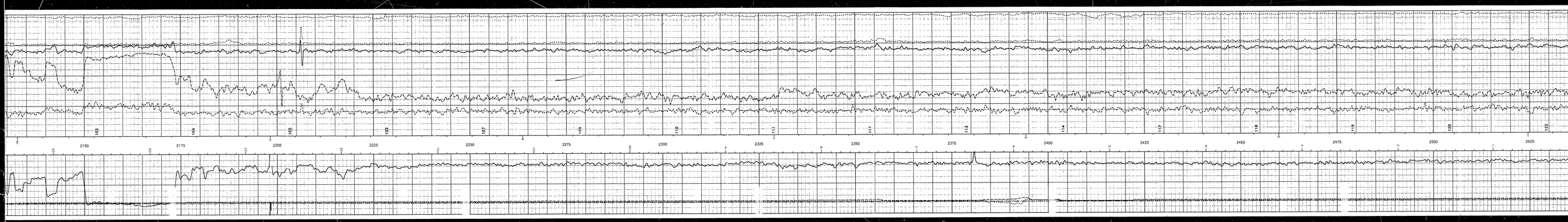
PE

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REPEAT PASS - LIMESTONE MATRIX

May 21, 2001
Spudmen: 1,2

Filerview 3,20
Paript /main/53

Cplot 5,10
Pdf.Scp /main/16

Mon Jan 28 13:24:45 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data1a/pass/paramount_1-76/g776603.prm
WELL: PARAMOUNT 1-76 API: 50-193-20696-00
TOP DEPTH: 2705.750 m BOTTOM DEPTH: 2810.438 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER (1)	light (2)		..	..
CR	FILTER (1)	medium (1)		..	..
GR	FILTER (1)	medium (1)		..	..
CN	FILTER (1)	medium (1)		..	..
ZDL	FILTER (1)	medium (1)		..	..
Y AXIS CALIPER	FILTER (1)	light (2)		..	..
SPEED	FILTER (1)	medium (1)		..	..
TENSION	FILTER (1)	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	..	..
	CASING O.D.	177.800	mm	..	..
X-Y CALIPER	X-Y Caliper	Average		..	..
BIT SIZE	BIT SIZE	222.000	mm	..	..
BOREHOLE CORR DIAMETER SOURCE	CALIPER USED FOR B/H. (cnav*)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnhv*)	222.000	mm	..	..

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	..	..
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		..	..
	BIT SIZE BEHIND CSNG	200.025	mm	..	..

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CH-SMOOTH FILTER	DEN CHSM	ON		..	..
	PE CHSM	OFF		..	..
DENSITY POROSITY	Matrix/g/cc (lime)	1.000	g/cm3	..	..
	Fluid/ Matrix/g/cc (lime)	2.710	g/cm3	..	..
ZDL	ZDL TRACKING	ON		..	..

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
FI:BIT	BIT	Jan 28 11:17:14 2002	BIT SIZE
FI:BVOL	BVOL	Jan 28 11:17:15 2002	BOREHOLE VOLUME
FI:CALX	CALX	Jan 28 11:17:16 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
FI:CALY	CALY	Jan 28 11:17:17 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
FI:CHT	CHT	Jan 28 11:17:17 2002	CABLE HEAD TENSION
FI:CNCLS	CNCLS	Jan 28 11:17:25 2002	8H SIDE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
FI:CVOL	CVOL	Jan 28 11:17:22 2002	CEMENT VOLUME
FI:GR	GR	Jan 28 11:17:22 2002	GAMMA RAY
FI:MARK	MARK	Jan 28 11:18:25 2002	MINUTE MARK
FI:PE	PE	Jan 28 11:18:50 2002	PHOTO ELECTRIC CROSS-SECTION
FI:PORZLS	PORZLS	Jan 28 11:19:07 2002	POROSITY FOR LIMESTONE MATRIX
FI:TEN	TEN	Jan 28 11:21:07 2002	DIFFERENTIAL TENSION
FI:ZDOM	ZDOM	Jan 28 11:24:27 2002	DENSITY CORRECTION

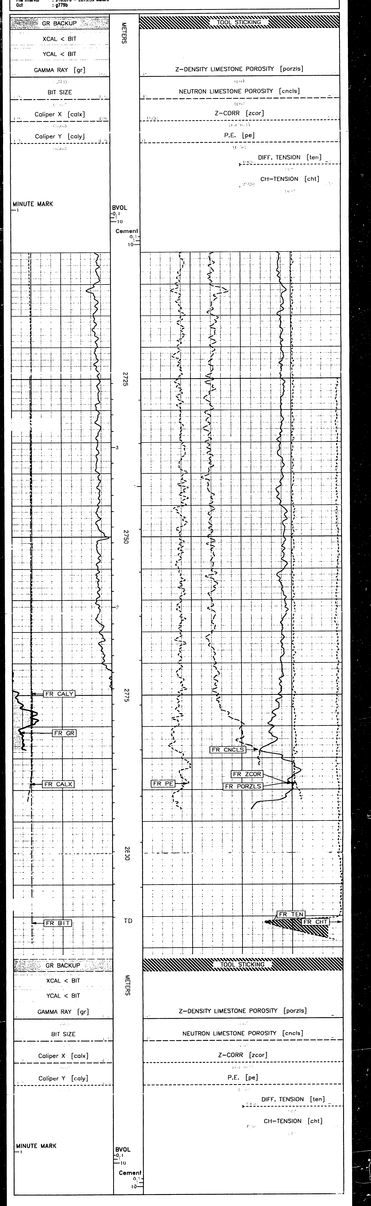
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CVOL	0.00	PE	21.93	ZDOM	21.93
..	21.93	CNCLS	27.28	PORZLS	21.93		
..	26.27	GR	30.10	TEN	0.00		

Presentation : cpu1:/data/pass/paramount_1-76/gR_ref.pdf [1:240 Scale]
Plot Interval : 2705 - 2815.29 Meters

Data File 1 : /1:/cpu1:/data/pass/paramount_1-76/g776603.dlis
Created On : Jan 28 11:17:13 2002
Logging Company : Schlumberger LDS

Well : PARAGON HAZARD BOVE 2-7S
Field : BOVE
File Interval : 918.078 – 2815.59 Meters
Cut : g77bb



MAIN PASS - DOLOMITE PLAYBACK

May 21, 2001
Updates: 1,2

Filerev 3.20
Purge: /main/53

Cplot 5.10
Pet_Cap /main/16

Mon Jnn 28 11:49:18 2002

PARAMETER AND FILTER SUMMARY REPORT

File: /data/aaa/paramount_j-7S/g77900.pre
Log Interval: 2815.59 to 918.078 Meters
TOP DEPTH: 902.043 m BOTTOM DEPTH: 2470.099 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
X AXIS CALIPER	FILTER ()	light (3)		"	"
DPH	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CN	FILTER ()	medium (1)		"	"
ZDL	FILTER ()	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	light (3)		"	"
SPECD	FILTER ()	medium (1)		"	"
	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING + BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	"	"
	CASING O.D.	177.800	mm	"	"
X-Y CALIPER	X-Y Caliper	Average		"	"
BIT SIZE	BIT SIZE	222.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	BOREHOLE CORR DIA. (cnbh*)	USER FIXED		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	222.000	mm	"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	200.025	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
ZDL CH-SMOOTH FILTER	ZCK CH1SM	ON		"	"
	PE SMTH	OFF		"	"
DENSITY MATRIX	Matrix	2.650	g/cm3	"	"
	Matrix (delta)	0.000	g/cm3	"	"
ZDL	ZDL TRACKING	ON		"	"

CURVE DESCRIPTION REPORT

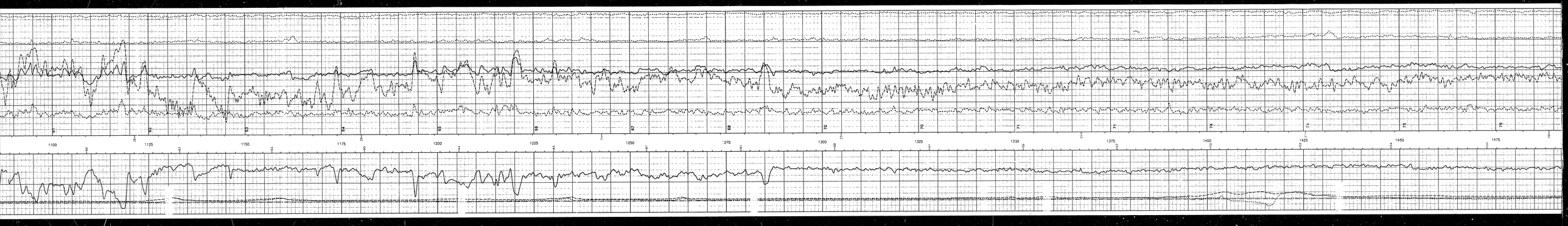
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 28 11:04:19 2002	BIT SIZE
F1:BVOL	BVOL	Jan 28 11:04:20 2002	BOREHOLE VOLUME
F1:CALX	CALX	Jan 28 11:04:23 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 28 11:04:24 2002	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 28 11:04:25 2002	CABLE HEAD TENSION
F1:CNCDL	CNCDL	Jan 28 11:04:29 2002	BH SIZE CORR. DOLOMITE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 28 11:04:35 2002	CEMENT VOLUME
F1:GR	GR	Jan 28 11:05:07 2002	GAMMA RAY
F1:MARK	MRKT	Jan 28 11:05:09 2002	MINUTE MARK
F1:PE	PE	Jan 28 11:08:41 2002	PHOTO ELECTRIC CROSS-SECTION
F1:TEN	TEN	Jan 28 11:10:28 2002	DIFFERENTIAL TENSION
F1:WTBH		Jan 28 11:29:15 2002	TEMPERATURE OF THE BOREHOLE
F1:ZCOR	ZCOR	Jan 28 11:29:15 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

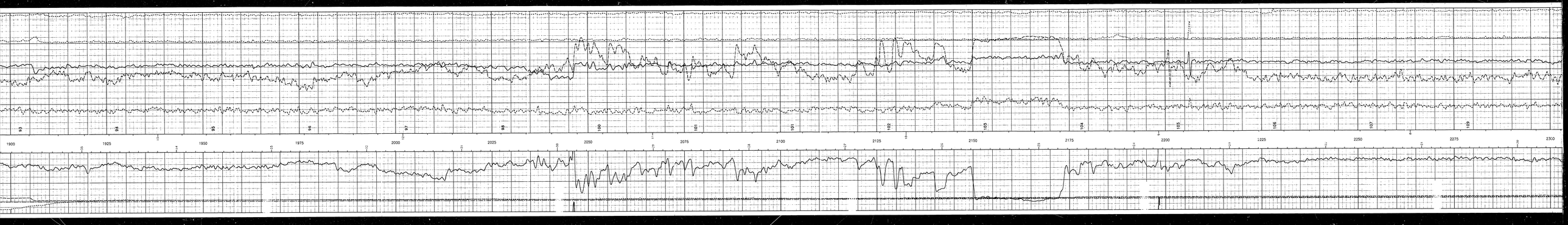
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	PE	21.93	ZCOR	21.93
CALX	21.93	CNCDL	27.28	PORZDL	21.93		
CALY	36.27	GR	30.10	TEN	0.00		

Presentation : /cwl/data/aaa/paramount_j-7S/zdl_dph.pdf [1240 Scale]
Plot Interval : 1000 – 2815.59 Meters

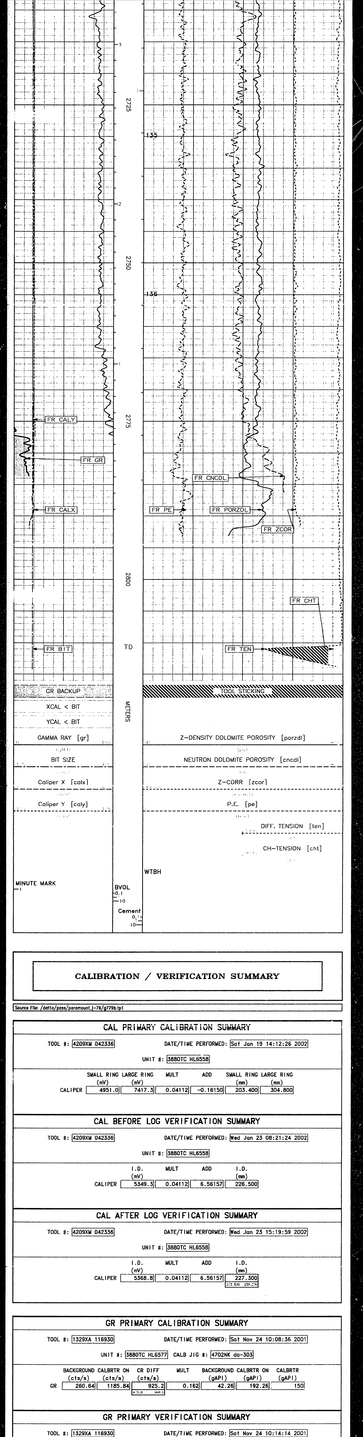
Data File 1 : /ft1/cpc1/data/aaa/paramount_j-7S/g77bbs.ctf
Created On : Jan 28 11:04:13 2002
Surveying Company : SCHLUMBERGER LTD.
Well : PARAGON HAZARD BOVE 2-7S
Field : BOVE
File Interval : 918.078 – 2815.59 Meters
Cut : g77bb


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CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/paramount_1/tl/gr/tls.tpl

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4200XM 042336 — DATE/TIME PERFORMED: Sat Jan 19 14:12:26 2002

UNIT #: 3880TC HL6558

	SMALL RING LARGE RING (uv)	SMALL RING (uv)	MULT	ADD	SMALL RING LARGE RING (mv)	SMALL RING (mv)
CALIPER	4951.0	7417.3	0.04112	-0.16150	203.400	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4200XM 042336 — DATE/TIME PERFORMED: Wed Jan 23 08:21:24 2002

UNIT #: 3880TC HL6558

	I.D. (uv)	MULT	ADD	I.D. (mv)
CALIPER	5349.3	0.04112	6.56157	226.500

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 4200XM 042336 — DATE/TIME PERFORMED: Wed Jan 23 15:19:59 2002

UNIT #: 3880TC HL6558

	I.D. (uv)	MULT	ADD	I.D. (mv)
CALIPER	5368.8	0.04112	6.56157	227.300

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Sat Nov 24 10:08:36 2001

UNIT #: 3880TC HL6577 CALB JIG #: 4702NK do-303

	BACKGROUND CALIBRTN ON (cts/s)	BACKGROUND CALIBRTN ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALIBRTN ON (gAPI)	BACKGROUND CALIBRTN ON (gAPI)	CALIBRTN (gAPI)
GR	260.64	1185.84	925.2	0.162	42.28	192.26	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Sat Nov 24 10:14:14 2001

UNIT #: 3880TC HL6577 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTN ON (cts/s)	BACKGROUND CALIBRTN ON (cts/s)	MULT	BACKGROUND CALIBRTN ON (gAPI)	BACKGROUND CALIBRTN ON (gAPI)	DIFF. (gAPI)
GR	264.04	1190.67	0.162	42.81	193.04	150.23

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Tue Jun 22 22:11:22 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTN ON (cts/s)	BACKGROUND CALIBRTN ON (cts/s)	MULT	BACKGROUND CALIBRTN ON (gAPI)	BACKGROUND CALIBRTN ON (gAPI)	DIFF. (gAPI)
GR	309.80	1244.49	0.162	50.23	201.77	151.54

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 — DATE/TIME PERFORMED: Wed Jan 23 17:10:26 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK do-303

	BACKGROUND CALIBRTN ON (cts/s)	BACKGROUND CALIBRTN ON (cts/s)	MULT	BACKGROUND CALIBRTN ON (gAPI)	BACKGROUND CALIBRTN ON (gAPI)	DIFF. (gAPI)
GR	195.68	1111.87	0.162	31.72	180.26	148.54

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 153089 — DATE/TIME PERFORMED: Fri Jan 11 10:42:51 2002

UNIT #: 3880TC HL6558 CALIBRATOR #: 5437AB 114702 SOURCE #: 4717SS 000565

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	692.61	704.32				
SSN	1779.42	1845.08				
RATIO			2.61968	2.75100	1.05013	
CN						21.358

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 153089 — DATE/TIME PERFORMED: Fri Jan 11 10:50:17 2002

UNIT #: 3880TC HL6558 ICE BLOCK #: 4717ND 00-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1189.23	1224.20				
SSN	1601.39	1654.42				
RATIO			1.35142	1.05013	1.42040	
CN						4.763

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153089 — DATE/TIME PERFORMED: Tue Jun 22 22:01:53 2002

UNIT #: 3880TC HL6558 ICE BLOCK #: 4717ND 00-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1236.98	1274.86				
SSN	1619.80	1674.07				
RATIO			1.31314	1.05013	1.38039	
CN						4.317

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153089 — DATE/TIME PERFORMED: Wed Jan 23 17:07:50 2002

UNIT #: 3880TC HL6558 ICE BLOCK #: 4717ND 00-402

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	1096.88	1135.58				
SSN	1538.24	1587.09				
RATIO			1.40080	1.05013	1.48064	
CN						5.437

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Mon Jan 14 11:34:35 2002

UNIT #: 3880TC HL6558

	SMALL RING LARGE RING (raw)	SMALL RING (raw)	MULT	ADD	SMALL RING LARGE RING (mv)	SMALL RING (mv)
CALIPER	2052.8	2721.2	0.15200	-108.83548	203.200	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Wed Jan 23 08:21:39 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (mv)
CALIPER	2236.2	0.15200	-113.71716	226.500

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 — DATE/TIME PERFORMED: Wed Jan 23 15:20:07 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (mv)
CALIPER	2193.7	0.15200	-113.71716	219.736

ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Mon Jan 07 13:45:07 2002

UNIT #: 3880TC HL6558 CALB. BLOCK SET: 2225XA 150415 CS SOURCE #: 4703NT 000709

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG BLOCK (LO PE)	11408.2	4529.0	5485.1	0.700 (0.635 0.725)	1687.000	7.000	2.293
AL BLOCK	5754.6	465.3	595.3		2686.000	-13.000	
AL+SHIM (CORR)	8016.9	799.5	1004.4		2601.000	166.000	
MG+SHIM (HI PE)		2154.7	2763.6	0.285 (0.260 0.310)			10.580
RATIO MG/AL	1.98 (1.97 2.02)	9.73 (9.71 10.40)	9.21 (8.75 9.75)				

BACKGROUND (cts/s)	CS PEAK CHANNEL #	AM PEAK CHANNEL #
1140.7	229.5 (225.0 235.0)	24.0 (21.0 25.0)

ZDL PRIMARY VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Mon Jan 07 13:55:35 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9058.2	2056.4	4925.6	0.186	1753.908	-103.537	15.798

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Tue Jan 22 22:05:45 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	8503.3	2052.6	4913.6	0.186 (0.166 0.206)	1695.677 (1728.908 1728.908)	-162.812 (128.557 128.557)	15.775

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 166517 DATE/TIME PERFORMED: Wed Jan 23 17:05:16 2002

UNIT #: 3880TC HL6558 VERI. JIG #: 4704NA V-1010

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9214.7	2057.7	4940.7	0.185 (0.166 0.206)	1768.451 (1670.677 1720.677)	-87.945 (-187.812 -137.812)	15.827

BAKER HUGHES

Baker Atlas

COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ANADARKO BOVIE J-76
FIELD BOVIE
PROVINCE NWT

FILE NO:

API NO:

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 22-JAN-2002

BAKER HUGHES

N.E.B. COPY

COMPENSATED Z-DENSILOG SM
COMPENSATED NEUTRON LOG
GAMMA RAY LOG
CALIPER LOG

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT
Ver. 3.01	LOCATION:	OTHER SERVICES
	LIC: 1931	HDI-HDPCAL
		MAC-DR-KY
	LSD: 30C-J-76-6020-12245-00	K-DR-CAL
		STAR
		DVL

			ELEVATIONS:	
PERMANENT DATUM	G.L.	ELEVATION 412.0 M		
LOG MEASURED FROM	K.B.	5.3 M ABOVE P.D.	KB	417.3 M
DRILL MEAS. FROM	KELLY BUSHING		DF	
			GL	412.0 M

DATE		06-Feb-2002	
RUN	TRIP	3	1
SERVICE ORDER		201455	
DEPTH DRILLER		3350.0 M	
DEPTH LOGGER		3353.5 M	
2ND TOP LOGGED INTERVAL		3352.5 M	
TOP LOGGED INTERVAL		2808.0 M	
CASING DRILLER		177.8 MM @2808.0 M	●
CASING LOGGER		2808.8 M	
BIT SIZE		152.0 MM	
TYPE OF FLUID IN HOLE		CELCHEM	
DENSITY	VISCOSITY	1.170 G/CC 80.0 S	
PH	FLUID LOSS	10.0 6.0 C3	
SOURCE OF SAMPLE		FLOWLINE	
RM AT MEAS. TEMP.		2.56 OHM @21.25 DEGC	●
RMF AT MEAS. TEMP.		2.47 OHM @20.52 DEGC	●
RMC AT MEAS. TEMP.		2.63 OHM @20.46 DEGC	●
SOURCE OF RMF	RMC	MEASURED MEASURED	
RM AT BHT		0.6 OHM @155.0 DEGC	●
TIME SINCE CIRC.		20.0 HOURS	
MAX. RECORDED TEMP.		155.0 DEGC	
LOGGING UNIT NO.		NL 5556 GR. MACKIE	
RECORDED BY		A.SMILEY, K.VICKERY	
WITNESSED BY		D. TAYLOR	

IT IS WARRANTED INTERPRETATIONS OF LOGS FOR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND CANNOT, AND DO NOT, MEASURE DIRECTLY THE EXISTENCE OR PRODUCIBILITY OF OIL, GAS OR OTHER MINERALS OR FORMATIONS, WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES OR EXPENSE INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

Run 3 TRIP 1: TIE COMPED CIRCULATION: 60-120-30-2 / 2810 HOURS

ZDL-CN-HDPCAL RECORDED IN COMBINATION:

PDEF AND DRE RECORDED AND PRESENTED IN LIMESTONE MATRIX: ED = SC.
PDEF AND DRE RECORDED AND PRESENTED IN SANDSTONE MATRIX: ED = SC.
PDEF AND DRC PLAYBACK IN SANDSTONE MATRIX: ED = SC.

HIGH RESOLUTION MAIN PRESENTED IN LIMESTONE MATRIX 3150 - 3035, 2940 - 2880.
CN-DL RECORDED IN SANDSTONE MATRIX.
CN-DL PASS #1 WAS NOT USED TO GENERATE THE DENSITY (ZDL) TO THE SHORT AXIS OR THE CALIPER.

ZDL CALIPER CALCULATED FROM AVERAGE OF X-AXIS(ZDX).
AMS = AVERAGE MUDCAKE THICKNESS.
AMS = (BIT SIZE - ZDX) / 2.
MEDIUM (TOOL) = 1.0 CUBIC METER(S).
HEAVY (TOOL) = 1.0 CUBIC METER(S).
ZDL PRESENTED ON LITHOLOGY SCALE.
CN-DL PRESENTED ON LITHOLOGY SCALE.

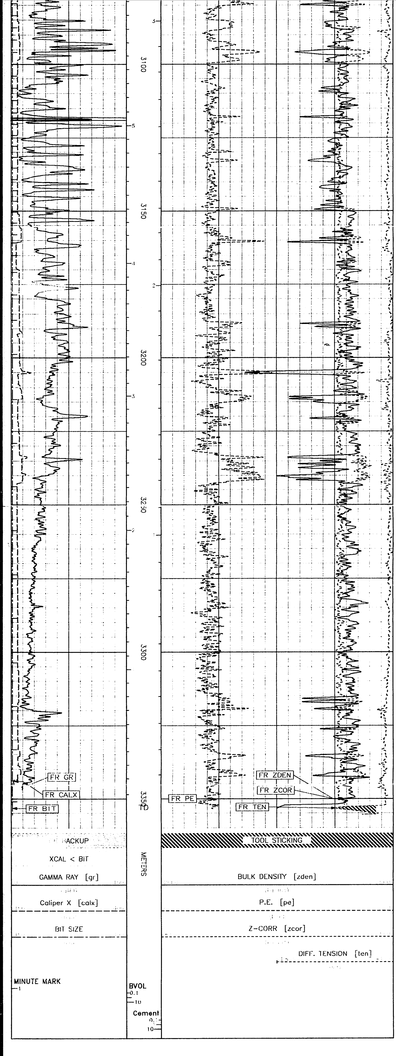
100 JACKS OF BARRITE ADDED TO HOLE.

CREW: E. BARRETT, J. SOMMER

RIG: SCHRAM #4E

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
		HDI	1300A	1300A	
		MAC	1300A	1300A	
		DVL	2308A/2309A	2308A/2309A	

| | | |



MAIN PASS - LIMESTONE MATRIX

May 21, 2001
Updates: 1,2

Fileview 3.20
Petph /main/53

Cplot 5.10
Pdf.Cpp /main/16

Thu Feb 7 08:08:57 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/para_1-76/p7772_v01.prm
LOGGING MODE: DEPTH DIRECTIONS: UP
TOP (DEPTH): 3175.881 m BOTTOM (DEPTH): 3356.934 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER ()	light (2)		..	..
	FILTER (.5)	light (2)		..	..
	FILTER ()	light (2)		..	..
GR	FILTER ()	medium (1)		..	..
CN	FILTER ()	medium (1)		..	..
ZDL	FILTER ()	medium (1)		..	..
SPEED	FILTER ()	medium (1)		..	..
TENSION	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	6.000	mm	TOP	BOTTOM
	CASING O.D.	114.300	mm	..	..
BIT SIZE	BIT SIZE	152.400	mm	..	..
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	152.400	mm	..	..

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		..	..
	BIT SIZE BEHIND CSNG	200.025	mm	..	..

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
[illegible] FILTER	DEN CHISW ()	On		TOP	BOTTOM
	PE CHISW ()	OFF		..	..
DENSITY POROSITY	MATRIX	1.000	g/cm3	..	..
	MATRIX (lime)	2.710	g/cm3	..	..
ZDL	ZDL TRACKING	ON		..	..

CURVE DESCRIPTION REPORT

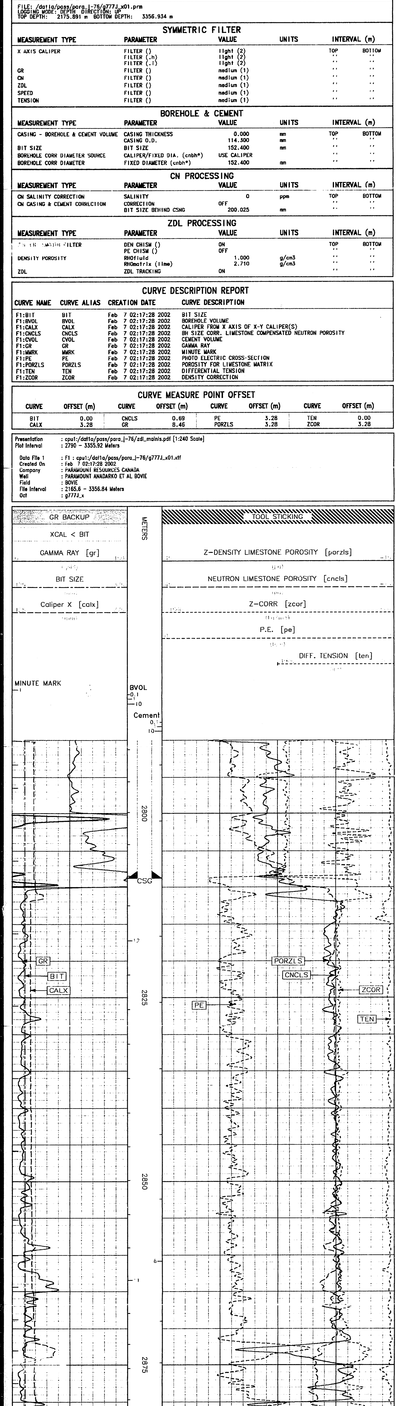
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 02:17:28 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 02:17:28 2002	BOREHOLE VOLUME
F1:CALX	CALX	Feb 7 02:17:28 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CNCLS	CNCLS	Feb 7 02:17:28 2002	BH SIZE CORR. LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Feb 7 02:17:28 2002	CEMENT VOLUME
F1:GR	GR	Feb 7 02:17:28 2002	GAMMA RAY
F1:MRK	MARK	Feb 7 02:17:28 2002	MINUTE MARK
F1:PE	PE	Feb 7 02:17:28 2002	MINERAL ELECTRIC CROSS-SECTION
F1:PORZLS	PORZLS	Feb 7 02:17:28 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Feb 7 02:17:28 2002	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Feb 7 02:17:28 2002	DENSITY CORRECTION

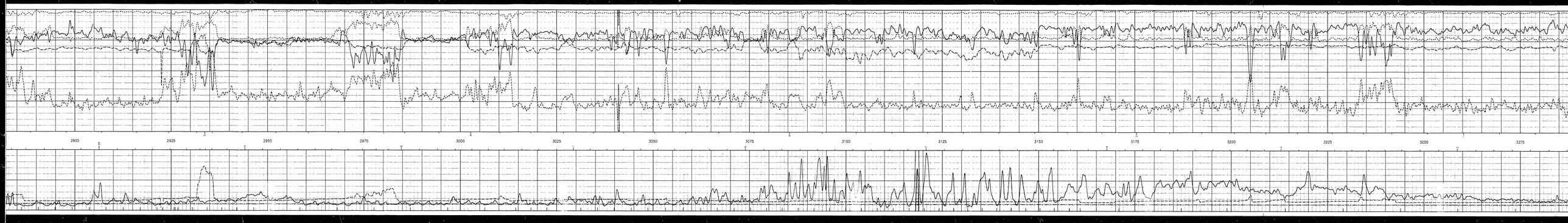
CURVE MEASURE POINT OFFSET

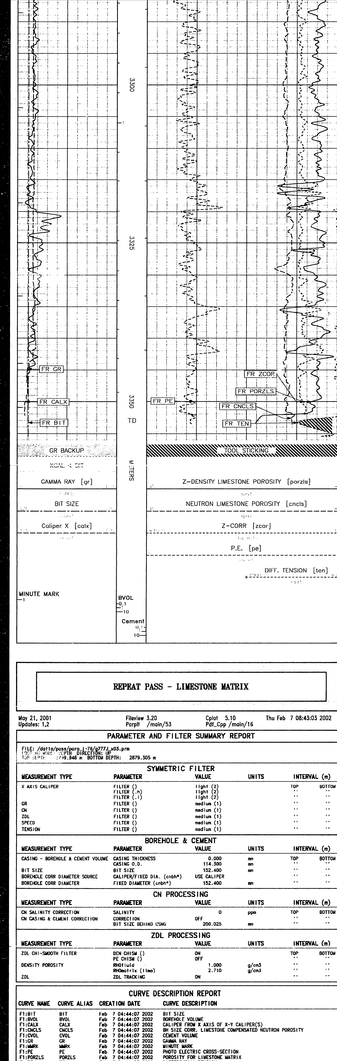
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	0.69	PE	3.28	TEN	0.00
CALX	3.28	GR	8.46	PORZLS	3.28	ZCOR	3.28

Presentation : cpol:/data/pass/para_2-76/cdl_mains.pdf [1:240 Scale]
Plot Interval : 2790 - 3355.92 Meters

Data File 1 : f1 : cpol:/data/pass/para_2-76/g7772_v01.dlis
Created On : Feb 7 02:17:28 2002
Company : PARAMOUNT ENERGY CANADA
Well : PARAMOUNT HADDAD ET AL BOVIE
Field : BOVIE
File Interval : 2185.8 - 3356.84 Meters
: g7772_v




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REPEAT PASS - LIMESTONE MATRIX

May 21, 2001 — Flatview 3.20 — Cplot 5.10 — Thu Feb 7 08:43:03 2002
Updates: 1,2 — Purpit /main/53 — Pdt_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pore/pore_1/76/d7772_s05.prn
LOGGING SPEED (FPM): 1200.000 — BOTTOM DEPTH: 2879.505 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
X AXIS CALIPER	FILTER (*)	light (2)		"	"
	FILTER (.*)	light (2)		"	"
	FILTER (_*)	light (2)		"	"
GR	FILTER ( )	medium (1)		"	"
CN	FILTER ( )	medium (1)		"	"
ZDL	FILTER ( )	medium (1)		"	"
SPECD	FILTER ( )	medium (1)		"	"
TENSION	FILTER ( )	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	"	"
	CASING O.D.	114.300	mm	"	"
BIT SIZE	BIT SIZE	152.400	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cmbh*)	152.400	mm	"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BOREHO CSNG	200.025	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
ZDL CNI-SMOOTH FILTER	BCK CNTSM ()	ON		"	"
	PE CNTSM ()	OFF		"	"
DENSITY POROSITY	MATrix4	2.709	g/cm3	"	"
	RHOmatrix (lime)	2.710	g/cm3	"	"
ZDL	ZDL TRACKING	ON		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 04:44:07 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 04:44:07 2002	BOREHOLE VOLUME
F1:CALX	CALX	Feb 7 04:44:07 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CNCLS	CNCLS	Feb 7 04:44:07 2002	COMPENSATED LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Feb 7 04:44:07 2002	CEMENT VOLUME
F1:GR	GR	Feb 7 04:44:07 2002	GAMMA RAY
F1:HAMR	HAMR	Feb 7 04:44:07 2002	HIRATE MARK
F1:PE	PE	Feb 7 04:44:07 2002	PHOTO ELECTRIC CROSS-SECTION
F1:PORZLS	PORZLS	Feb 7 04:44:07 2002	POROSITY FROM LIMESTONE MATRIX
F1:TEN	TEN	Feb 7 04:44:07 2002	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Feb 7 04:44:07 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLS	3.28	PE	3.28	TEN	0.00
CALX	3.28	GR	9.46	PORZLS	3.28	ZCOR	3.28

Presentation: c:cpc\/data/pore/pore_1/76/d7772_s05.ppdf [1:240 Scale]
Plot Interval: 2787.82 - 2877.82 Meters

Data File 1: f1 : cpc\/data/pore/pore_1/76/d7772_s05.slf
Created On: lab / 04:44:07 2002
Company: PARAMOUNT RESOURCES CANADA
Well: PARAMOUNT ANADARKO ET AL DOME
Field: BOYD
File Interval: 2785.75 - 2879.22 Meters
: gr77x.x

MAIN PASS - SANDSTONE PLAYBACK

May 21, 2001 — Flatview 3.20 — Cplot 5.10 — Thu Feb 7 08:48:30 2002
Updates: 1,2 — Purpit /main/53 — Pdt_Cpp /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pore/pore_1/76/d7772_s01.prn
LOGGING SPEED (FPM): 1200.000 — BOTTOM DEPTH: 3358.934 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
X AXIS CALIPER	FILTER (*)	light (2)		"	"
	FILTER (.*)	light (2)		"	"
	FILTER (_*)	light (2)		"	"
GR	FILTER ( )	medium (1)		"	"
CN	FILTER ( )	medium (1)		"	"
ZDL	FILTER ( )	medium (1)		"	"
SPECD	FILTER ( )	medium (1)		"	"
TENSION	FILTER ( )	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	"	"
	CASING O.D.	114.300	mm	"	"
BIT SIZE	BIT SIZE	311.150	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cmbh*)	152.400	mm	"	"

CN PROCESSING

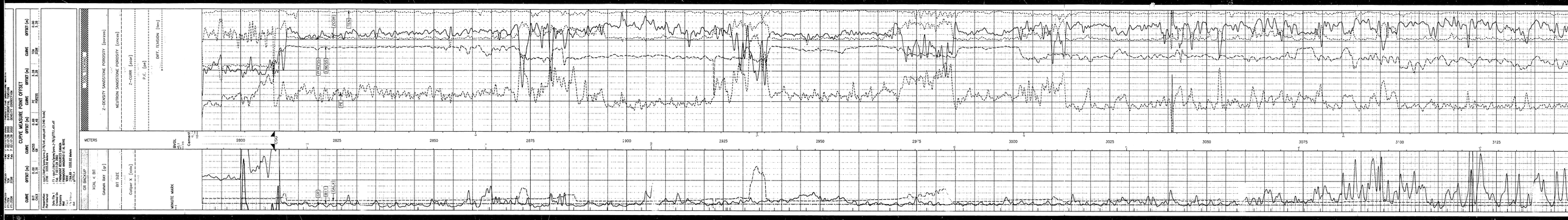
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BOREHO CSNG	200.025	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
				TOP	BOTTOM
ZDL CNI-SMOOTH FILTER	BCK CNTSM ()	ON		"	"
	PE CNTSM ()	OFF		"	"
DENSITY POROSITY	MATrix4	1.000	g/cm3	"	"
	RHOmatrix (sand)	2.650	g/cm3	"	"
ZDL	ZDL TRACKING	ON		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 02:17:28 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 02:17:28 2002	BOREHOLE VOLUME
F1:CALX	CALX	Feb 7 02:17:28 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CNCDS	CNCDS	Feb 7 02:17:28 2002	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Feb 7 02:17:28 2002	CEMENT VOLUME
F1:GR	GR	Feb 7 02:17:28 2002	GAMMA RAY
F1:HAMR	HAMR	Feb 7 02:17:28 2002	MINUTE MARK
F1:PE	PE	Feb 7 02:17:28 2002	PHOTO ELECTRIC CROSS-SECTION


CURVE MEASURE POINT OFFSET
CURVE OFFSET (m) CURVE OFFSET (m) CURVE OFFSET (m) CURVE OFFSET (m)
CALI 1.09 GR 0.46 PEF2SS 1.28 ZDEN 1.09
Parameter Data File 3 Mud Salinity Mud Resistivity Mud Density Fluid Level
CASING 1 CASING 2 CASING 3
Z-DENSITY SANDSTONE POROSITY [pu/cus]
NEUTRON SANDSTONE POROSITY [cm/cm]
Z-CORR [cc/cc]
P.E. [ae]
DIFF. TENSION [lbs]
GR BACKUP
CALI + BIT
GAMMA RAY [gr]
BIT SIZE
Caliper X [cms]
MINUTE MARK
METERS
BVOL
Cement
2800
2825
2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125

May 21, 2001
Version 1.2

Marker 3.10
Depth Shift=0.0ft

Run 1 at 10.0ft/min
Log: 3350.0ft to 3150.0ft

Thu Feb 7 08:46:08 2002

PARAMETER AND FILTER SUMMARY REPORT

X AXIS GAUGE	PARAMETER	SYMMETRIC FILTER	UNITS	INTERVAL (ft)
GR	FILTER (1)	light (1)	ft/hr	: : :
CAL	FILTER (2)	light (2)	ft/hr	: : :
TEN	FILTER (3)	medium (1)	ft/hr	: : :
TENSION	FILTER (4)	medium (2)	ft/hr	: : :
	FILTER (5)	medium (3)	ft/hr	: : :
	FILTER (6)	medium (4)	ft/hr	: : :

CASING - BOREHOLE & CEMENT VOLUME	PARAMETER	BOREHOLE & CEMENT	UNITS	INTERVAL (ft)
CASING THICKNESS	CSTHK		0.000	TOP BOTTOM
BIT SIZE	BS		7.875	: :
BOREHOLE CORR DIAMETER (DIA. (cnss*)	DCNSS		132.480	: :
FIXED DIAMETER (cnss*)	FDCNSS		132.480	US_VERT_FEET
BOREHOLE CORR DIAMETER	DCNSS		132.480	: :

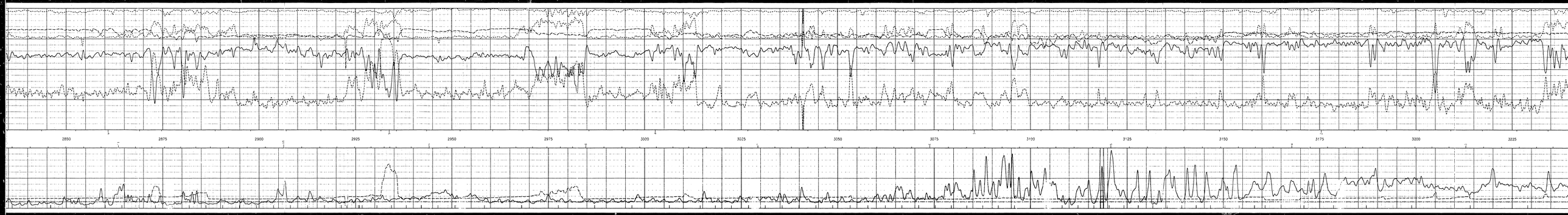
CN CALLIPER CORRECTION	PARAMETER	CN PROCESSING	UNITS	INTERVAL (ft)
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP BOTTOM
CN DATA'S BOREHOLE CORRECTION	BIT SIZE BEHIND CSNG	200.025	mm	: :

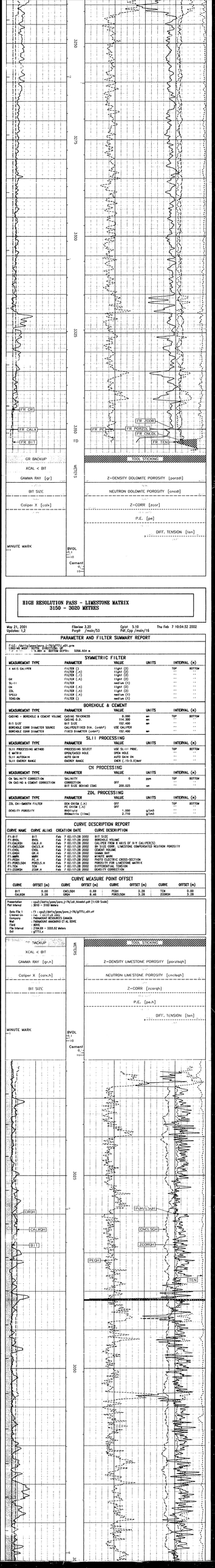
ZDL CH-SMOOTH FILTER	PARAMETER	ZDL PROCESSING	UNITS	INTERVAL (ft)
ZDL CH-SMOOTH FILTER	BOX CSTM (*)	OFF		TOP BOTTOM
ZDL	BOX CSTM (*)	OFF		: :
	MEDIAN (pass)	2.000	g/cm3	: :
	ZDL TOOL NO.	2M	g/cm3	: :

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION REPORT
FT1301	BIT	Feb 7 02:13:28 2002	BIT SIZE
FT1302	CAL1	Feb 7 02:13:28 2002	CALIPER FROM 1 AXIS OF X-Y CALIPER
FT1303	CALX	Feb 7 02:13:28 2002	CALIPER FROM 2 AXIS OF X-Y CALIPER
FT1304	CNSS	Feb 7 02:13:28 2002	NEUTRON SANDSTONE POROSITY
FT1305	CNDL	Feb 7 02:13:28 2002	CDAM LIMESTONE
FT1306	ZCOR	Feb 7 02:13:28 2002	Z-CORRECTION
FT1307	PE	Feb 7 02:13:28 2002	PHOTO ELECTRIC CROSS-SECTION
FT1308	ZDSS	Feb 7 02:13:28 2002	Z-DENSITY SANDSTONE POROSITY
FT1309	ZCOR	Feb 7 02:13:28 2002	DENSITY CORRECTION

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT (CAL)	0.00	CNDL	0.00	TEN	0.00
CR	0.00	PE	0.00	ZCOR	0.00

Tool String: 1 ZDL-CN-GR-TEN-CAL-Bridle-Cable (1160-3340)
Rig Name: 2ONE - 3335.0ft Above
Run No.: 1 at 10.0ft/min
Depth Ref.: 1 at 0.0ft from Elevation=2.0ft,KB=11.4ft
Log Depth: Driller's Depth
Max Temp: 0.0degC
Bit Size: 7.875in
Fluid Type: FRESHWATER MUD
Density: 0.0lbm/gal
Viscosity: 0.0s/qt
PH: 0.0
Fluid Loss: 0.0cc
Source: 0.0ppm Chlorides
Rm @ Meas. Temp: 0.0ohm-m @ 0.0degF
Rmf @ Meas. Temp: 0.0ohm-m @ 0.0degF
Rmc @ Meas. Temp: 0.0ohm-m @ 0.0degF
Source Rmf: Rmc:
Rm @ BHT: 0.0ohm-m @ 0.0degF
Time Circulation Stopped: 0:00
Time Logger on Bottom: 0:00
Equipment: 2ONE
Location: 0
Recorded By: 0
Witnessed By: 0


2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150
3175
3200
3225



HIGH RESOLUTION PASS - LIMESTONE MATRIX
3150 - 3020 METRES

May 21, 2001 — Filename 3_20 — Cplot 5.10 — Thu Feb 7 10:04:32 2002
Updates: 1,2 — Font /main/53 — Plot Copy /main/16

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pascore/prm_2.2W/pf77_s01.prm
LOGGED MD: 3350.0 BASE OF BIT RUN DEPTH: 3350.0 ft
FILTER = BOTTOM DEPTH: 3356.934 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
4 ARM CALIPER	FILTER (.)	light (2)		"	"
	FILTER (.n)	light (2)		"	"
	FILTER (.1)	light (2)		"	"
GR	FILTER (.n)	light (2)		"	"
SL-11	FILTER	medium (1)		"	"
CN	FILTER (.n)	light (2)		"	"
ZDL	FILTER (.n)	light (2)		"	"
DPHI	FILTER (.n)	medium (1)		"	"
TENSION	FILTER (.)	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	TOP	BOTTOM
	BIT SIZE	114.300	mm	"	"
BIT SIZE	BIT SIZE	152.400	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbs*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cmbs*)	152.400	mm	"	"

SL11 PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
SL11 PROCESSING METHOD	PROCESSING SELECT	USE SL-11 PROC.		TOP	BOTTOM
C WATER	OPEN/CASED HOLE	OPEN HOLE		"	"
SL11 AUTOGAIN	AUTO GAIN	AUTO GAIN ON		"	"
SL11 ENERGY RANGE	ENERGY RANGE	CHEK (.15-3.0)MeV		"	"

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CN SALINITY CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	200.025	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CHI-SMOOTH FILTER	DEN CHISM (.n)	OFF		TOP	BOTTOM
	PE CHISM (.n)	OFF		"	"
DENSITY POROSITY	MATRIX(ft)	1.000	g/cm3	"	"
	MATRIX(m) (1ms)	2.710	g/cm3	"	"

CURVE DESCRIPTION REPORT

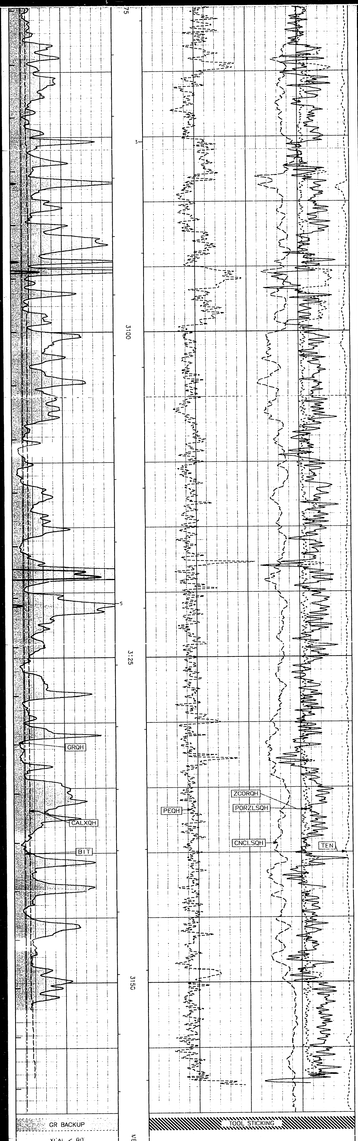
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 02:17:28 2002	BIT SIZE
F1:CALX	CALX	Feb 7 02:17:28 2002	CALIPER CAVITY VOLUME
F1:CALXQH	CALX_H	Feb 7 02:17:28 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CNCLSQH	CNCLS_H	Feb 7 02:17:28 2002	BH SIZE CORR, LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Feb 7 02:17:28 2002	CEMENT VOLUME
F1:GRQH	GR_H	Feb 7 02:17:28 2002	GAMMA RAY
F1:PEFQH	PEF_H	Feb 7 02:17:28 2002	PHOTO ELECTRIC CURVE
F1:PEQH	PE_H	Feb 7 02:17:28 2002	PHOTO ELECTRIC CROSS-SECTION
F1:PORZLSQH	PORZLS_H	Feb 7 02:17:28 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Feb 7 02:17:28 2002	DIFFERENTIAL TENSION
F1:ZCORQH	ZCOR_H	Feb 7 02:17:28 2002	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLSQH	0.99	PEQH	3.28	TEN	0.00
CALXQH	3.28	GRQH	8.46	PORZLSQH	3.28	ZCORQH	3.28

Presentation : cpu2:/data/pascore_2.2W/all_blankl.pdf [1:120 Scale]
Plot Interval : 3010 - 3180 Meters

Data File 1 : cpu2:/data/pascore_2.2W/pf77_s01.prm
Created On : Tue 7 02:17:28 2002
Company : PARAMOUNT RESOURCES CANADA
Well : PARAMOUNT ANADARKO CT AL ROVE
Field : ROVE
Zlg Interval : 3164.08 - 3355.92 Meters
Gst : pf77.r



HIGH RESOLUTION PASS - LIMESTONE MATRIX
2940 - 2860 METERS

May 21, 2001 Updates: 1,2

Fileview 3.20 Forgit /main/53

Cplot 5.10 Plot_Cpy /main/16

Thu Feb 7 10:06:53 2002

/pore_1-76/gf77_e01.pre
Logging Unit: 2753.801 m Driller's DEPTH: 3356.934 m

PARAMETER AND FILTER SUMMARY REPORT

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
X AXIS CALIPER	FILTER ( )	light (2)		..	..
	FILTER (.h)	light (2)		..	..
	FILTER (.i)	light (2)		..	..
GR	FILTER (.h)	light (2)		..	..
SL-II	FILTER	medium (1)		..	..
CN	FILTER (.h)	light (2)		..	..
ZDL	FILTER (.h)	light (2)		..	..
SPEED	FILTER (.h)	medium (1)		..	..
TENSION	FILTER ( )	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING THICKNESS	0.000	mm	..	..
	CASING O.D.	114.300	mm	..	..
BIT SIZE	BIT SIZE	152.400	mm	..	..
BOREHOLE COMP DIAMETER SOURCE	CALIPER/FIXED DIA. (cmbs*)	USE CALIPER		..	..
BOREHOLE COMP DIAMETER	FIXED DIAMETER (cmbs*)	152.400	mm	..	..

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
SLII PROCESSING METHOD	PROCESSING SELECT	USE SL-II PROC.		..	..
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		..	..
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		..	..
SLII ENERGY RANGE	ENERGY RANGE	EMER (10-3.3/mev)		..	..

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
SALINITY CORRECTION	SALINITY	0	ppm	..	..
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		..	..
	BIT SIZE BEHIND CSNG	200.025	mm	..	..

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
ZDL CAV-SMOOTH FILTER	GDK CH/CM (.h)	OFF		..	..
	PE CH/CM (.h)	OFF		..	..
DENSITY POROSITY	Matrix	1.000	g/cm3	..	..
	Rhoma=fix (lime)	2.710	g/cm3	..	..

CURVE DESCRIPTION REPORT

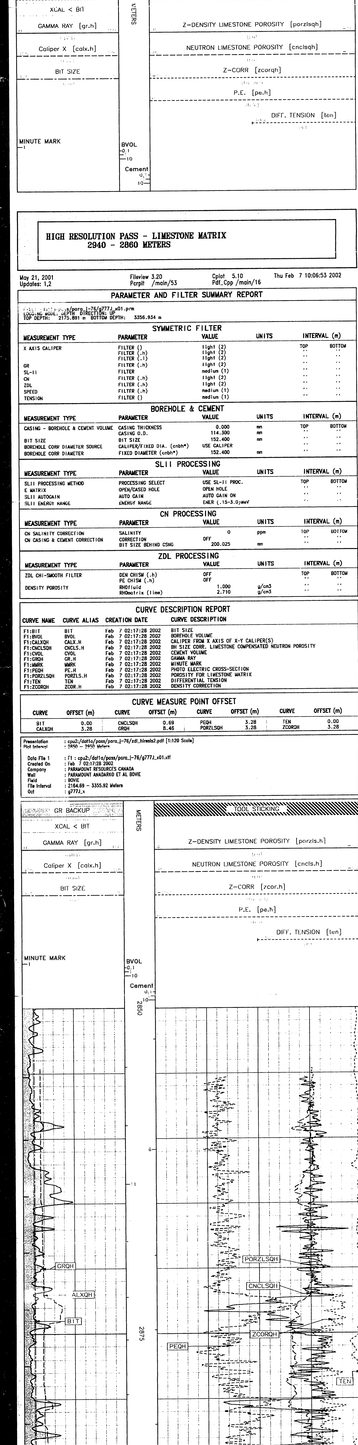
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 02:17:28 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 02:17:28 2002	BOREHOLE VOLUME
F1:CALXQH	CALX_H	Feb 7 02:17:28 2002	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CNCLSQH	CNCLS_H	Feb 7 02:17:28 2002	CALCULATED LIMESTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CEMVOL	Feb 7 02:17:28 2002	CEMENT VOLUME
F1:GRQH	GR_H	Feb 7 02:17:28 2002	GAMMA RAY
F1:MMRK	MMRK	Feb 7 02:17:28 2002	MINUTE MARK
F1:PEQH	PE_H	Feb 7 02:17:28 2002	PHOTOELECTRIC CROSS-SECTION
F1:PORZLSQH	PORZLS_H	Feb 7 02:17:28 2002	POROSITY FOR LIMESTONE MATRIX
F1:TEN	TEN	Feb 7 02:17:28 2002	DIFFERENTIAL TENSION
F1:ZCORQH	ZCOR_H	Feb 7 02:17:28 2002	DENSITY CORRECTION

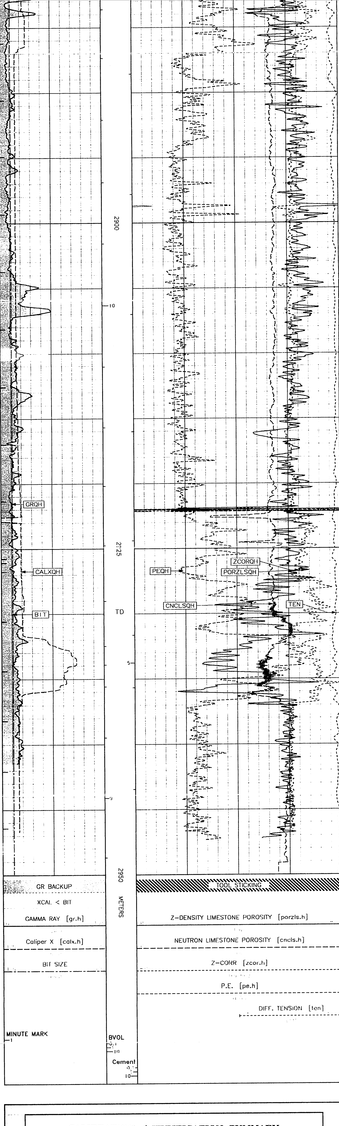
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CNCLSQH	0.69	PEQH	3.28	TEN	0.00
CALXQH	3.28	GRQH	0.46	PORZLSQH	3.28	ZCORQH	3.28

Presentation : /usr2/data/pore/pore_2-76/gf77_e01.hlwebcal.pdf [1:120 Scale]
Plot Source : SHQI - 7900 Matrix

Data File 1 : /usr2/data/pore/pore_2-76/gf77_e01.dlis
Created On : Feb 7 02:17:28 2002
Company : PARAMOUNT RESOURCES CANADA
Well : PARAMOUNT ANADARKO ET AL BOWIE
Field : WILDCAT
File Interval : 2784.48 - 3355.82 Meters
Out : gf77_e





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/pass_1-76/g777.x1p1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 188309 — DATE/TIME PERFORMED: Thu Feb 07 01:04:11 2002

UNIT #: 3880TC HL6558 — CALB JIG #: 4702NK DA-303

	BACKGROUND CALIBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	CALIBRTR ON (gAPI)	CALIBTR (gAPI)
GR	242.99	1160.82	0.163	39.70	189.70	150
		917.9				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 188309 — DATE/TIME PERFORMED: Thu Feb 07 01:05:53 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND CALIBRTR ON (cts/s)	BACKGROUND CALIBRTR ON (cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	BACKGROUND CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	265.09	1142.90	0.163	43.32	186.78	143.46

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 188309 — DATE/TIME PERFORMED: Thu Feb 07 01:09:25 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND CALIBRTR ON (cts/s)	BACKGROUND CALIBRTR ON (cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	BACKGROUND CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	269.09	1150.13	0.163	43.90	187.90	144.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 188309 — DATE/TIME PERFORMED: Thu Feb 07 07:50:14 2002

UNIT #: 3880TC HL6558 — VERI JIG #: 4702NK DA-303

	BACKGROUND CALIBRTR ON (cts/s)	BACKGROUND CALIBRTR ON (cts/s)	MULT	BACKGROUND CALIBRTR ON (gAPI)	BACKGROUND CALIBRTR ON (gAPI)	DIFF. (gAPI)
GR	330.00	1254.90	0.163	54.75	201.78	147.03

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Wed Jan 02 09:32:58 2002

UNIT #: 3880TC HL6544

	SMALL RING LARGE RING (raw)	SMALL RING LARGE RING (raw)	MULT	ADD	SMALL RING LARGE RING (in)	SMALL RING LARGE RING (in)
CALIPER	1755.8	2377.4	0.16345	-83.78410	203.200	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Thu Feb 07 01:44:27 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	1460.1	0.16345	-80.23285	159.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Thu Feb 07 04:52:22 2002

UNIT #: 3880TC HL6558

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	1538.0	0.16345	-80.23285	171.152

ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Wed Jan 02 09:22:00 2002

UNIT #: 3880TC HL6544 — CALB. BLOCK SET: 2225XA 150415 — CS SOURCE #: 4702NT 000795

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG BLOCK (LO PE)	10139.2	4192.6	4974.0	0.724	1687.000	7.000	2.293
				0.724			
AL BLOCK	5014.6	411.1	524.0		2686.000	-13.000	
AL+SHIM (CORR)	6963.5	713.6	878.1		2901.000	166.000	
MG+SHIM (HI PE)		2011.9	2539.7	0.297			10.560
				0.297			
RATIO MG/AL	2.02	10.20	9.49				
	2.02	10.20	9.49				

	BACKGROUND (cts/s)	CS PEAK CHANNEL #	AM PEAK CHANNEL #
	1222.1	230.8	23.7
		230.8	23.7

ZDL PRIMARY VERIFICATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Mon Jan 28 13:41:00 2002

UNIT #: 3880TC HL6544 — VERI. JIG #: 4704NA 119127

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9016.2	2985.5	4955.7	0.187	1790.130	-21.561	16.159

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Thu Feb 07 01:15:05 2002

UNIT #: 3880TC HL6558 — VERI. JIG #: 4704NA 119127

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	8890.6	2933.8	4847.2	0.186	1791.928	-28.770	16.171
				0.187			

ZDL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 184335 — DATE/TIME PERFORMED: Thu Feb 07 07:45:55 2002

UNIT #: 3880TC HL6558 — VERI. JIG #: 4704NA 119127

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
FIELD BLOCK	9109.4	2972.5	4946.2	0.190	1799.873	-11.850	15.971
				0.190			

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2446XA 153096 — DATE/TIME PERFORMED: Mon Jan 28 14:40:25 2002

UNIT #: 3880TC HL6544 — CALIBRATOR #: 2437XB 114720 — SOURCE #: 4717XS 038365

	MEASURED DEADTM CPS	DTC CPS	SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	616.79	626.06				
SSN	1566.56	1617.23				
RATIO			2.5831	2.75100	1.06497	
CN						21.356

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2446XA 153096 — DATE/TIME PERFORMED: Mon Jan 28 14:55:13 2002

UNIT #: 3880TC HL6544 — ICE BLOCK #: 4717NG 00-091

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	835.41	852.52				
SSN	1612.40	1666.16				
RATIO			1.95440	1.06497	2.08343	
CN						12.504

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153096 DATE/TIME PERFORMED: Thu Feb 07 01:26:03 2002

UNIT #: 3880TC HL6558 ICE BLOCK #: 4717ND OD-091

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	867.59	886.09				
SSN	1592.43	1644.95				
RATIO			1.83643	1.06497	1.98343	
CN						11.303

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2446XA 153096 DATE/TIME PERFORMED: Thu Feb 07 07:34:24 2002

UNIT #: 3880TC HL6558 ICE BLOCK #: 4717ND OD-091

	MEASURED CPS	DEADTM CORR CPS	DTC SSN/LSN	CORRECTION FACTOR	DTC CORR SSN/LSN	POROSITY (pu)
LSN	867.81	886.48				
SSN	1607.70	1661.17				
RATIO			1.87390	1.06497	2.02165	
CN						11.814

BAKER HUGHES

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COMPANY	PARAMOUNT RESOURCES LTD.	FILE NO:
WELL	PARAMOUNT ANADARKO BOVIE J-76	
FIELD	BOVIE	API NO:
PROVINCE	NWT	

LOCATION:	ELEVATIONS:
LIC: 1931	KB 417.3 M
LSD: 300-J-76-6020-12 45-00	DF
	GL 412.0 M
	DATE 06-Feb-2002

DIPMETER/ CALIPER

N.E.B. COPY

CEMENT VOLUME LOG FOR 311 MM BOREHOLE AND 244.5 MM CASING

BAKER HUGHES

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
API NO:	WELL	PARAMOUNT ANADARKO BOVIE J-76
	FIELD	BOVIE
Ver. 3.01	PROVINCE	NWT
	LOCATION: Lat: 167/ Lon: UM1: 300-J-76-0220-12245-00	OTHER SERVICES: BHC-GR-CN-DIL, HDIL-GR-DOL

PERMANENT DATUM	S.L.	ELEVATION 412.0 M	KB	417.0 M
LOG MEASURED FROM	K.B. 5.0 M	ABOVE P.D.	DF	
DRILL MEAS. FROM	KELLY BUSHING		GL	412.0 M

RUN	TRIP	1		
DATE		9-Jan-2002		
SERVICE ORDER		21,599		
DEPTH DRILLER		1,027.0 M		
DEPTH LOGGER		1,025.0 M		
BOTTOM LOGGED INTERVAL		1024.1 M		
TOP LOGGED INTERVAL		511.0 M		
CASING DRILLER		511.0 M @	511.0 M	@
CASING LOGGED		511.0 M		
BIT SIZE		311.0 MM		
TYPE OF FLUID IN HOLE		WATER		
DENSITY / VISCOSITY		0.990 G/C3	N/A	
PH / FLUID LOSS		N/A	N/A	
SOURCE OF SAMPLE				
RM @ MEAS. TEMP.		N/A @	#N/A	@
RMF @ MEAS. TEMP.		N/A @	#N/A	@
RMC @ MEAS. TEMP.		N/A @	#N/A	@
SOURCE OF RMF	RMC	N/A	N/A	
RM AT BHT		N/A @	#N/A @ 0C	
TIME SINCE CIRCULATION		132.0 HOURS		
MAX. RECORDED TEMP.		45.8 DEG.		
EQUIP. NO. LOCATION		CL 0202	CGY - PEACE RIVER	
RECORDED BY		C.L. LONOCK		
WITNESSED BY		C.L. LONOCK		

IN NO WAY SHALL INTERPRETATION OF LOGS AND SERVICES FALL OUTSIDE THE IMPLIED OF THAT IS MADE CONCERNING THE ACCURACY, CORRECTNESS OR RELIABILITY OF ANY INTERPRETATION MADE BY ANY OFFICER, AGENT OR EMPLOYEE OF BAKER ATLAS. IN NO CASE SHALL BAKER ATLAS BE LIABLE FOR ANY LOSS, COST, DAMAGE OR EXPENSE INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OFFICER, AGENT OR EMPLOYEE OF BAKER ATLAS.

REMARKS

RUN / TRIP 1 : TIME STOPPED CIRCULATION: AM, 9, JAN.02

DIL-GR-DOL RECORDED IN COMBINATION.

BHC-GR-CN RECORDED IN COMBINATION WITH THE PRESENCE OF 4 MPa(580PSI).

CALIPER LOG WAS RECORDED WITH THE FOLLOWING ARMS:
ARM 1 - NORTH (0 DEGREES)
ARM 2 - EAST (90 DEGREES)
ARM 3 - SOUTH (180 DEGREES)
ARM 4 - WEST (270 DEGREES)

CREW: E. BARRETT, T. LOCKE

RIG: SWORN #4E

RUN	TRIP	DEPARTURE DATA	MEAS. FM	ARRIVAL ON LOC.	LEFT LOC.	LOGGING UNIT NUMBER
1	1		KB			

CEMENT VOLUME LOG FOR 244.5 MM CASING

Run 1, 2001
Version 1.2

Date: 3.0
Plotted: 9-Jan-02

Rec. At: 9 1457.00 3000

PARAMETER AND FILTER SUMMARY REPORT

Log_Path	C:\Program Files\Geoframe4.1\Data\Bovie_J-76\Cement Volume Log\Cement Volume Log.pdm
Log_Name	Cement Volume Log
Log_Date_Time	09-Jan-02 14:57:00

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (M)
BOREHOLE & CEMENT	HOLE DIAM	311.00	mm	511 - 1025
	CASING O.D.	244.50	mm	
	CASING WEIGHT	59.53	kg/m	
	CASING I.D.	224.64	mm	
	CEMENT DENSITY	1.90	g/cc	
	MUD DENSITY	1.00	g/cc	

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (M)
BOREHOLE & CEMENT	HOLE DIAM	311.00	mm	511 - 1025
	CASING O.D.	244.50	mm	
	BIT SIZE	311.00	mm	
	CEMENT VOLUME	0.000	m3/m	

CURVE NAME	CURVE ALIAS	CURVE DESCRIPTION
CALI	CALI	CALIPER
CALS	CALS	CALIPER
CALX	CALX	CALIPER
CALY	CALY	CALIPER
CVOL	CVOL	CEMENT VOLUME
GR	GR	GAMMA RAY
TEN	TEN	CABLE TENSION

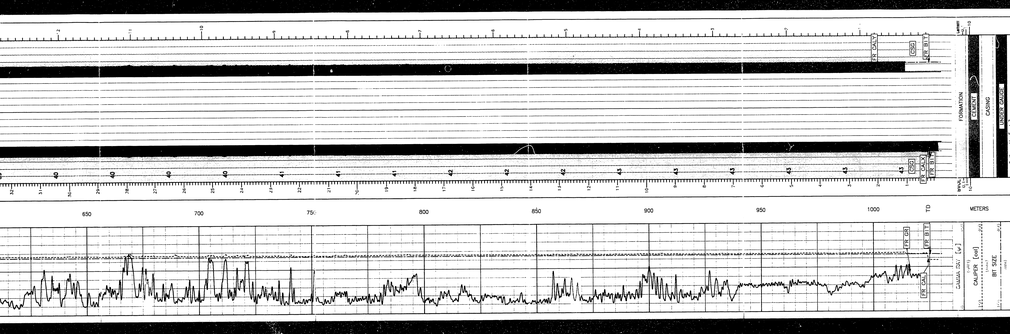
CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
CALI	CALI	9-JAN-02	CALIPER
CALS	CALS	9-JAN-02	CALIPER
CALX	CALX	9-JAN-02	CALIPER
CALY	CALY	9-JAN-02	CALIPER
CVOL	CVOL	9-JAN-02	CEMENT VOLUME
GR	GR	9-JAN-02	GAMMA RAY
TEN	TEN	9-JAN-02	CABLE TENSION

CURVE MEASURE POINT OFFSET

CURVE	DEPTH (M)	CURVE	CALI	CALS	CALX	CALY	CVOL	GR	TEN
	0.00		CALI	CALS	CALX	CALY		GR	
	511.00		0.00	0.00	0.00	0.00		0.14	
Description			CALIPER	CALIPER	CALIPER	CALIPER	CEMENT VOLUME	GAMMA RAY	CABLE TENSION
Data File			C:\Program Files\Geoframe4.1\Projects\Cement Volume Log\Data\						
Data Type			ASCII						
Company			PARAMOUNT RESOURCES LTD.						
Well			PARAMOUNT ANADARKO BOVIE J-76						
Field			BOVIE						
Log Interval			511.00 - 1025.00 Metres						

Version	1.2
Date/Time	9-JAN-02 14:57:00
Data File	C:\Program Files\Geoframe4.1\Projects\Cement Volume Log\Data\
Data Type	ASCII
Company	PARAMOUNT RESOURCES LTD.
Well	PARAMOUNT ANADARKO BOVIE J-76
Field	BOVIE
Log Interval	511.00 - 1025.00 Metres



BAKER HUGHES
Baker Atlas
PARAMOUNT RESOURCES LTD.
PARAMOUNT ANADARKO BOVIE J-76
BOVIE
NWT

FILE NO:	
API NO:	
RUN	1
ELEVATIONS:	
KB	417.0 M
DF	
GL	412.0 M
9-Jan-2002	

BAKER HUGHES

CEMENT VOLUME LOG FOR 222 mm BOREHOLE AND 177.8 mm CASING

Baker Atlas

N.E.B. COPY

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
API NO:	WELL	PARAMOUNT ANADARKO BOVE J-76
	FIELD	BOVE
Ver. 3.01	PROVINCE	NWT
	LOCATION: LYC: 1931	OTHER SERVICES: ZDL-CDN-DR-WV, MAC-GR-WV, HDIL-GR-QAL
	LSD: 300-J-76-6020-12345-00	

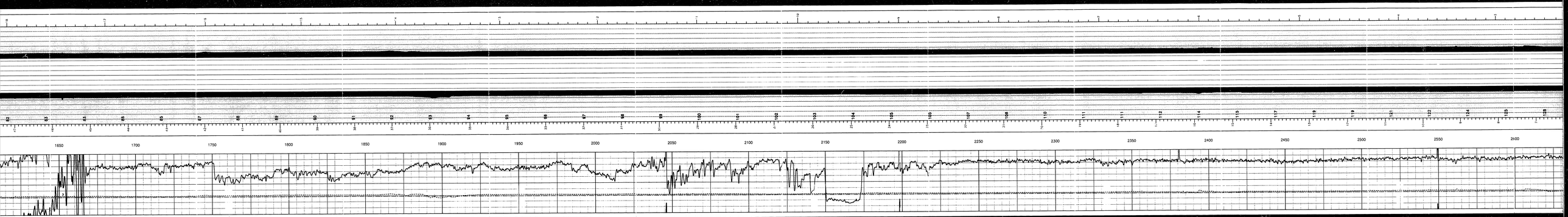
PERMANENT DATUM	G.L.	ELEVATION 412.0 M	ELEVATIONS: KB 417.3 M
LOG MEASURED FROM	K.B.	5.3 M ABOVE P.D.	DF
DRILL MEAS. FROM	KELLY BUSHING		GL 412.0 M

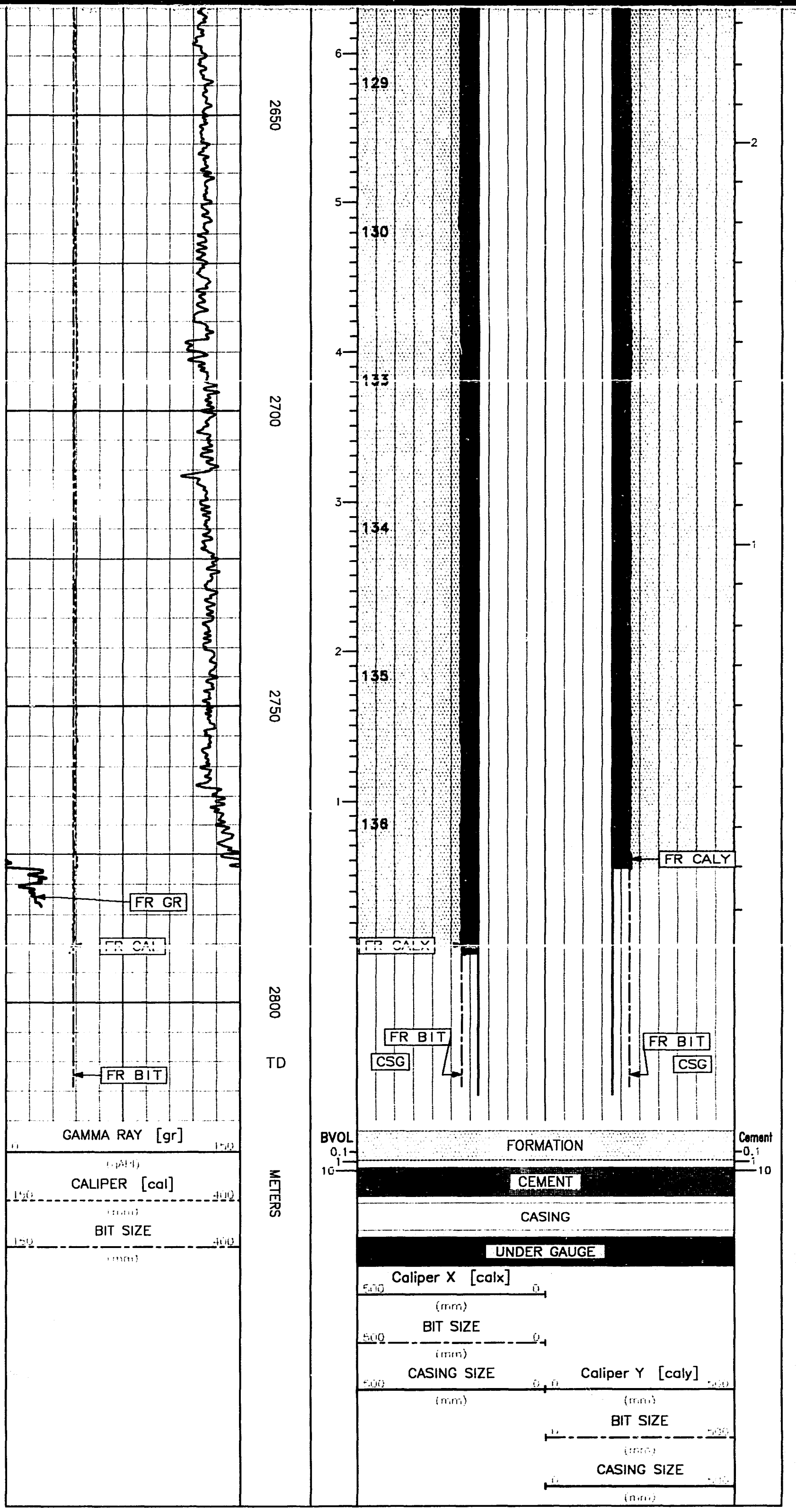
DATE	22-JAN-2002			
RUN	ONE	TRIP	1	
SERVICE ORDER	201592			
DEPTH DRILLER	2811.0 M			
SLTH LOGGER	2811.0 M			
BOTTOM LOGGED INTERVAL	2789.0 M			
TOP LOGGED INTERVAL	1027.0 M			
CASING DRILLER	244.5 MM	@1027.0 M	@	
CASING LOGGER	1027.0 M			
BIT SIZE	222.0 MM			
TYPE OF FLUID IN HOLE	WATER			
DENSITY	VISCOSITY	0.920 G/CC	53.0 S	
PH	FLUID LOSS	N/A	N/A	
SOURCE OF SAMPLE		N/A		
RM AT MEAS. TEMP.		N/A	@N/A	@
RMF AT MEAS. TEMP.		N/A	@N/A	@
RMC AT MEAS. TEMP.		N/A	@N/A	@
SOURCE OF RMF	RMC	N/A	N/A	
RM AT BHT		N/A	@137.4 DEGC	@
TIME SINCE CIRCULATION		16.5 HOURS		
MAX. RECORDED TEMP.		137.4 DEGC		
EQUIP. NO.	LOCATION	NL 1931	FOR, PRAIRIE	
RECORDED BY		L.PYDO / L.POULIN		
WITNESSED BY		F.LOADER		

I'M MAKING REFERENCE HERE TO LINES 24 AND 25 OF BOX 4 ON PAGE 1 OF THE ATTACHED COPY OF THE E-MAIL I SENT TO YOU ON JANUARY 23, 2002. THE INFORMATION IN THOSE LINES IS FROM ELECTRICAL INTERPRETATION. WE SHALL NOT, UNDER ANY CIRCUMSTANCES, CORRELATE OR INTERPRET RADIOACTIVE TRACER OR CEMENT BOND LOGS FOR ANY PURPOSE OTHER THAN THAT AGREED UPON BY ANY OF OUR EMPLOYEES.

REMARKS

Rib 3 TRP 1 1: TIME STOPED CIRCULATION: 17:00 JD JAN 2002.
DEPTH TIED INTO SWS BHC RUN ONE LOGGED 22-JAN-2002
DEPTH TIED INTO SWS BHC RUN ONE LOGGED 22-JAN-2002
CDC SPL=1020 & 2433.5M
BHC_AVG.XPS: AVG CALCULATED FROM AND AVERAGE OF 6 ARMS(CDL)
BHC_AVG.XPS: AVG CALCULATED
AVG4_1: TOTAL CEMENT VOLUME
AVG4_2: TOTAL CEMENT VOLUME
AVG4_3: TOTAL CEMENT VOLUME
AVG4_4: TOTAL CEMENT VOLUME
AVG4_5: TOTAL CEMENT VOLUME
AVG4_6: TOTAL CEMENT VOLUME
AVG4_7: TOTAL CEMENT VOLUME
AVG4_8: TOTAL CEMENT VOLUME
AVG4_9: TOTAL CEMENT VOLUME
AVG4_10: TOTAL CEMENT VOLUME


1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600



BAKER HUGHES Baker Atlas	COMPANY PARAMOUNT RESOURCES LTD. WELL PARAMOUNT ANADARKO BOVIE J-76 FIELD BOVIE PROVINCE NWT		FILE NO: API NO:
	LOCATION: LIC: 1931 LSD: 300-J-76-6020-12245-00	ELEVATIONS: KB 417.3 M DF GL 412.0 M	
		DATE 22-JAN-2002	

N.E.B. COPY

CEMENT VOLUME LOG FOR 114.3 MM CASING AND 152.4 MM BOREHOLE

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT

Ver. 3.81

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

OTHER SERVICES
ZDL-CN-GR-CAL
MAC-GR-CAL
WL-GR-CAL
STAR
HDIL-GR-CAL

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

PERMANENT DATUM G.L. ELEVATION 412.0 M
LOG MEASURED FROM K.B. 5.3 M ABOVE P.D.
DRILL MEAS. FROM KELLY BUSHING

DATE		06-Feb-2002		
RUN	TRIP	3	1	
SERVICE ORDER		201455		
DEPTH DRILLER		3350.0 M		
DEPTH LOGGER		3353.5 M		
BOTTOM LOGGED INTERVAL		3342.5 M		
TOP LOGGED INTERVAL		2811.0 M		
CASING DRILLER		177.8 MM @2828.0 M		●
CASING LOGGER		2811.0 M		
BIT SIZE		152.0 MM		
TYPE OF FLUID IN HOLE		GEL/CHEM		
DENSITY	VISCOSITY	1.170 G/C3	80.0 S	
PH	FLUID LOSS	10.0	6.5 C3	
SOURCE OF SAMPLE		FLOWLINE		
RM AT MEAS. TEMP.		2.58 OHM@	@21.28 DEGC	●
RMF AT MEAS. TEMP.		2.47 OHM@	@20.32 DEGC	●
RMC AT MEAS. TEMP.		2.63 OHM@	@20.46 DEGC	●
SOURCE OF RMF	RMC	MEASURED	MEASURED	●
RM AT BHT		0.62 OHM@	@155.6 DEGC	●
TIME SINCE CIRCULATION		35.0 HOURS		
MAX. RECORDED TEMP.		155.6 DEGC		
EQUIP. NO.	LOCATION	HL 6508	GR, PRAIRIE	
RECORDED BY		A. SHILOV, A.VIOKOVO		
WITNESSED BY		D. TAYLOR		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT BUT BAKER ATLAS DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF ANY OTHER MEASUREMENTS. WE CANNOT AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS:

Run 3 TRIP 1: TIME STOPPED CIRCULATION: 06-FEB-2002 / 24:00 HOURS

ALL LOGS RUN ARE ALSO CALCULATED FROM 5-MAR STAR CALIPERS - RUN 2.

BOREHOLE VOLUME:
BOTTOM TO TOP OF OPEN HOLE: 3342.5 - 2811.0 = 531.5 M
SMALL: 1.12(531.5) x 6.1 CUBIC METERS;
MEDIUM: 1.20(531.5) x 6.1 CUBIC METERS;
LARGE: 1.30(531.5) x 6.1 CUBIC METERS;
CEMENT VOLUME PUMPED ON RIGHT-HAND SIDE.

CREW: E. SMART, J. SHAKA NIC: SPAH MC

RUN	TRIP	LOG	SERIAL NO.	EQUIPMENT DATA	POSITION X-AXIS CENTER	
		ZDL	2532A		FROM	TO
		CAL	2532A			
		CNC	2532A			
		GR	2532A			
		ZDL	2532A			
		CAL	2532A			
		MAC	2532A			
		GR	2532A			
		HDIL	1999PA			
		GR	1999PA			
		STAR	1999PA			
		CAL	1999PA			
		GR	1999PA			
		CBL	1999PA			
		VDL	1999PA			
		CCL	1999PA			
		GR	1999PA			

KNOCKOUT JOINT	2811.0	2811.0
MUD SPACER	2811.0	2811.0
CENTRALIZER	2811.0	2811.0
CENTRALIZER	2811.0	2811.0
ACCOUNTING COLLAR	2811.0	2811.0
CENTRALIZER	2811.0	2811.0
CENTRALIZER	2811.0	2811.0
FLOAT SHOE	2828.0	2828.0

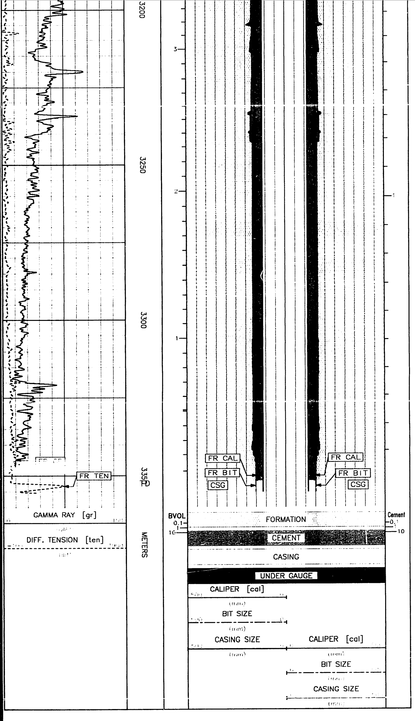
CEMENT VOLUME LOG FOR 114.3 MM CASING

Thu Feb 7 06:26:25 2002

Mon Feb 4 06:26:25 2002

Mon Feb 4 06:26:25 2002

Mon Feb 4



BOREHOLE PROFILE

May 21, 2001 — Fileview 3.20 — Cplot 5.10 — Thu Feb 7 19:31:55 2002
Updates: 1,2 — Perpf /main/53 — Pdf_Cop /main/16

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pcas/pcas_j-76/cal5HR21.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 3828.018 m BOTTOM DEPTH: 3387.105 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
GR	FILTER ()	medium (1)			
TENSION	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm		
BIT SIZE	BIT SIZE	152.400	mm	"	"

CURVE DESCRIPTION REPORT

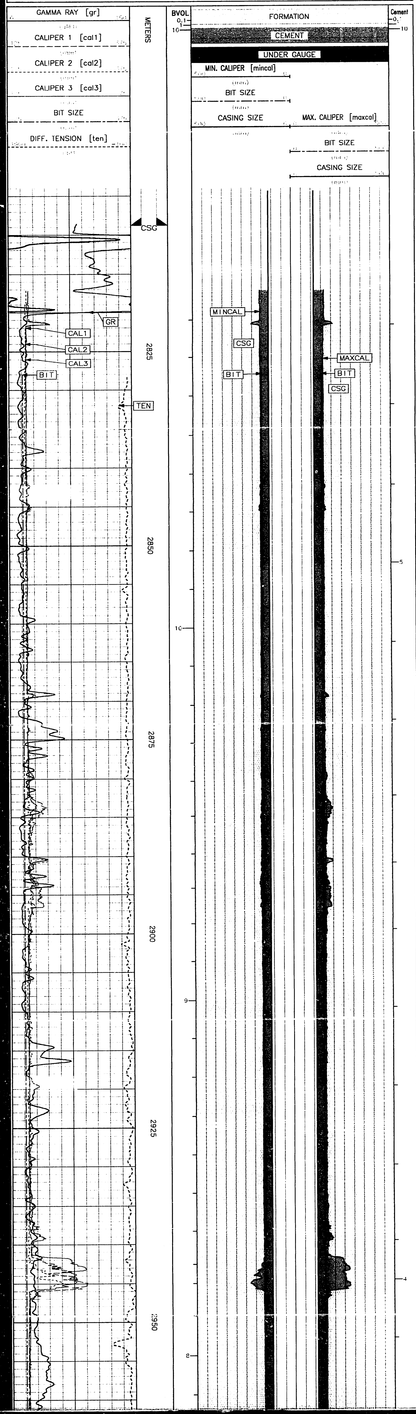
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	XBIT	Feb 7 11:13:58 2002	BIT SIZE
F1:BVLD	BVLD	Feb 7 11:13:58 2002	BOREHOLE VOLUME
F1:CAL1	CAL1	Feb 7 11:13:58 2002	DIAMETER FROM PAD 1 AND 11 OPPOSITE
F1:CAL2	CAL2	Feb 7 11:13:58 2002	DIAMETER FROM PAD 2 AND ITS OPPOSITE
F1:CAL3	CAL3	Feb 7 11:13:58 2002	DIAMETER FROM PAD 3 AND ITS OPPOSITE
F1:CVLD	CVLD	Feb 7 11:13:58 2002	CEMENT VOLUME
F1:GR	GR	Feb 7 11:13:58 2002	GAMMA RAY
F1:TEN	TEN	Feb 7 11:13:58 2002	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CAL2	10.97	GR	19.81		
CAL1	10.97	CAL3	10.97	TEN	0.00		

Presentation : cput:/data/pcas/pcas_j-76/cvl_bwcal.pdf [1:240 Scale]
Plot Interval : 3804.46 - 3387.13 Meters

Data File 1 : F1 : cput:/data/pcas/pcas_j-76/cvl.xtf
Created On : Feb 7 11:13:58 2002
Company : PARAMOUNT RESOURCES CANADA
Well : PARAMOUNT ANADARKO ET AL BOVIE
Field : BOVIE
File Interval : 3804.46 - 3387.13 Meters
Dot : pDSHR



MISCELLANEOUS

Baker Atlas

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SIMULTANEOUS ACOUSTIC AND RESISTIVITY IMAGING LOG®

FILE NO:	
API NO:	
COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADARKO ET AL BOVIE J-76
FIELD	
PROVINCE	BOVIE
	NWT
LOCATION:	
LIC: 1931	
LSD: 30O-J-76-6020-1245-00	

Ver. 3.81

PERMANENT DATUM: G.L.
LOG MEASURED FROM: K.B. 5.3 M ELEVATION 412.0 M ABOVE P.D.
DRILL MEAS. FROM: KELLY BUSHING

ELEVATIONS: KB 417.3 M, DF , GL 412.0 M

OTHER SERVICES: DIL-GR-CAL, LDL-CNL-GR-CAL, DSI-GR-CAL

	RUN 3	RUN 2	RUN 1
DATE	05-Feb-2002		
SERVICE ORDER	201455		
DEPTH DRILLER	3350.0 M		
BOTTOM LOGGED INTERVAL	3353.5 M		
TOP LOGGED INTERVAL	2828.0 M		
CASING DRILLER	177.8 MM @ 2828.0 M	@	@
CASING LOGGER	2828.0 M		
BIT SIZE	150.0 MM		
TYPE OF FLUID IN HOLE	GEL-CHEM		
DENSITY	1170 KG/M3		
PH	10.0		
FLUID LOSS	6.0 C3		
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.	2.58 OHMM @ 21.28 DEGC		
RMF AT MEAS. TEMP.	2.12 OHMM @ 22.52 DEGC		
RMC AT MEAS. TEMP.	OHMM @ DEGC		
SOURCE OF RMF	MEAS		
RMC	MEAS		
RM AT BHT	0.93 OHMM @ 155.6 DEGC		
TIME SINCE CIRCULATION	5.5 HOURS		
MAX. RECORDED TEMP.	155.6 DEGC		
EQUIP. NO.	HL 6598		
RECORDED BY	A. BAUSS, M. CHERO		
WITNESSED BY	D. TAYLOR		

LOCATION: TOR PRAIRIE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 3 TRIP 1 : TIME STOPPED CIRCULATION: 05-FEB-2002 / 24:00 HOURS

STAR-CBIL-GR RECORDED IN COMBINATION.

100 SACKS OF BARRITE ADDED TO HOLE.
TOOL PULLED TIGHT AT 2991, HAD TO CLOSE STAR PADS FOR SEVERAL METERS TO BREAK FREE

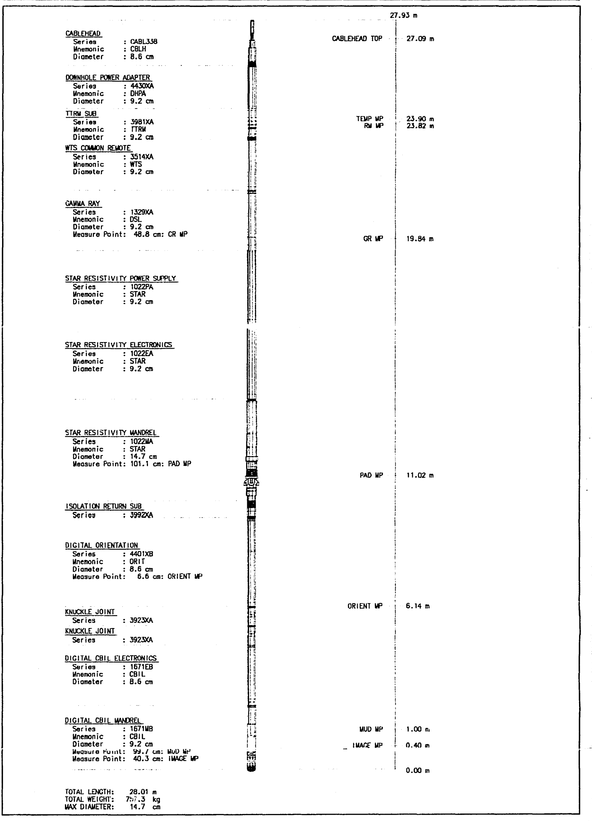
CREW: E. BARRETT, J. SARMAGA RIG: SEHTAH #4E

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	ADPTR	4430XA	365798	FREE
2	1	TTRM	3981XA	180401	FREE
2	1	COMR	3514XA	153396	FREE
2	1	DGR	1329XA	116930	FREE
2	1	STAR	1022PA	365795	FREE
2	1	STAR	1022EA	365791	FREE
2	1	STAR	1022MA	365793	CENTRALIZED
2	1	ISO	3992XA	177795	ISOLATION SUB
2	1	ORIT	4401XA	370773	ORIENTATION TOOL
2	1	DKNJT	3923XA	10043023	DOUBLE KNUCKLE
2	1	CBIL	1671EB/1671MB	165456/150178	CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /data/pass/para_j-76/star-tdg



MAIN PASS

May 21, 2001
Updates: 1,2

Fileview 3.20
Perplt /main/53

Cplot 5.10
Pdf_Cpp /main/16

Thu Feb 7 19:13:37 2002

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/para_j-76/g836KD1.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2828.018 m BOTTOM DEPTH: 3367.105 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	INTERVAL (m) BOTTOM
CHT	FILTER ()	medium (1)		"	"
	FILTER (.f)	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:EHTA	EHTA	Feb 7 11:13:58 2002	REFLECTANCE PEAK VOLTS
F1:CHT	CHT	Feb 7 11:13:58 2002	CABLE HEAD TENSION
F1:DEPTH	STAR_RAW_DATA	Feb 7 11:13:58 2002	SYSTEM DEPTH
F1:GCOD	GCOD	Feb 7 11:13:58 2002	COMPOSITE PAD GAIN CODE
F1:GR	GR	Feb 7 11:13:58 2002	GAMMA RAY
F1:P1BTN	P1BTN	Feb 7 11:13:58 2002	PACKED PAD 1 BLOCK (BUTTONS 1-24)
F1:P2BTN	P2BTN	Feb 7 11:13:58 2002	PACKED PAD 2 BLOCK (BUTTONS 1-24)
F1:P3BTN	P3BTN	Feb 7 11:13:58 2002	PACKED PAD 3 BLOCK (BUTTONS 1-24)
F1:P4BTN	P4BTN	Feb 7 11:13:58 2002	PACKED PAD 4 BLOCK (BUTTONS 1-24)
F1:P5BTN	P5BTN	Feb 7 11:13:58 2002	PACKED PAD 5 BLOCK (BUTTONS 1-24)
F1:P6BTN	P6BTN	Feb 7 11:13:58 2002	PACKED PAD 6 BLOCK (BUTTONS 1-24)
F1:RAD1	RAD1	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 1 FACE
F1:RAD2	RAD2	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 2 FACE
F1:RAD3	RAD3	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 3 FACE
F1:RAD4	RAD4	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 4 FACE
F1:RAD5	RAD5	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 5 FACE
F1:RAD6	RAD6	Feb 7 11:13:58 2002	RADIUS, TOOL AXIS TO PAD 6 FACE
F1:TEN	TEN	Feb 7 11:13:58 2002	DIFFERENTIAL TENSION
F1:TTEN	TTEN	Feb 7 11:13:58 2002	TOTAL TENSION

CURVE MEASURE POINT OFFSET

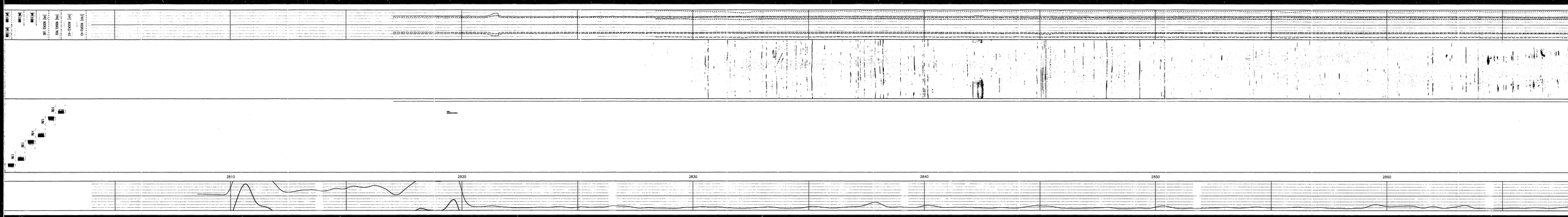
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	GR	19.81	RAD3	10.97	RAD6	10.97
CHTOF	0.00	RAD1	10.97	RAD4	10.97	TEN	0.00
GCOD	10.97	RAD2	10.97	RAD5	10.97	TTEN	0.00

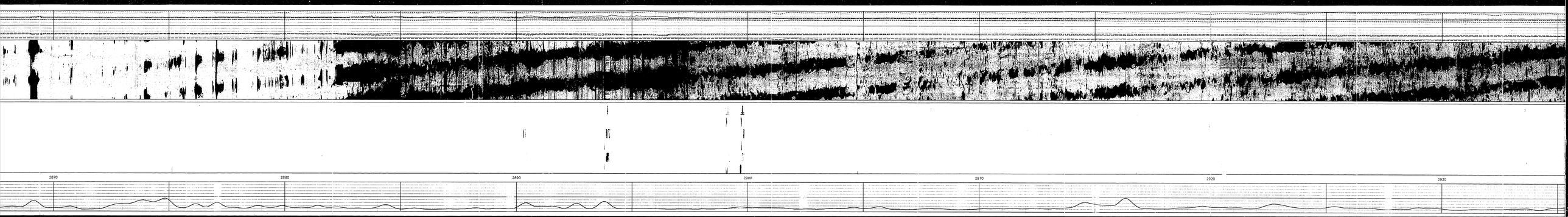
Presentation : cput:/data/pass/para_j-76/star_main.pdf [1:40 Scale]
Plot Interval : 2804.45 - 3357.13 Meters

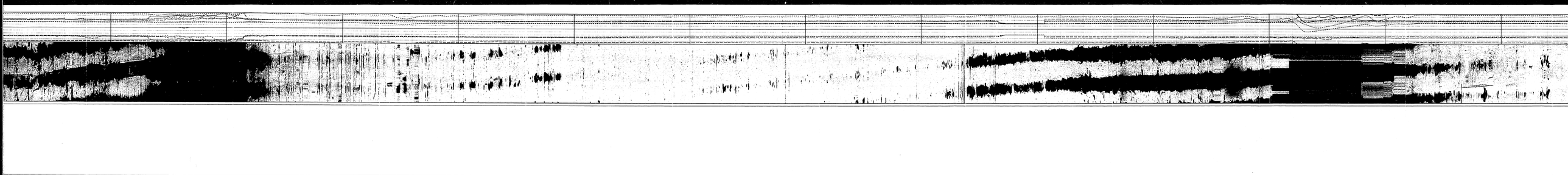
Data File 1 : F1 : cput:/data/pass/para_j-76/g836KD1.xtf
Created On : Feb 7 11:13:58 2002
Company : PARAMOUNT RESOURCES CANADA
Well : PARAMOUNT ANADARKO ET AL BOVIE
Field : BOVIE
File Interval : 2804.45 - 3357.13 Meters
Oct : g836K

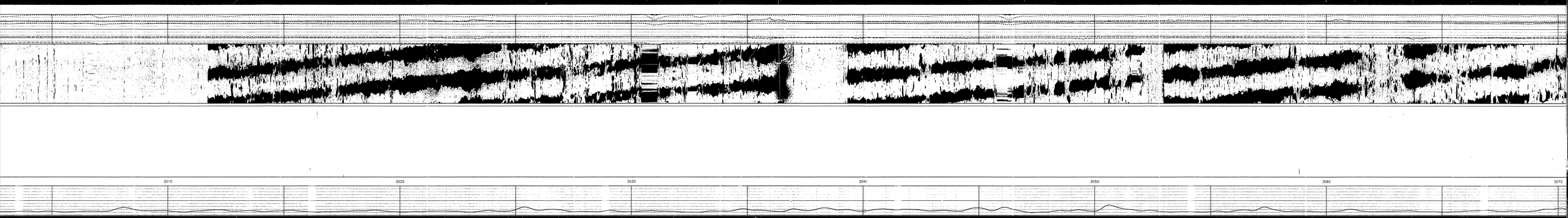
GAMMA RAY [gr] | METERS | RAW STAR PAD DATA | AMPLITUDE [bhta]

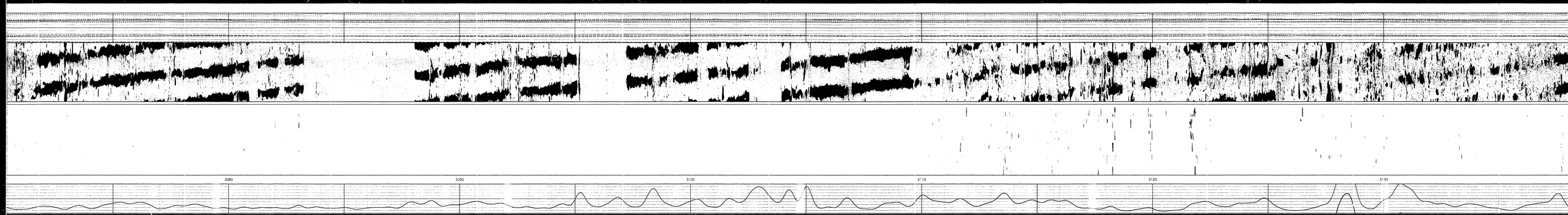
PAD 1

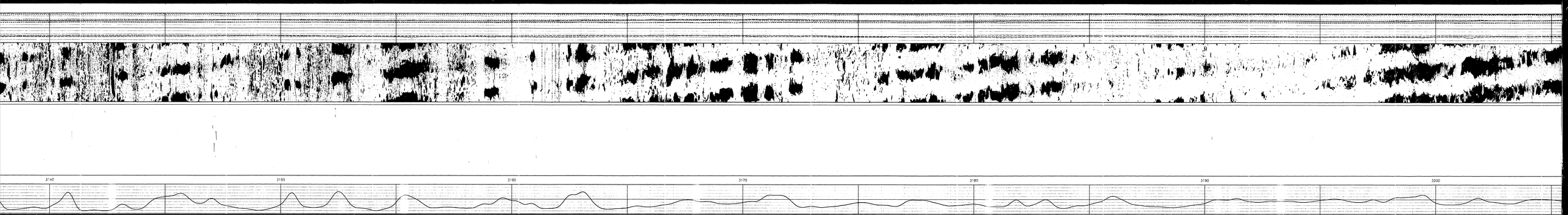

2810
2820
2830
2840
2850
2860

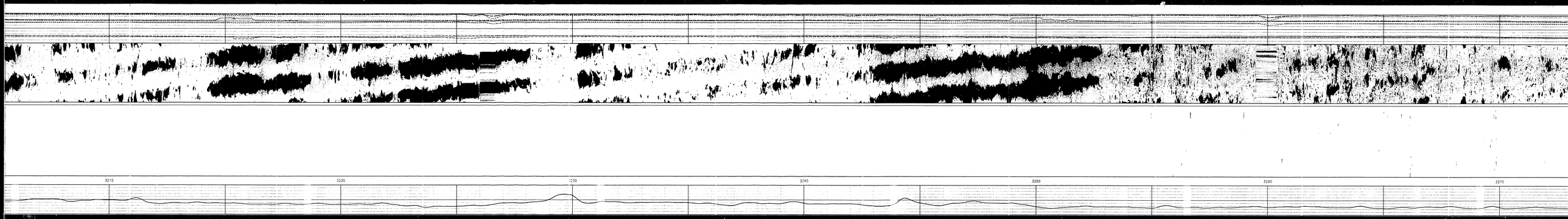

2870
2880
2890
2900
2910
2920
2930

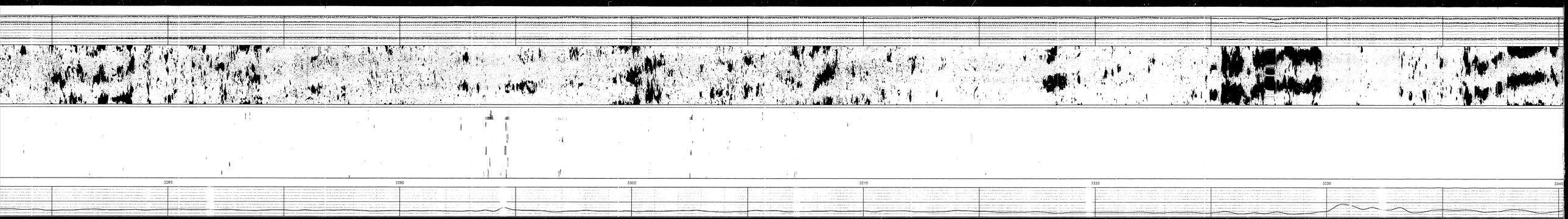

2940
2950
2960
2970
2980
2990
3000


3010
3020
3030
3040
3050
3060
3070


3080
3090
3100
3110
3120
3130


3140
3150
3160
3170
3180
3190
3200


3210
3220
3230
3240
3250
3260
3270


3280
3290
3300
3310
3320
3330
3340

MINILOG ®
GAMMA RAY LOG
CALIPER LOG

Baker Atlas

N.E.B. COPY

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
	WELL	PARAMOUNT ANADARKO BOVIE J-76
API NO:	FIELD	BOVIE
	PROVINCE	NWT
Ver. 3.81	LOCATION: LIC: 1931	OTHER SERVICES: ZDL-CN-GR-CAL, MAC-CR-CAL, HDIL-GR-CAL, STAR, CVL
	LSD: 300-J-76-6020-12245-00	

PERMANENT DATUM	G.L.	ELEVATION 412.0 M	ELEVATIONS: KB 417.3 M
LOG MEASURED FROM	K.B.	5.3 M ABOVE P.D.	DF
DRILL MEAS. FROM	KELLY BUSHING		GL 411.0 M

DATE		05-Feb-2002	
RUN / TRIP		3 / 1	
SERVICE ORDER		201455	
DEPTH DRILLER		3350.0 M	
DEPTH LOGGER		3353.5 M	
BOTTOM LOGGED INTERVAL		3352.5 M	
TOP LOGGED INTERVAL		2808.8 M	
CASING DRILLER		177.8 MM @2808.0 M	@
CASING LOGGER		2808.8 M	
BIT SIZE		152.0 MM	
TYPE OF FLUID IN HOLE		GELCHEM	
DENSITY / VISCOSITY		1.170 G/C3 / 80.0 S	
PH / FLUID LOSS		10.0 / 6.5 C3	
SOURCE OF SAMPLE		FLOWLINE	
RM AT MEAS. TEMP.		2.58 OHMM @21.28 DEGC	@
RMF AT MEAS. TEMP.		2.47 OHMM @20.52 DEGC	@
RMC AT MEAS. TEMP.		2.83 OHMM @20.48 DEGC	@
SOURCE OF RMF / RMC		MEASURED / MEASURED	
RM AT BHT		0.6 OHMM @155.6 DEGC	@
TIME SINCE CIRCULATION		20.0 HOURS	
MAX. RECORDED TEMP.		155.6 DEGC	
EQUIP. NO. / LOCATION		HL 6558 / GR. PRAIRIE	
RECORDED BY		A.BALOG, W.VICKERD	
WITNESSED BY		G. TAYLOR	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT; BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSE INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 3 TRIP 1: TIME STOPPED CIRCULATION: 05-FEB-2002 / 24:00 HOURS

ML-HDIL-MAC-ZDL-CN-GR-XY RECORDED IN COMBINATION.

BVDL AND CVDL ARE CALCULATED FROM AND AVERAGE OF X-AXIS(ZDL) AND Y-AXIS(MAC) CALIPERS - RUN 1.
BVOL & TOTAL BOREHOLE VOLUME CALCULATED FROM 4-ARM STAR CALIPERS - RUN 2.
SMALL 1 INCH(S) = 1.0 CUBIC METER(S).
LARGE 1 INCH(S) = 10.0 CUBIC METER(S).
SMALL 1 INCH(S) = 1.0 CUBIC METER(S).
LARGE 1 INCH(S) = 10.0 CUBIC METER(S).
CVOL PRESENTED ON RIGHT-HAND SIDE.
BVOL PRESENTED ON LEFT-HAND SIDE.

MUD LOG NOT RECORDED DUE TO TIME AND HIGH TEMPERATURE CONSTRAINTS ON BOTTOM.

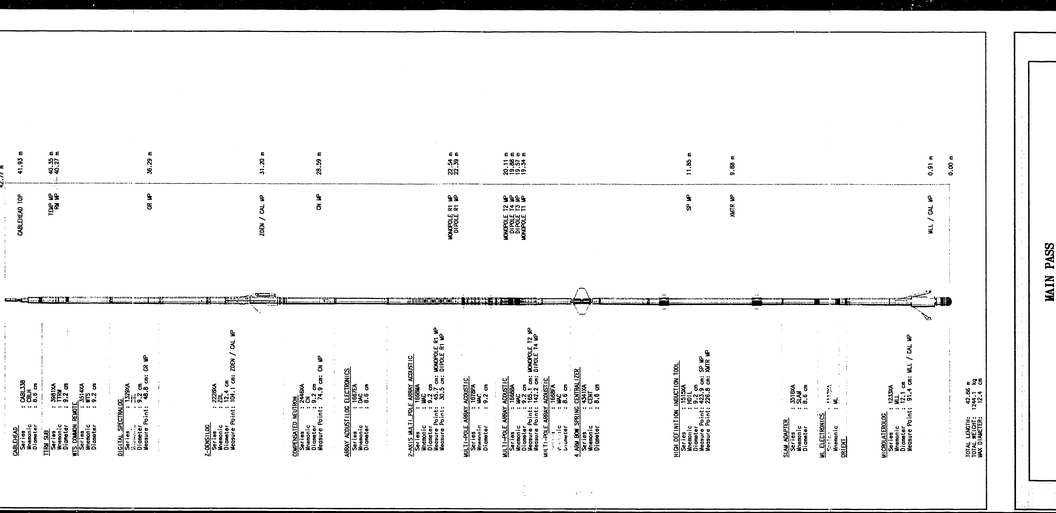
100 SACKS OF BARITE ADDED TO HOLE.

CREW: E. BARRETT, J. SAMAHA RIG: SDTAH #4E

RUN	TRIP	TOOL	EQUIPMENT DATA SERIES NO.	SERIAL NO.	POSITION (+ABV/BLW KELLY BUSHING)
3	1	CABLEHEAD	3001A	19428	FLEX
3	1	ZDL	3003A	19428	FLEX
3	1	CNDL	3003A	19428	FLEX
3	1	CNDL	3003A	19428	FLEX
3	1	FAST	3003A	19428	MIDPOINT JOINT
3	1	CAL	2224-XY-229MA	10700/19637	PAD BACK
3	1	MAC	2224-XY-229MA	10700/19637	MIDPOINT JOINT
3	1	MAC	1501A	19197	CENTRALIZED
3	1	MAC	1501A	19197	CENTRALIZED
3	1	MAC	1504A	19144	CENTRALIZED
3	1	MAC	1504A	19144	CENTRALIZED
3	1	MAC	1505A	17254	ACCELEROMETER
3	1	MAC	1505A	17254	CENTRALIZED
3	1	MAC	1512-XY-138A	10699/19636	MIDPOINT JOINT
3	1	SUB	1112-XY-138A	10699/19636	PAD BACK
3	1	SUB	1112-XY-138A	03500/20621	PAD BACK

Source File: /data/pass1_76/ml-15g

INSTRUMENT CONFIGURATION



MAIN PASS

May 21, 2001 10:42
Updated: 1.2

Effective 3.20
Prog: /mdoi/53

Cplot 5.10
Pdf Cop /mdoi/16

Thu Feb 7 15:08:35 2002

PARAMETER AND FILTER SUMMARY REPORT

LOG: /data/pass1_76/ml-15g.dfs
FILTERING: /data/pass1_76/filt.prm
TOP DEPTH: 2732.989 m BOTTOM DEPTH: 3351.782 m

MEASUREMENT TYPE	PARAMETER	SYMMETRIC FILTER VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
X AXIS CALIPER	FILTER (.3)	median (3)		"	"
	FILTER (.6)	median (5)		"	"
	FILTER (1)	median (9)		"	"
GR	FILTER ()	median ()		"	"
ML	FILTER ()	median ()		"	"

MEASUREMENT TYPE	PARAMETER	BOREHOLE & CEMENT VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	114.300	mm	TOP	BOTTOM
X-Y CALIPER	X-Y CALIPER	DENSITY CALIPER		"	"
BIT SIZE	BIT SIZE	152.000	mm	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Feb 7 15:15:53 2002	BIT SIZE
F1:BVOL	BVOL	Feb 7 15:15:53 2002	BOREHOLE VOLUME
F1:CVOL	CVOL	Feb 7 15:15:53 2002	CALIPER VOLUME (AXIS OF X-Y CALIPER(S))
F1:CVOL	CVOL	Feb 7 15:15:58 2002	CEMENT VOLUME
F1:HTEN	HTEN	Feb 7 15:15:58 2002	CABLE TENSION
F1:RLWL	RLWL	Feb 7 15:15:58 2002	1 INCH LATERAL RESISTIVITY
F1:RSGL	RSGL	Feb 7 15:15:58 2002	SHORT GUARD RESISTIVITY
F1:MTEM	MTEM	Feb 7 15:15:58 2002	TEMPERATURE OF THE BOREHOLE

CURVE MEASURE POINT OFFSET

CURVE	CURVE OFFSET (m)	CURVE	CURVE OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	GR	36.27	RWL	1.14		
HTEN	0.00	ML	0.00				

Presentation: /prod/data/prog/prog-2-76/ml_main.pdf [1:240 Scale]
Data File 1 : F1 : /prod/data/pass1_76/ml_main_J-76_d2708025.dfs
Created On : Feb 7 15:15:53 2002
Created By : PARAMOUNT ANADARKO ET AL BOVIE
Well : PARAMOUNT ANADARKO BOVIE J-76
Field : BOVIE
File Interval : 2807.42 - 3351.97 Meters
Cal : gf76p

Calliper X: [cm/in]

CR BACKUP

XCAL < BIT

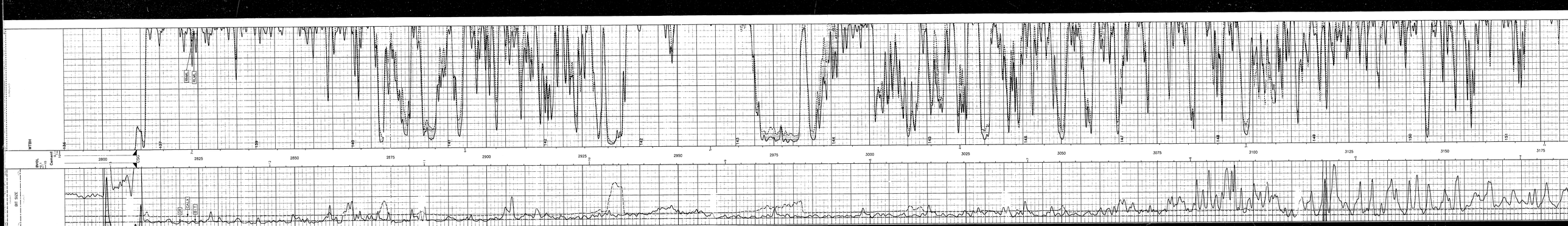
GAMMA RAY [gr]

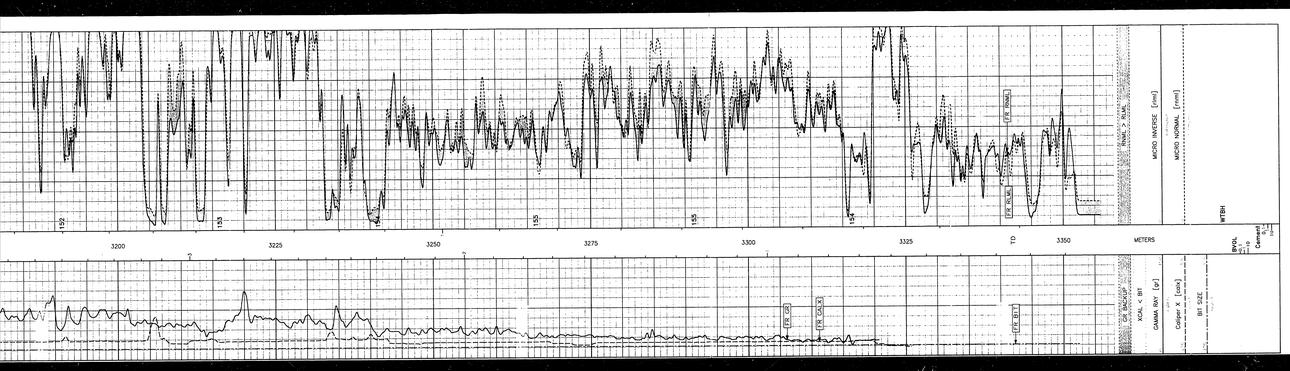
METERS

RWAL > RLWL

MICRO INVERSE [rmni]

MICRO NORMAL [rmnl]


WTBH
BVOL
Cmd
Vol
BIT SIZE
ROP
WOB
RPM
TRQ
2800
2825
2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150
3175
135
136
137
139
140
141
142
143
144
145
146
147
148
149
150
151



REPEAT PASS

Rig: FL 2001
Update: 1.2

Filename: 3.20
Pass Type: Main Pass

Gbor 3.10
Rig: Sky Peak IV

Thu Feb 7 15:28:44 2002

PARAMETER AND FILTER SUMMARY REPORT

Depth Control Parameters
Log Interval: 3225.0 to 3350.0 Meters
Log Speed: 304.801 m

MEASUREMENT TYPE	PARAMETER	SYMMETRIC FILTER	UNITS	INTERVAL (ft)
		NUMBER		TOP BOTTOM
X AXIS CALIPER	FILTER (1)	median (1)		
	FILTER (2)	median (1)		
CALI (1st CALIPER)	FILTER (3)	median (1)		
GR	FILTER (4)	median (1)		
TENSION	FILTER (5)	median (1)		
TEMPERATURE	FILTER (7)	median (1)		

MEASUREMENT TYPE	PARAMETER	BOREHOLE & CASING VALUE	UNITS	INTERVAL (ft)
CASING - Nominal & CASING WEIGHT	CASING O.D.	114.00	in	TOP BOTTOM
X AXIS CALIPER	CASING WEIGHT	0.0000	lbm/ft	
BIT SIZE	BIT SIZE	192.000	in	

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
XCAL		7 07:45:15 2002	BIT SIZE
FILCAL	BSIZ	7 07:45:16 2002	CALIPER DATA
FILCAL	BSIZ	7 07:45:16 2002	CALIPER DATA Offset of 1320 WITH OTHER CALIPERS IN STRING
FILGR	GR	7 07:45:16 2002	GAMMA RAY
FILTEN	TEN	7 07:45:16 2002	CABLE TENSION
FILTEM	TEM	7 07:45:16 2002	TEMPERATURE
FILRAL	RALI	7 07:45:16 2002	2 INCH SIGNAL RESISTIVITY
FILRAL	RALI	7 07:45:16 2002	2 INCH NORMAL RESISTIVITY
FILTD	TD	7 07:45:16 2002	TOTAL DEPTH

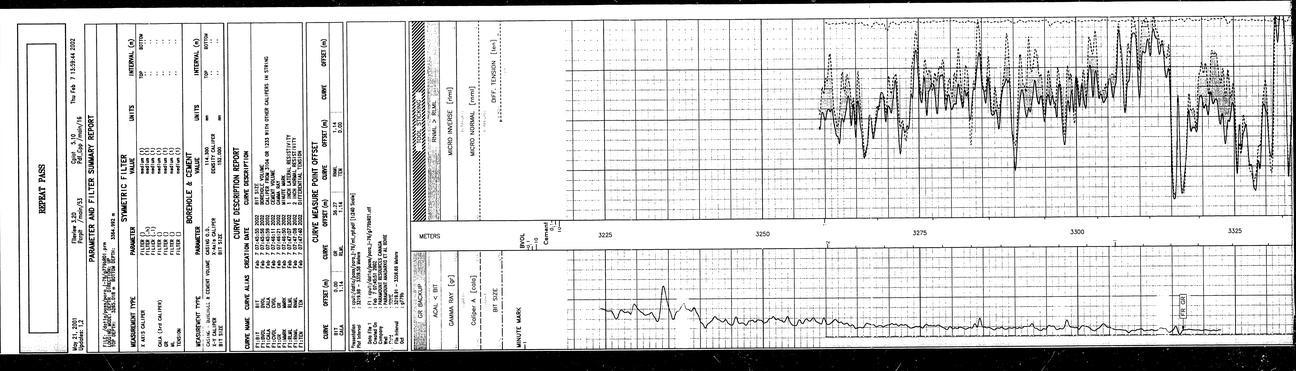
CURVE MEASURE POINT OFFSET

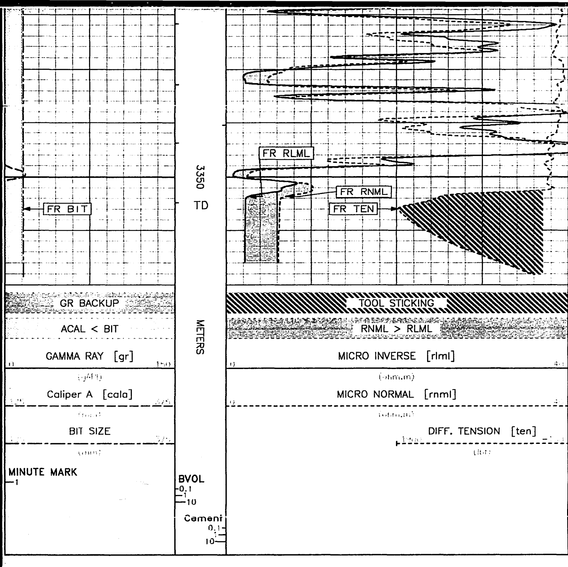
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	GR	39.27	TEN	5.24
CALI	5.00	RALI	39.27	TEM	5.24

Transducer Offset: 0.00 ft
Bit to Tip Offset: 0.00 ft
Tool Zero Check: 0.00 in
Tool Type: Sky Peak IV
Tool Serial #: 1
Tool Length: 33.00 ft
Max Temperature: 0 degF

Logging Company: Schlumberger
Logging Engineer: Mr. Ed Smith
Witness: Mr. Ed Smith
Rig Name: Sky Peak IV
Rig Type: Land
Rig Contractor: Sky Peak Drilling
Rig Number: 1
Rig Phone: 555-1212
Rig Fax: 555-1213
Rig Address: 123 Sky Peak Drive, Anywhere, USA
Rig Location: Sky Peak Drilling Co. Yard
Rig Elevation: 3000 ft
Log Measured From: KB
Permanent Datum: KB
Elevation: 3000 ft
Drilling Measured From: KB

Run Number: 1
Depth Driller: 3350.0 Meters
Depth Logger: 3350.0 Meters
Bottom Logged Interval: 3350.0 Meters
Top Logged Interval: 3225.0 Meters
Casing Driller Size: 114.00 in @ 3225.0 Meters
Casing Logger Size: 114.00 in @ 3225.0 Meters
Bit Size: 192.000 in
Type Fluid in Hole: Water
Density: 8.33 lbm/gal
Viscosity: 0.00 cp
Fluid Loss: 0.00 cc
Source of Sample: Flowline
Rm @ Measured Temp: 0.00 ohmm @ 0 degF
Rmf @ Measured Temp: 0.00 ohmm @ 0 degF
Rmc @ Measured Temp: 0.00 ohmm @ 0 degF
Source of Rmf and Rmc: Measured
Rm @ BHT: 0.00 ohmm @ 0 degF
Time Since Circulation: 0.00 hr
Time on Bottom: 0.00 hr
Maximum Recorded Temperature: 0 degF
Equipment Number: 1
Location: Sky Peak Drilling Co. Yard
Recorded By: Mr. Ed Smith
Witnessed By: Mr. Ed Smith





CALIBRATION / VERIFICATION SUMMARY

Source File: /data/pass/para_j-76/g779b.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Thu Jan 31 13:34:33 2002

UNIT #: 3880TC HL6558 CALB JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	349.67	1263.84	914.2 (875.0 960.2)	0.164	57.37	207.37	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Thu Jan 31 13:48:42 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	347.36	1268.58	0.164	56.99	208.15	151.16 (140.00 160.00)

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Wed Feb 06 14:27:22 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	244.69	1139.56	0.164	40.15	186.98	146.83 (141.16 161.16)

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 116930 DATE/TIME PERFORMED: Wed Feb 06 23:24:16 2002

UNIT #: 3880TC HL6558 VERI JIG #: 4702NK DA-303

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	268.36	1166.93	0.164	44.03	191.47	147.44 (136.85 156.85)

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Thu Jan 17 02:35:59 2002

UNIT #: 3880TC HL6558

	SMALL RING (mV)	LARGE RING (mV)	MULT	ADD	SMALL RING (mm)	LARGE RING (mm)
CALIPER	1604.0	2173.1	0.17852	-83.13259	203.200	304.800

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 14:54:10 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	1073.7	0.17852	-32.27835	159.400

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 21:56:21 2002

UNIT #: 3880TC HL6558

	I.D. (mV)	MULT	ADD	I.D. (mm)
CALIPER	939.9	0.17852	-32.27835	135.514 (166.700 177.100)

ML PRIMARY CALIBRATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 19:06:43 2002

UNIT #: 3880TC HL6558

	INT ZERO (raw)	INT CAL (raw)	MULT	ADD	ZERO (ohm.m)	CAL (ohm.m)
RNML resistivity	0.443	1181.88	0.00846	-0.00375	0.000	10.00
RLML resistivity	0.458	1188.60	0.00842	-0.00385	0.000	10.00

ML AFTER LOG VERIFICATION SUMMARY

TOOL #: 1233XA 078571 DATE/TIME PERFORMED: Wed Feb 06 22:12:14 2002

UNIT #: 3880TC HL6558

	INT ZERO (raw)	INT CAL (raw)	MULT	ADD	ZERO (ohm.m)	CAL (ohm.m)
RNML resistivity	3.418	1164.79	0.00846	-0.00375	0.025 (-0.100 0.100)	9.86 (9.50 10.50)
RLML resistivity	20.187	1180.05	0.00842	-0.00385	0.166 (-0.100 0.100)	9.93 (9.50 10.50)

BAKER HUGHES

Baker Atlas

COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADARKO BOVIE J-76
FIELD	BOVIE
PROVINCE	NWT
FILE NO:	
API NO:	

LOCATION:
LIC: 1931
LSD: 300-J-76-6020-12245-00

ELEVATIONS:
KB 417.3 M
DF
GL 412.0 M

DATE 06-Feb-2002

COMPUTALOG

CS409

SECTOR BOND LOG

Company: PARAMOUNT RESOURCES LTD.

Well: PARAMOUNT ANADARKO BOYD C-76

Field: BOYD

Province: NORTHWEST TERRITORIES

N.E.B. COPY

LOCATION 1010' FNL & 1010' FWL
Twp. Range 32 SEC. 26 TWP. 120 RGE. 17 W5M
Not Required Fnm Surface
Elevations: K.B. 1010.0 m
G.L. 1007.0 m
D.F. N/A

Logged Interval: 1010.0 m To 1010.0 m
Casing Shoe: 1010.0 m To 1010.0 m
Bit Size: 1010.0 m To 1010.0 m
Type Fluid in Hole: 1010.0 m To 1010.0 m
Density: 1010.0 m To 1010.0 m
Max. Rec. Temp. Deg. C: 1010.0 m To 1010.0 m
Operating Rig Time: 1010.0 m To 1010.0 m
Max. Hole Dev. 1010.0 m To 1010.0 m
Equip. Location: 1010.0 m To 1010.0 m
Recorded By: 1010.0 m To 1010.0 m
Witnessed By: 1010.0 m To 1010.0 m

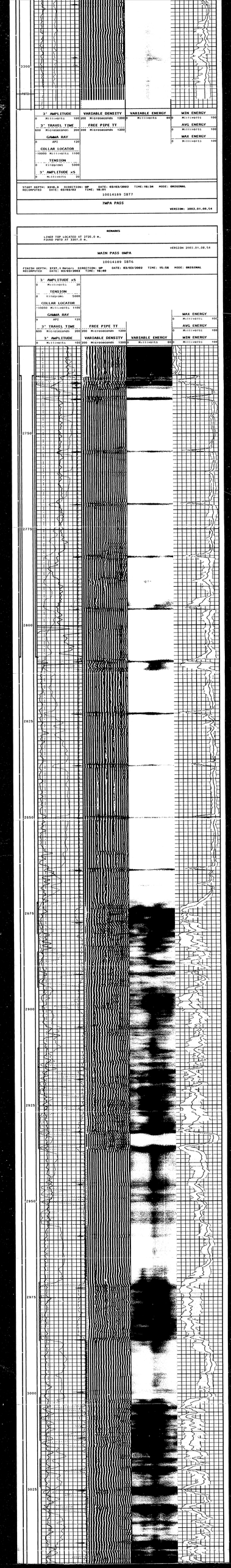
RUN NO.	BIT NO.	DEPTH DRILLER	DEPTH LOGGER	BTM. LOG INTERV.	TOP LOG INTERV.	CASING DRILLER	CASING LOGGER	BIT SIZE
ONE	ONE	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
TWO	TWO	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
THREE	THREE	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0

TYPE LOG	RUN NO.	TOP LOGGED INTERVAL	BOTTOM LOGGED INTERVAL	CASING-DRILLER	CASING-LOGGER	BIT SIZE	TYPE FLUID IN HOLE	DENSITY	VISCOSITY	PH	FLUID LOSS	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE RMF	SOURCE RMC	RM @ BHT	TIME CIRC.	TIME LOGGER ON BOTTOM	MAX. REC. TEMP.	EQUIP. LOCATION	RECORDED BY	WITNESSED BY
DUAL INDUCTION SFL	ONE	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
BOREHOLE COMPENSATED SONIC	ONE	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
FORMATION DENSITY COMPENSATED	ONE	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0

RUN NO.	BIT NO.	TYPE	SIZE	FROM	TO
ONE	ONE	1010.0	1010.0	1010.0	1010.0
TWO	TWO	1010.0	1010.0	1010.0	1010.0
THREE	THREE	1010.0	1010.0	1010.0	1010.0

RUN NO.	TYPE	SIZE	FROM	TO
ONE	1010.0	1010.0	1010.0	1010.0
TWO	1010.0	1010.0	1010.0	1010.0

[redacted]



START DEPTH: 3310.3 DIRECTION: UP DATE: 03/03/2002 TIME: 18:34 MODE: ORIGINAL
RECOMPUTED DATE: 03/03/02 TIME: 18:01

10014189 SBT7

7MPA PASS

VERSION: 2002.01.00.54

REMARKS

LINER TOP LOCATED AT 3735.0 m.
TUBING PBTD AT 3307.0 m.

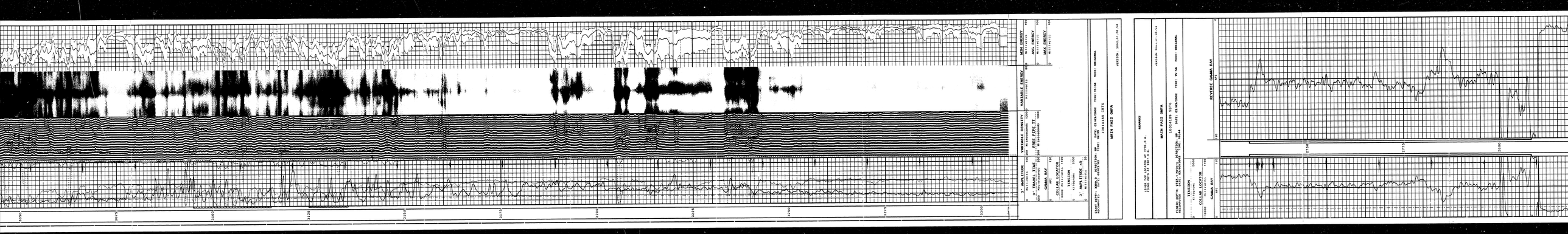
VERSION 2002.01.00.54

MAIN PASS GMPA

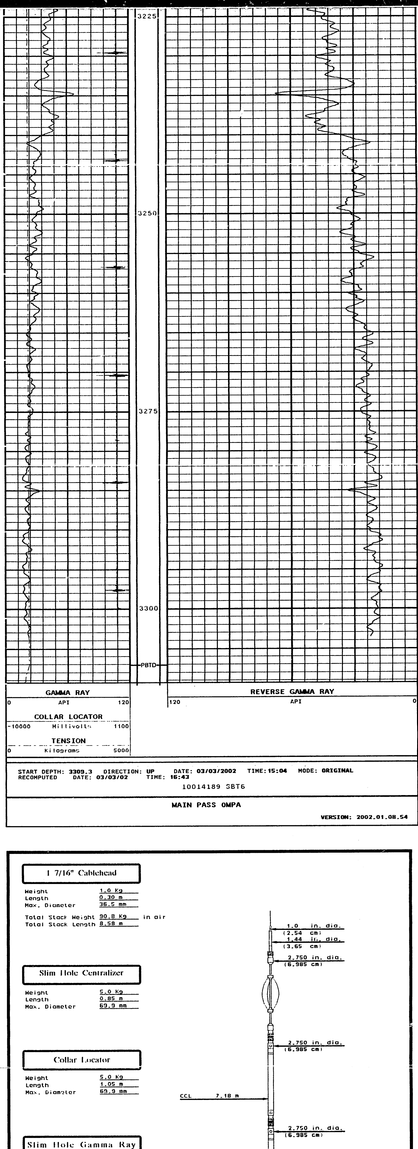
10014189 SBT6

FINISH DEPTH: 2727.1 Meters DIRECTION: UP DATE: 03/03/2002 TIME: 15:58 MODE: ORIGINAL
RECOMPUTED DATE: 03/03/2002 TIME: 16:40

VERSION 2002.01.00.54


VARIABLE DENSITY
MAIN ENERGY
AVG. ENERGY
MAX ENERGY
3" AMPLITUDE
3" TRAVEL TIME
CASING COLLAR LOCATION
TENSION
MAIN PASS GMPA
100141695 DATA
REVERSE GAMMA RAY
3250
3225
3200
3175
3150
3125
3100
3075
3050


2375
2850
2875
2900
2925
2950
2975
3000
3025
3050
3075
3100
3125
3150
3175
3200



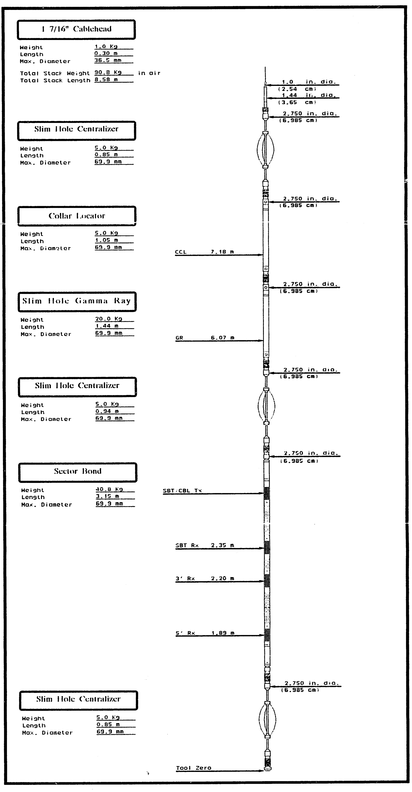
GAMMA RAY		REVERSE GAMMA RAY
0 API 120		120 API 0
COLLAR LOCATOR		
-10000 Millivolts 1100		
TENSION		
0 Kilograms 5000		

START DEPTH: 3309.3 DIRECTION: UP DATE: 03/03/2002 TIME: 15:04 MODE: ORIGINAL
RECOMPUTED DATE: 03/03/02 TIME: 16:43

10014189 SBT6

MAIN PASS GMPA

VERSION: 2002.01.08.54



COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE PROVINCE N&T

COMPUTALOG

COMPUTALOG

CS-100

COLLAR LOG

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE
I-76

FIELD BOVIE

PROVINCE NORTHWEST TERRITORIES

LOCATION AT/S
Perm. Datum: GROUND LEVEL Elev: 437.00 M
Log Measured from: KELLY BUSHING 9.00(m) above Perm. Datum
Elev.: K.B. 437.00
G.L. 437.00
D.F. N/A

Other Services
CBL/VDL/GR
CCL/GR

Permanent Datum
Log Measured from
Drilling Measured from

Date	MARCH 08/09/10, 2002
Run No.	ONE
Depth-Driller	3283.0
Depth-Logger	3282.0
Btm.Log Interval	3283.0
Top Log Interval	2800.0
Fluid in Hole	8.6% KCL WATER
Fluid Level	FULL
Max. Hole Temp.	N/A
Equipment No.	1
Location	ORANGE PRAIRIE
Recorded By	K. ESLINGER
Witnessed By	L. GERSON

Run No.	Bit From	Bit To	Casing Driller	Casing Logger	Bit Size
ONE	SURFACE	3283.0	114.3 mm	3283.0 m	88.9 mm

No.	Type	Amount	Location
1	TUBING	2800.0 m	SURFACE
2			
3			
4			
5			
6			
7			
8			
9			
10			

Density	Viscosity	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source of Rmf & Rmc
1000 kg/m3	s/L		ml/30min		ohm-m @ °C	ohm-m @ °C	ohm-m @ °C	
1000.0	0.0	0.0	0.0	FLOWLINE	0.000 @ 0.0	0.000 @ 0.0	0.000 @ 0.0	

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	CASING	114.3 mm	0.0	H-40	SURFACE

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	TUBING	73.0 mm	0.0	J-55	SURFACE

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	CEMENT RETAINER				

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	TUBING	73.0 mm	0.0	J-55	SURFACE

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	PACK, BAKER, Type FB1				

Depth to Bottom: 3283.0 m
Depth to Driller: 3282.0 m

ALL INTERPRETATIONS OR OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND WILL NOT, GUARANTEE THEIR ACCURACY OR CORRECTNESS. WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

RECORDED CASING AND TUBING DATA

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	CASING	114.3 mm	0.0	H-40	SURFACE

PERFORATION DATA

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	TUBING	73.0 mm	0.0	J-55	SURFACE

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	CEMENT RETAINER				

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	TUBING	73.0 mm	0.0	J-55	SURFACE

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	PACK, BAKER, Type FB1				

Depth to Bottom: 3283.0 m
Depth to Driller: 3282.0 m

Sky Vi Characteristics
Typical Well Site Installation

Overall Length 9.1 m
Drop Dart to Bottom Shot 6.0 m
CCL to Top Shot 0.0 m

Date 03/10/02
Gun O.D. 88.9 mm
Charge Type TITAN
Gross Interval 13.0 m
Phasing 60 Degrees
Decentralized NO

Run No.	Top Log Interval	Btm. Log Interval	Hole Size	Casing Type	Size	Wt.	Grade	Top
ONE	2800.0 m	3283.0 m	88.9 mm	CASING	114.3 mm	0.0	H-40	SURFACE

CCL AT FIRING DEPTH

3025

CASING COLLAR

3050

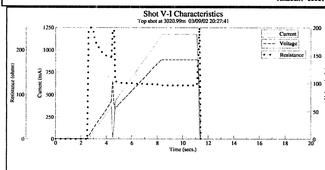
BEFORE GUN #02	DURING GUN #02
-1000 Millivolts 1000	-1000 Millivolts 1000
TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000

START DEPTH: 3060.1 DIRECTION: UP DATE: 03/09/2002 TIME: 23:40 MODE: ORIGINAL

VERSION: 2002.01.08.S4

Shot V-I Characteristics

Top shot at 3020.99m 03/09/02 20:27:41



Sat Mar 9 20:37:05 2002 — Job # 10014190

Date	03/09/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 4.1 m

Top Shot to Bottom Shot 3.0 m

CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
17	52	3024.0	3021.0

REMARKS

SHOT PROPOSED PERFRADTIONS FROM 3021.0 m TO 3024.0 m.

VERSION 2002.01.08.S4

10014190

FINISH DEPTH: 2988.3 Meters DIRECTION: UP DATE: 03/09/2002 TIME: 20:41 MODE: ORIGINAL

TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000
BEFORE GUN #01	DURING GUN #01
-1000 Millivolts 1000	-1000 Millivolts 1000

CCL AT FIRING DEPTH

3025

CASING COLLAR

3050

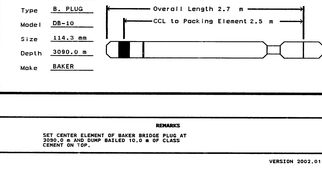
BEFORE GUN #01	DURING GUN #01
-1000 Millivolts 1000	-1000 Millivolts 1000
TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000

START DEPTH: 3060.1 DIRECTION: UP DATE: 03/09/2002 TIME: 20:41 MODE: ORIGINAL

VERSION: 2002.01.08.S4

Shot V-I Characteristics

Top shot at 3000.00m 03/08/02 18:55:27



Fri Mar 8 20:16:30 2002 — Job # 10014190

Date	03/08/02
Type	B. PLUG
Model	DB-10
Size	114.3 mm
Depth	3090.0 m
Make	BAKER

Overall Length 2.7 m

CCL to Packing Element 2.5 m

REMARKS

SET CENTER ELEMENT OF BAKER BRIDGE PLUG AT 3090.0 m AND DUMP BAILED 10.0 m OF CLASS CEMENT ON TOP.

VERSION 2002.01.08.S4

10014190

FINISH DEPTH: 2988.8 Meters DIRECTION: UP DATE: 03/08/2002 TIME: 19:18 MODE: ORIGINAL

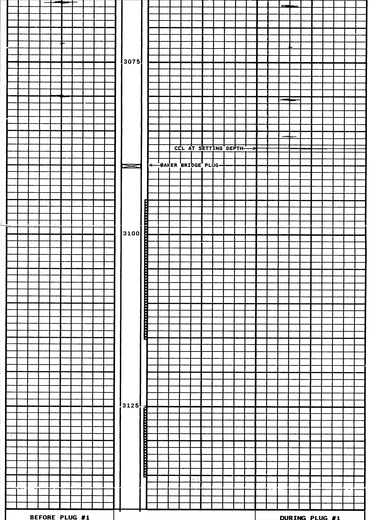
TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000
BEFORE PLUG #1	DURING PLUG #1
-1000 Millivolts 1000	-1000 Millivolts 1000

3000

3025

CASING COLLAR

3050



BEFORE PLUG #1		DURING PLUG #1	
-1000 Millivolts 1000		-1000 Millivolts 1000	
TENSION		TENSION	
0 Kilograms 5000		0 Kilograms 5000	

START DEPTH: 3140.0 DIRECTION: UP DATE: 03/08/2002 TIME: 19:16 MODE: ORIGINAL

VERSION: 2002.01.08.54

REMARKS

RAN A 95.6 mm GUAGE RING DOWN TO A DEPTH OF 3094.0 m.

VERSION 2002.01.08.54

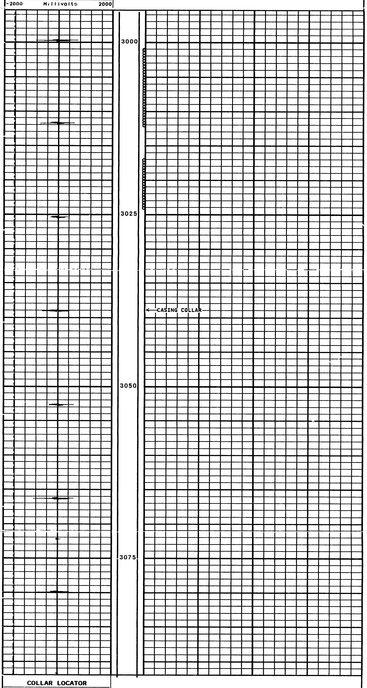
GUAGE RING

10014190 SHO20

FINISH DEPTH: 2995.9 Meters DIRECTION: UP DATE: 03/08/2002 TIME: 18:52 MODE: ORIGINAL
RECOMPUTED DATE: 03/08/2002 TIME: 18:52

TENSION
0 Kilograms 5000

COLLAR LOCATOR
-2000 Millivolts 2000



COLLAR LOCATOR
-2000 Millivolts 2000

TENSION
0 Kilograms 5000

START DEPTH: 3002.0 DIRECTION: UP DATE: 03/08/2002 TIME: 18:52 MODE: ORIGINAL
RECOMPUTED DATE: 03/08/2002 TIME: 18:52

10014190 SHO20

GUAGE RING

VERSION: 2002.01.08.54

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE PROVINCE NWT

COMPUTALOG

COMPUTALOG

CS400

COLLAR LOG

COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ANADAREKO BOVIE J-76
FIELD	BOVIE
PROVINCE	NORTHWEST TERRITORIES

N.E.B. COPY

LOCATION J-76
Perm. Datum: Ground Level Elev. 411.00 m
Log measured from R.B. - 6.00 m above Permanent Datum
Elev.: K.B. 417.00 G.L. 411.00

Other Services:
CBT SVA
CBT GR/CCL

API Serial No.	50-027-20031-00-00
Run No.	ONE
Date	March 14, 2002
Type Log	CCL
Depth-Driller	3053.0
Depth-Logger	3055.0
Btm.Log Interval	3022.0
Top Log Interval	2952.0
Fluid in Hole	3% KCL WATER
Fluid Level	FULL
Bit Size (mm)	N/A
Type Fluid	N/A
Location	GRANDE PRAIRIE
Recorded By	S. ELLIOTT
Witnessed By	L. LARSON

Shot Density	No. of Shots	Perf. Interval From	To
4	36	2972.0	2976.5
4	36	2978.5	2984.0
4	36	2981.0	2988.0

Run No.	Tool Type	Log No.
ONE	CCL	02014102
ONE	CASING COLLAR LOCATOR	02014102
ONE	CASING COLLAR LOCATOR	02014102
ONE	CASING COLLAR LOCATOR	02014102
ONE	CASING COLLAR LOCATOR	02014102
ONE	CASING COLLAR LOCATOR	02014102

Gun Type EXPLOSIFIL ENDOC
Gun Size 88.9 mm 60 DEG
Tubing/Casing Gauge
Size mm Wt. kg/m From To
3½ 9.2 0.00 3022.00
7 29.76 0.00 SURFACE 2999.0
114.3 17.26 2799.0 2951.0

Casing Location

Casing	Tubing	Service	Type	Size	Depth
2994.0		Bridge Plug	BAKER	114.3 mm	2999.0 m
2914.4		Pump-Through			
2932.5		Cement Retainer			
2951.6		Cement	THERMAL D.O.		2999.0 m
2969.1			CEMENT		
2987.2					

Casing Collar Type 2¾ Short Type
Casing Shoe Size 95.6 mm

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SERVICE ORDER # 2014102
PRICE SCHEDULE # CS-2.5
AFE #

Shot Vol Characteristics
Top Shot = 2972.00m GR/CCL to Top Shot

Jobs Mon 25/03/2002

Date	02/14/02
Gun O.D.	88.9 mm
Charge Type	TITAN
Gram Weight	23 G.P.
Phasing	Degrees
Decentralized	NO

Shots	No. of Misfires	Interval
Shots Fired	36	2972.0
Misfires	0	2988.0

REMARKS

SHOT DEPTHS REFERENCED FROM
GR/CCL RUN #1
2972.0 TO 2976.5 m AND
2978.5 TO 2984.0 m AND
2981.0 TO 2988.0 m

VERSION 2002.01.08.54

TIME: 20:19

MODE: MEASURED

START DEPTH: 2980.0 DIRECTION: UP DATE: 03/14/2002

Jobs Mon 25/03/2002

Jobs Mon 25/03/2002

Date	02/14/02
Gun O.D.	88.9 mm
Charge Type	TITAN
Gram Weight	23 G.P.
Phasing	Degrees
Decentralized	NO

Shots	No. of Misfires	Interval
Shots Fired	36	2972.0
Misfires	0	2988.0

REMARKS

SHOT DEPTHS REFERENCED FROM
GR/CCL RUN #1
2972.0 TO 2976.5 m AND
2978.5 TO 2984.0 m AND
2981.0 TO 2988.0 m

VERSION 2002.01.08.54

TIME: 20:19

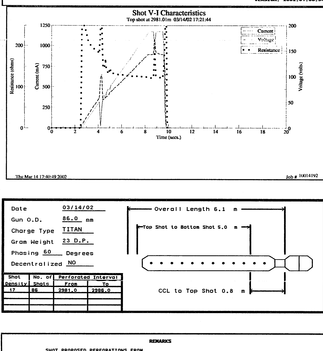
MODE: MEASURED

START DEPTH: 2980.0 DIRECTION: UP DATE: 03/14/2002

Kilograms 5000

START DEPTH: 2980.0 DIRECTION: UP DATE: 03/14/2002 TIME:20:33 MODE: ORIGINAL

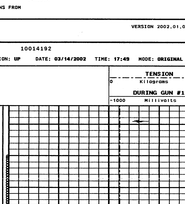
VERSION: 3003.01.08.54



Thu Mar 14 17:40:18 2002 Job # 10014192

Date	03/14/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Shot Density	No. of Shots	Perforations (Interval) From	To
12	68	2981.0	2988.0



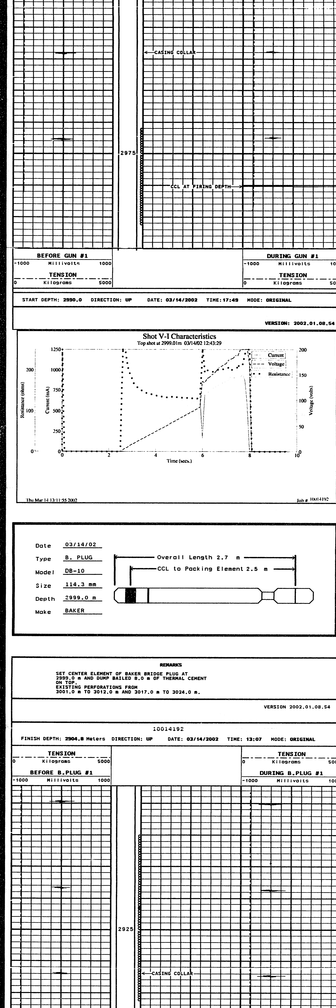
REMARKS

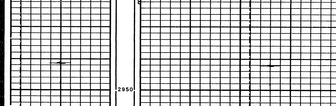
SHOT PROPOSED PERFORATIONS FROM
2981.0 M TO 2988.0 M.

VERSION 2002.01.08.54

10014192

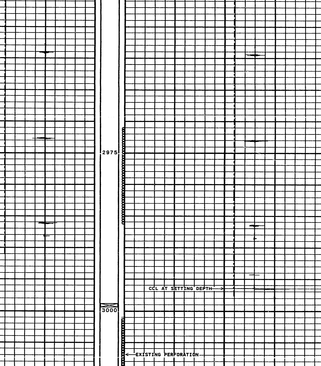
FINISH DEPTH: 2984.7 Meters DIRECTION: UP DATE: 03/14/2002 TIME: 17:49 MODE: ORIGINAL





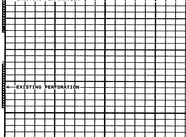
START DEPTH: 2980.0 DIRECTION: UP DATE: 03/14/2002 TIME:17:49 MODE: ORIGINAL

VERSION: 3003.01.08.54



Thu Mar 14 13:11:56 2002 Job # 10014192

Date	03/14/02
Type	B. PLUG
Model	DB-10
Size	114.3 mm
Depth	2999.0 m
Make	BAKER



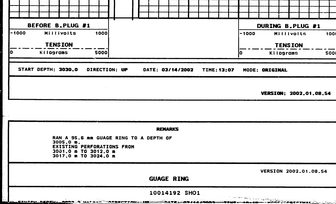
REMARKS

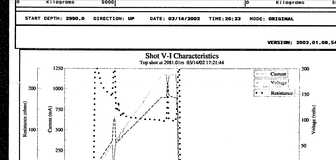
SET CENTER ELEMENT OF BAKER BRIDGE PLUG AT
2999.0 M AND DUMP BAILED 0.5 M OF THERMAL CEMENT
ON TOP.
EXISTING PERFORATIONS FROM
3001.0 M TO 3012.0 M AND 3017.0 M TO 3024.0 M.

VERSION 2002.01.08.54

10014192

FINISH DEPTH: 2984.8 Meters DIRECTION: UP DATE: 03/14/2002 TIME: 13:07 MODE: ORIGINAL





START DEPTH: 3030.0 DIRECTION: UP DATE: 03/14/2002 TIME:13:07 MODE: ORIGINAL

VERSION: 3003.01.08.54

REMARKS

RAN A 90.6 mm GUAGE RING TO A DEPTH OF
3030.0 M.
EXISTING PERFORATIONS FROM
3001.0 M TO 3012.0 M
3017.0 M TO 3024.0 M

VERSION 2002.01.08.54

GUAGE RING

10014192 SHO1

COMPUTALOG

C.I.A.O.D.

RECORD COPY

COLLAR LOG

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANDARKO BOYCE
C-(78)-

FIELD BOYCE

PROVINCE NORTHWEST TERRITORIES

LOCATION 60 [illegible] 120 [illegible] 1/4 SEC 33 TWP 51 RGE 6 W 4 MER
1/4 Section Line 1/4 Sec. Line
Permanent Datum: ELEV. K.B. 611.00
Log Measured From: K.B. 4.00 ABOVE PERM. DATUM
Drilling Measured From: K.B.

RUN	BOTTOM DRILLER	DRILL TIME	No. OF STDS.	Feet Drilled
ONE	10130			10130
TWO				
THREE				

CASING	SIZE	WEIGHT	GRADE	SET AT
CONDUCTOR	30"			40'
SURFACE	13 3/8"	61	K-55	1000'
INTERMEDIATE	9 5/8"	40	S-95	5000'
LINER	7"	29	S-95	10130'

TUBING	SIZE	WEIGHT	GRADE	SET AT

TYPE	WEIGHT	VISC.	WATER LOSS
SPUD MUD	9.0	35	
GEL-CHEM	9.6	40	10 cc
GEL-CHEM	10.0	45	8 cc
GEL-CHEM	10.2	45	6 cc
GEL-CHEM	10.3	45	5 cc

TYPE	WEIGHT	VISC.	WATER LOSS

TYPE	WEIGHT	VISC.	WATER LOSS

CORING	From	To	RECOVERY	From	To	RECOVERY
CORE #1	10130	10148	18'			
CORE #2						
CORE #3						
CORE #4						
CORE #5						

DRILLING EQUIPMENT	
DRILLING CONTRACTOR	CANADIAN DRILLING
RIG NUMBER	RIG 1
DRILLING FOREMAN	[illegible]
ENGINEER	[illegible]
MUD ENGINEER	[illegible]
LOGGING ENGINEER	[illegible]

SAMPLING	From	To	SAMPLES
SAMPLES #1	10130	10148	18'
SAMPLES #2			
SAMPLES #3			
SAMPLES #4			
SAMPLES #5			

SAMPLING METHOD	
SAMPLES WASHED	[illegible]
SAMPLES DRIED	[illegible]
SAMPLES PACKED	[illegible]
SAMPLES SHIPPED	[illegible]

SAMPLING METHOD	
SAMPLES WASHED	
SAMPLES DRIED	
SAMPLES PACKED	
SAMPLES SHIPPED	

SAMPLING METHOD	
SAMPLES WASHED	
SAMPLES DRIED	
SAMPLES PACKED	
SAMPLES SHIPPED	

DRILLING EQUIPMENT	
DRILLING CONTRACTOR	
RIG NUMBER	
DRILLING FOREMAN	
ENGINEER	
MUD ENGINEER	
LOGGING ENGINEER

CCL AT FIRING DEPTH

2900

CASING COLLAR

2925

2950

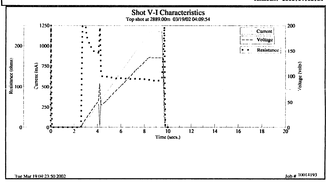
BEFORE GUN #7	DURING GUN #7
-1000 Millivolts 1000	-1000 Millivolts 1000
TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000

START DEPTH: 2950.9 DIRECTION: UP DATE: 03/19/2002 TIME: 08:38 MODE: ORIGINAL

VERSION: 2002.01.08.54

Shot V-I Characteristics

Top shot at 2889.00m 03/19/02 04:09:54



Tue Mar 19 04:23:30 2002 Job # 10014193

Date	03/19/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 6.1 m

Top Shot to Bottom Shot 5.0 m

CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
17	85	2889.2	2894.2

REMARKS

SHOT PROPOSED PERFORATIONS FROM 2889.2 M TO 2894.2 M.
EXISTING PERFORATIONS FROM 2910.0 M TO 2939.0 M.

VERSION: 2002.01.08.54

10014193

FINISH DEPTH: 2885.8 Meters DIRECTION: UP DATE: 03/19/2002 TIME: 04:31 MODE: ORIGINAL

TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000
BEFORE GUN #6 -1000 Millivolts 1000	DURING GUN #6 -1000 Millivolts 1000

CCL AT FIRING DEPTH

2875

2900

CASING COLLAR

2925

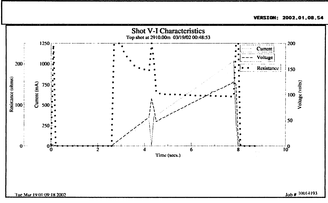
BEFORE GUN #6	DURING GUN #6
-1000 Millivolts 1000	-1000 Millivolts 1000
TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000

START DEPTH: 2949.1 DIRECTION: UP DATE: 03/19/2002 TIME: 04:31 MODE: ORIGINAL

VERSION: 2002.01.08.54

Shot V-I Characteristics

Top shot at 2910.00m 03/19/02 00:48:53



Tue Mar 19 01:09:18 2002 Job # 10014193

Date	03/19/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 6.1 m

Top Shot to Bottom Shot 5.0 m

CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
17	85	2910.2	2915.2

REMARKS

SHOT PROPOSED PERFORATIONS FROM 2910.0 M TO 2915.0 M.
EXISTING PERFORATIONS FROM 2915.0 M TO 2939.0 M.

VERSION: 2002.01.08.54

10014193

FINISH DEPTH: 2885.7 Meters DIRECTION: UP DATE: 03/19/2002 TIME: 01:15 MODE: ORIGINAL

TENSION 0 Kilograms 5000	TENSION 0 Kilograms 5000
BEFORE GUN #5 -1000 Millivolts 1000	DURING GUN #5 -1000 Millivolts 1000

2875

CASING COLLAR

2900

CCL AT FIRING DEPTH

2925

BEFORE GUN #5
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

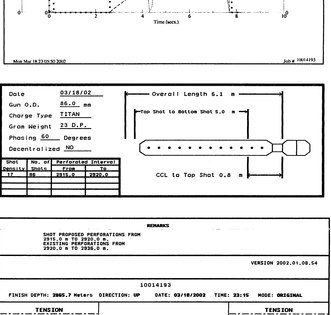
DURING GUN #5
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

START DEPTH: 2949.1 DIRECTION: UP DATE: 03/19/2002 TIME:01:14 MODE: ORIGINAL

VERSION: 2002.01.08.54

Shot V-I Characteristics

Top shot at 2913.8m 03/18/02 22:52:47



Mon Mar 18 23:01:50 2002 Job # 10014193

Date	03/18/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 6.1 m
Top Shot to Bottom Shot 5.0 m
CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
17	88	2910.8	2920.4

REMARKS

SHOT PROPOSED PERFORATIONS FROM
2920.0 M TO 2921.0 M.
EXISTING PERFORATIONS FROM
2920.0 M TO 2939.0 M.

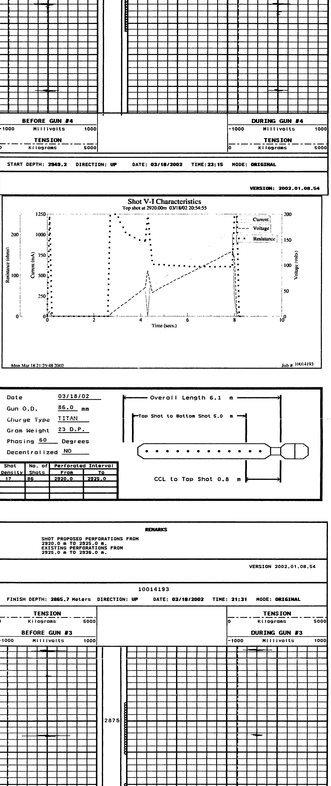
VERSION 2002.01.08.54

10014193

FINISH DEPTH: 2965.7 Meters DIRECTION: UP DATE: 03/18/2002 TIME: 23:15 MODE: ORIGINAL

TENSION
0 Kilograms 5000
BEFORE GUN #4
-1000 Millivolts 1000

TENSION
0 Kilograms 5000
DURING GUN #4
-1000 Millivolts 1000



BEFORE GUN #4
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

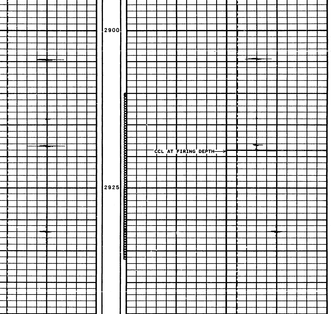
DURING GUN #4
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

START DEPTH: 2949.3 DIRECTION: UP DATE: 03/18/2002 TIME:23:15 MODE: ORIGINAL

VERSION: 2002.01.08.54

Shot V-I Characteristics

Top shot at 2920.60m 03/18/02 20:54:55



Mon Mar 18 21:29:48 2002 Job # 10014193

Date	03/18/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 6.1 m
Top Shot to Bottom Shot 5.0 m
CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
17	88	2910.8	2920.4

REMARKS

SHOT PROPOSED PERFORATIONS FROM
2920.0 M TO 2921.0 M.
EXISTING PERFORATIONS FROM
2920.0 M TO 2939.0 M.

VERSION 2002.01.08.54

10014193

FINISH DEPTH: 2965.7 Meters DIRECTION: UP DATE: 03/18/2002 TIME: 21:31 MODE: ORIGINAL

TENSION
0 Kilograms 5000
BEFORE GUN #3
-1000 Millivolts 1000

TENSION
0 Kilograms 5000
DURING GUN #3
-1000 Millivolts 1000

BEFORE GUN #3
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

DURING GUN #3
-1000 Millivolts 1000
TENSION
0 Kilograms 5000

START DEPTH: 2950.1 DIRECTION: UP DATE: 03/18/2002 TIME:21:31 MODE: ORIGINAL

VERSION: 2002.01.08.54

Shot V-I Characteristics

Top shot at 2933.00m 03/18/02 18:11:51

Mon Mar 18 20:12:39 2002 Job # 10014193

Date	03/18/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 7.1 m
Top Shot to Bottom Shot 6.0 m

Shot Density	No. of Shots	Perforated Interval From	To
12	120	2925.0	2931.0

CCL to Top Shot 0.8 m

REMARKS

SHOT PROPOSED PERFORATIONS FROM
2925.0 M TO 2931.0 M.
EXISTING PERFORATIONS FROM
2931.0 M TO 2936.0 M.

VERSION 2002.01.08.54

10014193

FINISH DEPTH: 2965.9 Meters DIRECTION: UP DATE: 03/18/2002 TIME: 20:12 MODE: ORIGINAL

TENSION Kilograms 0 5000

BEFORE GUN #2 -1000 Millivolts 1000

DURING GUN #2 -1000 Millivolts 1000

TENSION Kilograms 0 5000

2875

CASING COLLAR

2900

2925

CCL AT FIRING DEPTH

BEFORE GUN #2 -1000 Millivolts 1000

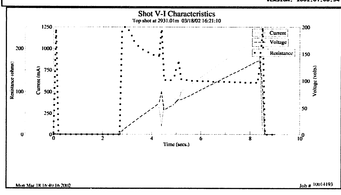
TENSION Kilograms 0 5000

DURING GUN #2 -1000 Millivolts 1000

TENSION Kilograms 0 5000

START DEPTH: 2949.5 DIRECTION: UP DATE: 03/18/2002 TIME:20:12 MODE: ORIGINAL

VERSION: 2002.01.08.54



Mon Mar 18 15:49:16 2002 Job # 10014193

Date	03/18/02
Gun O.D.	86.0 mm
Charge Type	TITAN
Gram Weight	23 D.P.
Phasing	60 Degrees
Decentralized	NO

Overall Length 6.1 m

Top Shot to Bottom Shot 5.0 m

CCL to Top Shot 0.8 m

Shot Density	No. of Shots	Perforated Interval From	To
12	65	2931.0	2939.0

REMARKS

SHOT PROPOSED PERFORATIONS FROM
2931.0 M TO 2939.0 M.

VERSION 2002.01.08.54

10014193

FINISH DEPTH: 2964.9 Meters DIRECTION: UP DATE: 03/18/2002 TIME: 16:37 MODE: ORIGINAL

TENSION Kilograms 0 5000

BEFORE GUN #1 -1000 Millivolts 1000

DURING GUN #1 -1000 Millivolts 1000

TENSION Kilograms 0 5000

2875

CASING COLLAR

2900

2925

CCL AT FIRING DEPTH

2950

BEFORE GUN #1 -1000 Millivolts 1000

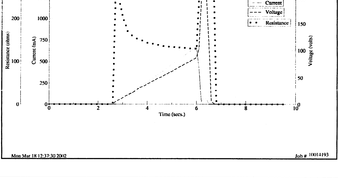
TENSION Kilograms 0 5000

DURING GUN #1 -1000 Millivolts 1000

TENSION Kilograms 0 5000

START DEPTH: 2951.1 DIRECTION: UP DATE: 03/18/2002 TIME: 16:37 MODE: ORIGINAL

VERSION: 2002.01.08.54



Mon Mar 18 17:37:30 2002 Job # 10014193

Date	03/18/02
Type	B. PLUG
Model	DB-10
Size	114.3 mm
Depth	2965.0 m
Make	BAKER

Overall Length 2.7 m

CCL to Packing Element 2.5 m

REMARKS

SET CENTER ELEMENT OF BAKER BRIDGE PLUG AT
2965.0 m AND DUMP BAILED 2.0 m OF THERMAL
CEMENT ON TOP.
PERFORATIONS FROM
2871.0 m TO 2880.0 m.

VERSION 2002.01.08.54

10014193

FINISH DEPTH: 2964.8 Meters DIRECTION: UP DATE: 03/18/2002 TIME: 13:11 MODE: ORIGINAL

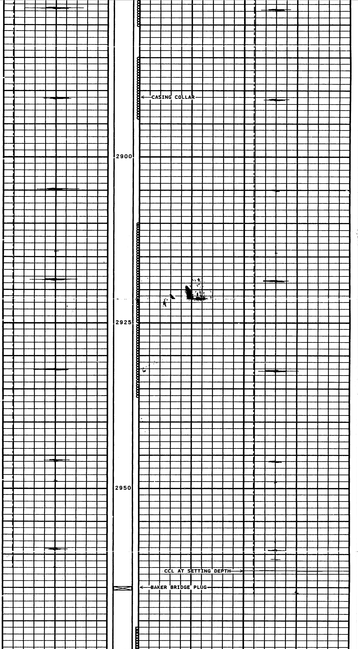
TENSION Kilograms 0 5000

BEFORE PLUG #1 -1000 Millivolts 1000

DURING PLUG #1 -1000 Millivolts 1000

TENSION Kilograms 0 5000

2875



BEFORE PLUG #1	DURING PLUG #1
-1000 Millivolts 1000	-1000 Millivolts 1000
TENSION	TENSION
0 Kilograms 5000	0 Kilograms 5000

START DEPTH: 2990.0 DIRECTION: UP DATE: 03/10/2002 TIME:12:11 MODE: ORIGINAL

VERSION: 2002.01.08.54

REMARKS

RAN A 95.6 mm GUAGE RING DOWN TO A DEPTH OF 2990.0 m. LOGGING PERFORMED FROM 2977.0 m TO 2898.0 m.

VERSION 2002.01.08.54

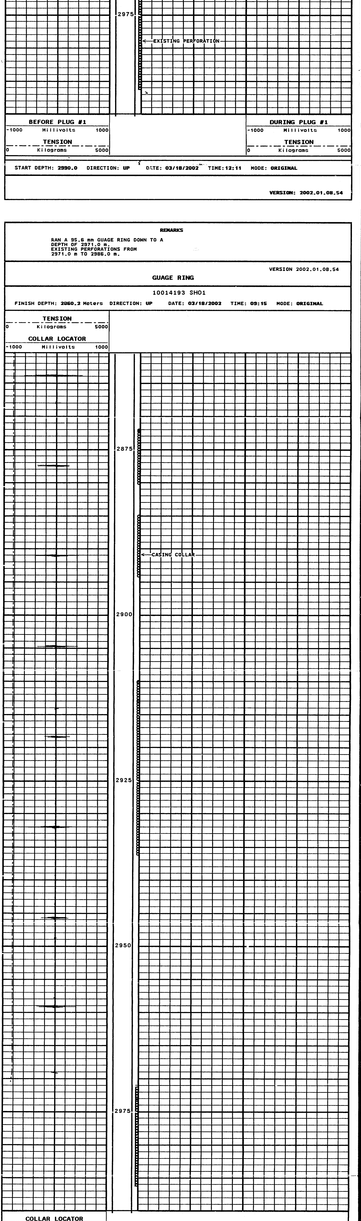
GUAGE RING

10014193 SH01

FINISH DEPTH: 2898.2 Meters DIRECTION: UP DATE: 03/10/2002 TIME: 09:15 MODE: ORIGINAL

TENSION
0 Kilograms 5000

COLLAR LOCATOR
-1000 Millivolts 1000



COLLAR LOCATOR
-1000 Millivolts 1000

TENSION
0 Kilograms 5000

START DEPTH: 2970.4 DIRECTION: UP DATE: 03/10/2002 TIME:09:05 MODE: ORIGINAL

10014193 SH01

GUAGE RING

VERSION: 2002.01.08.54

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE PROVINCE NWT

COMPUTALOG

COMPUTALOG
Wellbore Knowledge and Solutions

N.E.B. COPY

PRODUCTION PROFILE

Company	PARAMOUNT RESOURCES LTD.
Well	BOVIE J-76
Field	BOVIE LAKE
Country	CANADA
State/Prv	NW. TERR.
Location	J-76
	300J760020122450
Other Services	NONE

Permanent Datum	GROUND LEVEL	Elevation	411.0
Log Measured From	K.B.		6.0 m ABOVE PERM. DATUM
Drilling Measured From	K.B.		

Elevation
G.L. 411.0
G.F. 411.0
D.F. 411.0

Date	MARCH 31, 2002
Run Number	ONE
Type Log	CFJ-TMP-CCL-GR-TLM
Depth Driller	3051.0
Depth Logger	3051.0
Bottom Logged Interval	3050.0
Top Log Interval	2775.00
Fluid in Hole	SEAWATER
Salinity Level	68kG
Max. Recorded Temp.	
Estimated Cement Top	

Bit Size	
Equipment Number	e031
Location	GRANDE PRAIRIE
Recorded By	S.JOHNSTON
Witnessed By	LARSON

Gun Type	
Gun Size	

Casing Record				Liquid Record		Other Services			
Size mm	Wt. kg/m	From	To	Type	Density	Type	Size	Depth	
73.0		SURFACE	2681.8			Bridge Plug			
89.0	N/R	2681.8	2985.0	Prod. Fluids		Perf. Packer			
						Cement Ret.			

Tubing Record				Cement Job			
Tubing String	Size mm	Wt. kg/m	Top	Bottom			
Prod. String	114.3	23.80	SURFACE	2681.8			
Production Inner String	114.3	17.26	SURFACE	2658.0			
Other	114.3	17.26	2729.0	3053.0			
Open Hole							

All interpretations are opinions based on inferences from electrical or other measurements, and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current Price Schedule.

LOG CORRELATED TO COMPUTALOG SECTOR BOND LOG, DEFLECTION	SERVICE ORDER # 1000555
INTERVALS MEASURED FROM BOTTOM.	RUN ON MARCH 03, 2002
INTERVALS MEASURED FROM 3053.0 MD, 3053.0 TVD (KB)	1000-3200 kPA, SPUN IN WATER AND SHUT IN
PRODUCTION RATES 3.5E^3 /D, 0 m^3/day TOTAL GAS PRODUCTION 0 E^3	WATER PRODUCTION 0 TO SURF

Recorded	Bonnery	
Edited	Bonnery	
Plotted	Bonnery	
QA	Bonnery	
Approved	Bonnery	

Recorded	Bonnery	
Edited	Bonnery	
Plotted	Bonnery	
QA	Bonnery	
Approved	Bonnery	

COMPUTALOG

MERGED DOWN FLOWMETER PASSES

Database File: paraout.db
Dataset Pathname: pass4@1
Presentation Format: merged
Dataset Creation: Thu Mar 21 14:00:46 2002
Charted by: Depth in Meters scaled 1:240

Flowmeter #1 Down (rps)
Flowmeter #2 Down (rps)
Flowmeter #3 Down (rps)
Flowmeter #4 Down (rps)
Gamma Ray (gAPI)
Collar Locator
Line Speed #1 (m/min)
Line Speed #2 (m/min)
Line Speed #3 (m/min)
Line Speed #4 (m/min)

3075
3050
3025
3000
2975
2950

COMPUTALOG

MERGED UP FLOWMETER PASSES

Database File: paraout.db
Dataset Pathname: pass3@1
Presentation Format: merged
Dataset Creation: Thu Mar 21 13:41:02 2002
Charted by: Depth in Meters scaled 1:240

Flowmeter #1 Up (rps)
Flowmeter #2 Up (rps)
Flowmeter #3 Up (rps)
Flowmeter #4 Up (rps)
Gamma Ray (gAPI)
Collar Locator
Line Speed #1 (m/min)
Line Speed #2 (m/min)
Line Speed #3 (m/min)
Line Speed #4 (m/min)

3075
3050
3025
3000
2975
2950

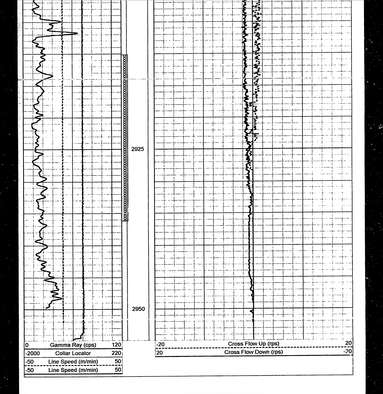
COMPUTALOG

CROSS FLOW CHECK

Database File: paraout.db
Dataset Pathname: pass4@1
Presentation Format: merged
Dataset Creation: Thu Mar 21 13:14:08 2002
Charted by: Depth in Meters scaled 1:240

Cross Flow (1/h)
Cross Flow Down (rps)
Gamma Ray (gAPI)
Collar Locator
Line Speed #1 (m/min)
Line Speed #2 (m/min)

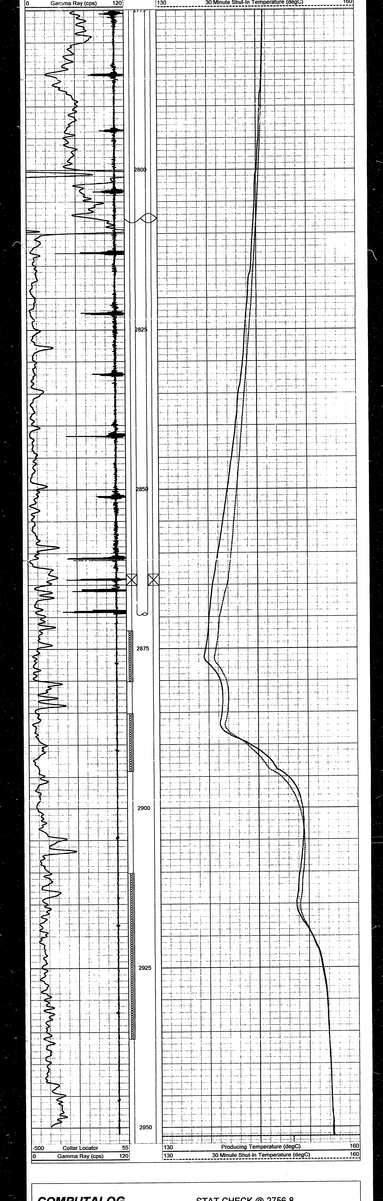
3075
3050
3025
3000
2975
2950



COMPUTALOG Wellbore Knowledge and Solutions

MERGED TEMPERATURE PASSES

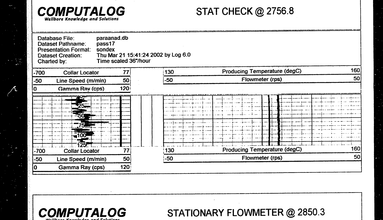
Database File: parasnad.db
Dataset Pathname: run30merge1
Presentation Format: mwtemp
Dataset Creation: Sat Mar 23 13:22:47 2002
Charted by: Depth in Meters scaled 1:240



COMPUTALOG Wellbore Knowledge and Solutions

STAT CHECK @ 2756.8

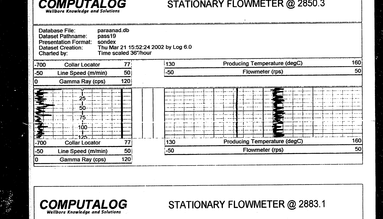
Database File: parasnad.db
Dataset Pathname: pass19
Presentation Format: sondex
Dataset Creation: Thu Mar 21 15:41:24 2002 by Log 6.0
Charted by: Time scaled 36"/hour



COMPUTALOG Wellbore Knowledge and Solutions

STATIONARY FLOWMETER @ 2850.3

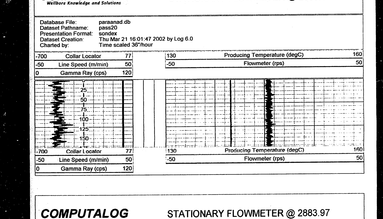
Database File: parasnad.db
Dataset Pathname: pass19
Presentation Format: sondex
Dataset Creation: Thu Mar 21 15:52:24 2002 by Log 6.0
Charted by: Time scaled 36"/hour



COMPUTALOG Wellbore Knowledge and Solutions

STATIONARY FLOWMETER @ 2883.1

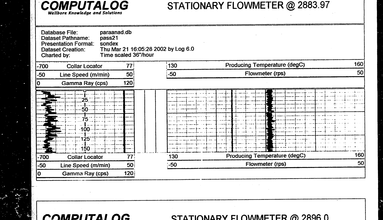
Database File: parasnad.db
Dataset Pathname: pass20
Presentation Format: sondex
Dataset Creation: Thu Mar 21 16:01:47 2002 by Log 6.0
Charted by: Time scaled 36"/hour



COMPUTALOG Wellbore Knowledge and Solutions

STATIONARY FLOWMETER @ 2883.97

Database File: parasnad.db
Dataset Pathname: pass21
Presentation Format: sondex
Dataset Creation: Thu Mar 21 16:05:28 2002 by Log 6.0
Charted by: Time scaled 36"/hour



COMPUTALOG Wellbore Knowledge and Solutions

STATIONARY FLOWMETER @ 2896.0

Database File: parasnad.db
Dataset Pathname: pass22
Presentation Format: sondex
Dataset Creation: Thu Mar 21 16:10:42 2002 by Log 6.0
Charted by: Time scaled 36"/hour

COMPUTALOG Wellbore Knowledge and Solutions

PRODUCTION PROFILE

COPY

Company	PARAMOUNT RESOURCES LTD.
Well	PARAMOUNT ANADARKO BOVIE
Field	BOVIE
Country	CANADA State/Prv. N.W.T.
Location	Other Services NONE

300J786020122400

Permanent Datum: GROUND LEVEL — Elevation: — Elevation
Log Measured From: K.B. 6.00 m — Above Perm. Datum — GL 411.0 m, KB 417.0 m
Drilling Measured From: K.B. — GL 411.0m

	Date	Run No.	Depth-Driller	Depth-Logger	Bottom Logged Interval	Top Logged Interval	Casing-Driller	Casing-Logger	Bit Size	Type Fluid in Hole	Density	Viscosity	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp	Rmf @ Meas. Temp	Rmc @ Meas. Temp	Source Rmf / Rmc	Rm @ BHT	Time Since Circ.	Max. Rec. Temp.	Equip. Location	Recorded By	Witnessed By
			m	m	m	m	m	m	mm		kg/m³	mPa·s				ohmm @ °C	ohmm @ °C	ohmm @ °C		ohmm @ °C	hr	°C			

Run No. | Bit Type | Type | Serial No. | Other Specs | Depth In | Depth Out

Casing Record: Size mm | Wgt. kg/m | Grade | Top | Bottom | Cement Top | Cement Bottom

Tubing Record: Size mm | Wgt. kg/m | Grade | Top | Bottom

Perforation Record: Zone | Top mm | Bottom mm | Shots/m | Date

Stimulation: Stage | Type | Date | Interval Top mm | Interval Bottom mm | Material Used | Amount

Comments: LOG CORRELATED TO DUAL INDUCTION-SFL SONIC RUN NO. ONE DATED 1978 MAY 15 @ 1300 hrs.
ALL DEPTH REFERENCED TO KELLY BUSHING @ 417.0m ASL
ALL TIMES ARE MOUNTAIN STANDARD TIME
LOG VERSION 1.0

Prepared For: PARAMOUNT RESOURCES LTD.
Prepared By: PEMBINA, ALBERTA
Drawn By: N.W.T.

Service | Engineer | Operator | Witness

COMPUTALOG MERGED TEMPERATURES / PRESSURES

Distance File: ...\Paramount\merged\
Recorded From: Anadarko P-35
Processed From: Anadarko P-35
Processed By: Computalog

Pressure (kPa) 0 to 20000 — Temperature (°C) 0 to 150 — Pressure (kPa) 0 to 20000

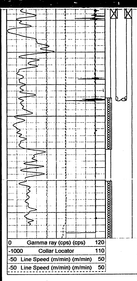
Pressure at 411.000 m — Temperature at 411.000 m — Pressure at 411.000 m

Pressure at 4.5 m/min — Temperature at 4.5 m/min — Pressure at 4.5 m/min

Pressure at 9.0 m/min — Temperature at 9.0 m/min — Pressure at 9.0 m/min

Pressure at 13.5 m/min — Temperature at 13.5 m/min — Pressure at 13.5 m/min

Pressure at

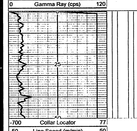


COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2872.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass55
Presentation Format: sondex
Dataset Creation: Sun Mar 31 17:22:42 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



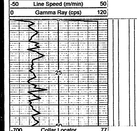
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2873.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass54
Presentation Format: sondex
Dataset Creation: Sun Mar 31 17:16:34 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



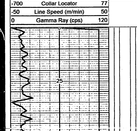
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2874.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass53
Presentation Format: sondex
Dataset Creation: Sun Mar 31 17:12:13 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



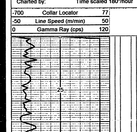
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2875.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass52
Presentation Format: sondex
Dataset Creation: Sun Mar 31 17:07:07 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



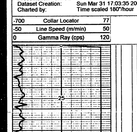
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2876.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass51
Presentation Format: sondex
Dataset Creation: Sun Mar 31 17:03:35 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



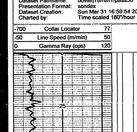
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2877.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass50
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:58:04 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



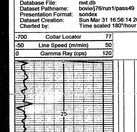
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2878.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass49
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:56:14 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



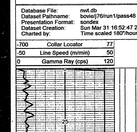
-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2879.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass48
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:52:47 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000



-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

COMPUTALOG
Wellbore Knowledge and Solutions

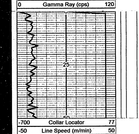
FM STAT @ 2881.0 mKB

Database File: nwt.db
Dataset Pathname: boxie|76\run1\pass47
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:46:12 2002 by Log 6.0
Charted by: Time scaled 180?/hour

-700	Collar Locator	77
-50	Line Speed (m/min)	50
0	Gamma Ray (cps)	120
0	Temperature (degC)	150
-100	Flowmeter (rps)	100
0	Quartz Pressure (kPa)	10000

-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

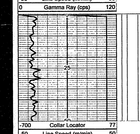
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2883.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass46
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:45:34 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

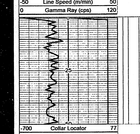
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2885.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass44
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:37:25 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

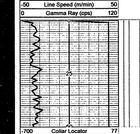
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2886.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass43
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:34:17 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

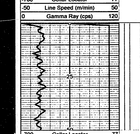
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2887.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass42
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:30:33 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

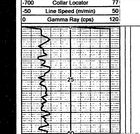
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2888.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass41
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:26:48 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

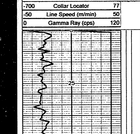
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2889.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass40
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:23:09 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

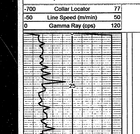
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2890.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass39
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:18:16 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

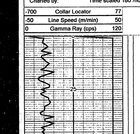
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2891.0 mKB

Database File: mxt.db
Dataset Pathname: bowie376run1pass38
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:06:56 2002 by Log 6.0
Charted by: Time scaled 180'/hour

-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000



-700 Collar Locator 77
-50 Line Speed (m/min) 50
0 Gamma Ray (cps) 120

0 Temperature (degC) 150
-100 Flowmeter (cps) 100
0 Quartz Pressure (kPa) 10000

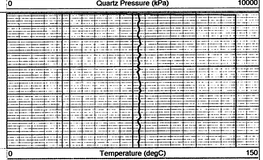
COMPUTALOG
Wellbore Knowledge and Solutions

FM STAT @ 2892.0 mKB

Database File: nwt.db
Dataset Pathname: bovie|76\run1\pass37
Presentation Format: sondex
Dataset Creation: Sun Mar 31 16:03:00 2002 by Log 6.0
Charted by: Time scaled 180"/hour

-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000



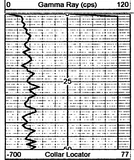


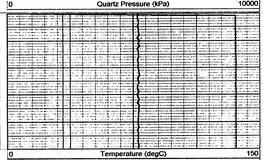
-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000

FM STAT @ 2893.0 mKB

Database File: nwt.db
Dataset Pathname: bovie|76\run1\pass36
Presentation Format: sondex
Dataset Creation: Sun Mar 31 15:56:03 2002 by Log 6.0
Charted by: Time scaled 180"/hour

-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000



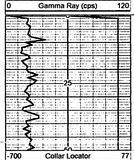


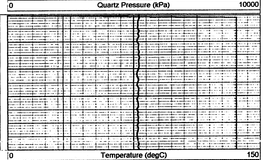
-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000

FM STAT @ 2893.5 mKB

Database File: nwt.db
Dataset Pathname: bovie|76\run1\pass35
Presentation Format: sondex
Dataset Creation: Sun Mar 31 15:51:41 2002 by Log 6.0
Charted by: Time scaled 180"/hour

-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000





-700	Collar Locator	77	0	Temperature (degC)	150
-50	Line Speed (m/min)	50	-100	Flowmeter (rps)	100
0	Gamma Ray (cps)	120	0	Quartz Pressure (kPa)	10000

PRT (Digital - Fast Response), Memory, 1 1/2" Calibration Report

Serial Number: 001044
Tool Model: SNOX
Performed: Thu Mar 21 17:19:51 2002

Reference (degC)	Reading (cps)
65.246	11677.000
176.180	29542.000
247.316	41163.000
320.630	53141.000
353.030	58471.000

Gamma Ray Calibration Report

Serial Number: 010076
Tool Model: 1-1/2
Performed: Sun Jun 03 08:55:43 2001

Calibrator Value: 1 cps

Background Reading: 0 cps
Calibrator Reading: 1 cps

Sensitivity: 10 cps/cps

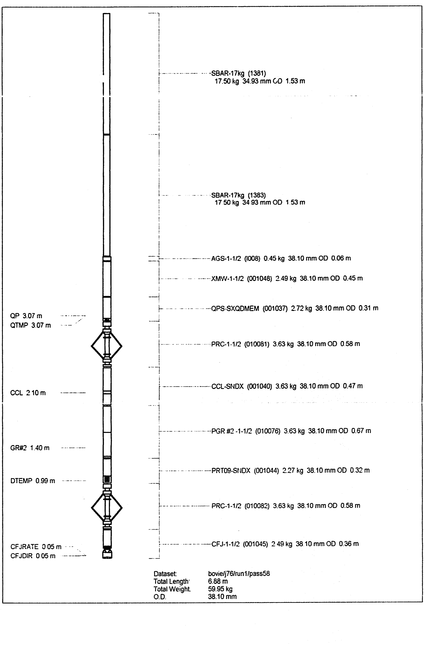
Quartzdyne Pressure Gauge Calibration Report

Serial Number: 001037
Tool Model: SXQDMEM
Gauge Model: QU195-B
Performed: 14 Jun 2000

	Pressure	Temperature
Order:	3	3
Prescale Algorithm:	1	1
Scaling Factor:	0.01	0.01
Offset Frequency:	20936	53772
Minimum:	0	25
Maximum:	16000	175
Cal Units:	psi	
Span:	1	
Zero:	0	

Coefficients:

A0: 12.6987	A1: -0.265992	A2: -0.0203464	A3: 1.01911e-05
B0: 44.2952	B1: -0.0219575	B2: 2.6668e-05	B3: -5.67305e-08
C0: -0.00204217	C1: 8.13636e-06	C2: -3.86252e-08	C3: 4.78259e-11
D0: 6.84671e-07	D1: 6.8134e-10	D2: 5.10101e-11	D3: 3.2184e-14



Dataset: bovie|76\run1\pass58
Total Length: 6.88 m
Total Weight: 59.95 kg
O.D. 38.10 mm

LITHOLOGY/ MUD

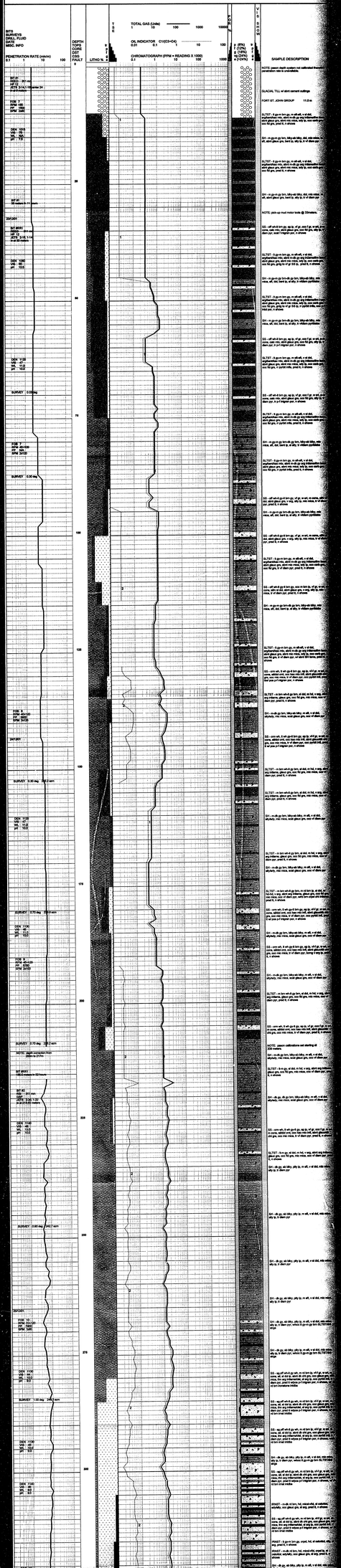
Continental Laboratories Ltd.

Hydrocarbon Well Log

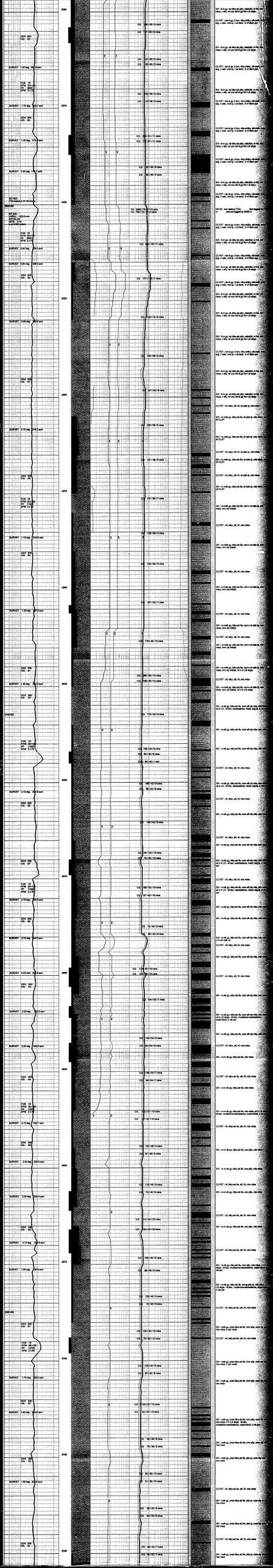
ISPG/ IGSP

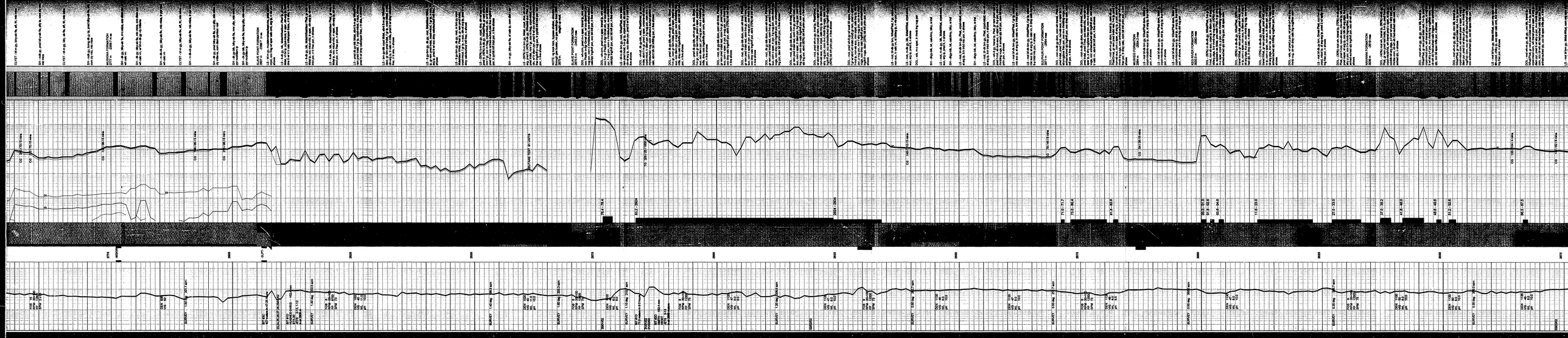
WELL NAME:	Paramount Anadarko Bovie J-76
LOCATION:	60-15'-44.43" N / 122-59'-40.95" W
COMPANY:	Paramount Resources Ltd.
PROVINCE:	Northwest Territories
FILE:	4295
ELEVATION K.B.:	417.30 m
HOLE SIZE:	444.5 mm from 1 m to 511.5 m
ELEVATION G.L.:	412.00 m
	311 mm from 511.5 m to 1028.0 m
LOGGING INTERVAL:	1 m to 3350 m
	222 mm from 1028.0 m to 2808.9 m
LOGGING DATES:	19/12/2001 to 06/02/2002
MUD SYSTEM:	mil gel slurry from: 1 m to: 511.5 m
PERSONNEL:	Jim Loader
	invert from: 511.5 m to: 2808.9 m
INSTRUMENTATION:	MP 2100, MTI #15
	gel chem from: 2808.9 m to: 3350 m

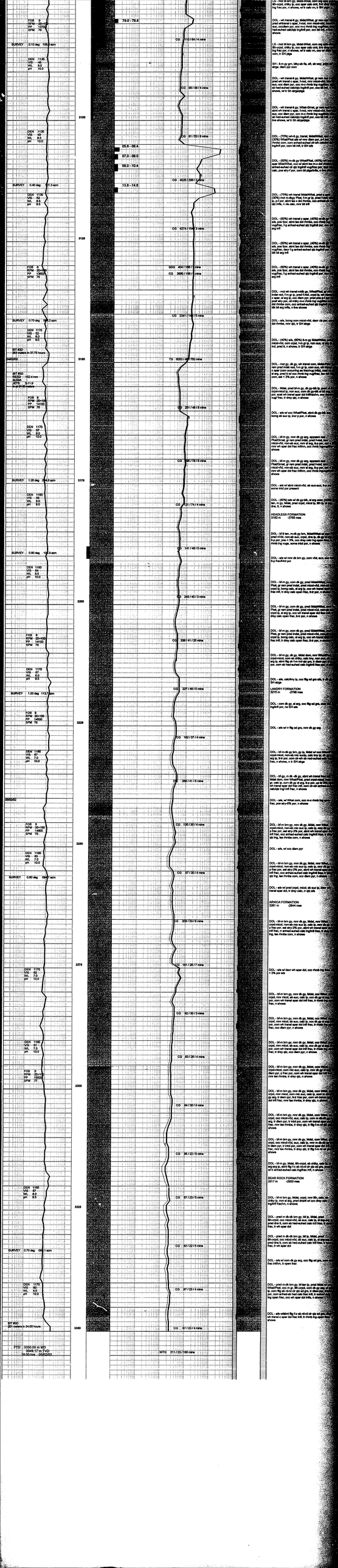
ALL LITHOLOGIC SYMBOLS ARE CANSTRAT COMPATIBLE



DOMINION
WELL 4
SECOND FORMATION
WELL 5
WELL 6






LS - mst sh grn gy, sbbly-frbrtl, slom slty, occ pred whlmd v sparc, occ rare mdstn lams, occ coaldetr ppr, occ mic rhmb lng vugh/por, occ wisp v sparc lt brn hc stn, occ blk ss, n shows
DOL - wh tnsmd d gy, MdstWhit, gr mss sft, occ pred whlmd v sparc, occ rare mdstn lams, occ coaldetr ppr, occ mic rhmb lng vugh/por, occ wisp v sparc lt brn hc stn, occ blk ss, n shows
LS - mst bf brn gy, MdstWhit, com arg sbbly-frbrtl, slom slty, occ rare mdstn lams, occ lt brn ss ppr, occ lt brn hc stn, bf d stn vn, occ lv stn/ppr com, tr SH plge
SH - fr-sy grn, blk-wh fis, sft, sb-wxy, sbbl pty slope, diam ppr ssm
DOL - wh tnsmd d gy, MdstWhit, gr mss sft, occ pred whlmd v sparc, occ rare mdstn lams, occ lt brn ss ppr, occ mic rhmb lng vugh/por, occ wisp v sparc lt brn hc stn, occ blk ss, n shows, wr tr SH stn/plge
DOL - wh tnsmd d gy, WhstClmst, gr mss sft, com wh tnsmd v sparc f-md, occ mdstn lams, occ lt brn ss ppr, occ rare lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows, wr tr SH stn/plge
DOL - (70%) wh-lt gy, tnsmd, MdstWhit, mod v (30%) WhstFlint ads w/ mrv diam dry por, occ mic rhmb vugh, occ wisp v sparc lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows
DOL - (60%) m-dk gy WhstFlint, (40%) wh tnsmd spar MdstWhit, occ w/ strat lam mx-dol mdstn, occ wisp v sparc lt brn hc stn, occ lv stn/ppr com, occ blk ss, occ pty-vy-f por, com bit pfgs/drlfs, n shows
DOL - (70%) wh tnsmd MdstWhit, pred v spar (30%) mot m-dkgy Flint, f-vn gr ls, pred f-md, occ ls, pr-f por, occ v sparc lt brn hc stn, occ wh/blk ss, occ lv stn/ppr com, occ blk ss, n shows, mrv bit slf
DOL - (60%) wh tnsmd v spar, (40%) m-dk gy Flint, occ mic rhmb, occ mdstn lams, occ lt brn ss ppr, occ rare lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows, f-g wh/red-ashed dp fr/gnfrd por, occ wisp v sg cvtf
DOL - (60%) wh tnsmd v spar, (40%) m-dk gy Flint, occ mic rhmb, occ mdstn lams, occ lt brn ss ppr, occ rare lt brn hc stn, occ lv stn/ppr com, occ blk ss, occ wisp v sparc lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows, f-g wh/red-ashed dp fr/gnfrd por, occ wisp v sg cvtf
DOL - (60%) wh tnsmd v spar, (40%) m-dk gy Flint, occ mic rhmb, occ mdstn lams, occ lt brn ss ppr, occ rare lt brn hc stn, occ lv stn/ppr com, occ blk ss, occ wisp v sparc lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows, f-g wh/red-ashed dp fr/gnfrd por, occ wisp v sg cvtf
DOL - mst wh tnsmd mdstn gy, WhstFlint, gr mss sft, com wh tnsmd v sparc, occ mdstn lams, occ lt brn ss ppr, occ lt brn hc stn, occ lv stn/ppr com, occ blk ss, occ wisp v sparc lt brn hc stn, occ lv stn/ppr com, occ blk ss, n shows, f-g wh/red-ashed dp fr/gnfrd por, occ wisp v sg cvtf, n live shows
DOL - wh, tvrng com mssd-vfrd, diam ppr ssm, occ rhmb, mrv dpy, n SH stgs
DOL - (40%) wh, (60%) lt-m gy MdstWhit, com mssd-frd, com crgst, fvn gr ls, non sus, sl dol, tr pr-f ind, pred ls, n shows, tr SH stgs
DOL - mst gy, dk gy, wh tnsml com, MdstWhit, com pred whlmd v sparc, occ rare mdstn lams, occ lt brn ss ppr, occ rare lt brn hc stn, occ lv stn/ppr com, occ blk ss, occ wisp v sparc

TOUR SHEETS

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH-WILSON PARTNERSHIP	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
AI	GM

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GM

YEAR 2002 | MONTH 2 | DAY 10

RIG NO.: 4

FUEL @ 06:00 HRS.

RIG 107 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC:

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	108	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WAIT ON SL	INSTALL SL				
MORN																						8.00					8.00
DAY	4.00																					3.00	1.00				8.00
EVE	8.00																										8.00
TOTAL	12.00																					11.00	1.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
			0.0	

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00	22	WAIT ON CASING SPEAR, AND NEW CASING SLIPS
800				

Notes: RIG UP FLOOR TO RUN SPEAR, TEAR OUT FLARE LINES

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH-WILSON PARTNERSHIP	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 107 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: RIG OUT

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	8.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP / MIDDLE / BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WAIT ON SE	INSTALL SU				
MORN																						8.00					8.00
DAY	4.00																					3.00	1.00				8.00
EVE	8.00																										8.00
TOTAL	12.00																					11.00	1.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 dan

WT. OF STRING | 1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS

INNER | OUTER | DULL | LOCATION | BEARINGS | GAUGE/mm | OTHER | REASON | R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ 0 | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	500

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1100	3.00	22	WAIT ON SPEAR
1100	1115	0.25	23	STAB CASING / REMOVE OLD SLIPS / INSTALL NEW SLIPS
				CASING HUNG @ 64,000 daN
1115	1200	0.75	23	INSTALL WELL HEAD WITH A.B.B. VITCO GRAY
1200	1600	4.00	1	RIG OUT / TEAR OUT FLOOR / PREPARE TO LOWER DERRICK
				PUMPS / ELECTRICAL / TANKS
				RIG RELEASED @ 12:00 FEBRUARY 10 2002 BY AL IRONSIDE

Notes: VISUAL INSPECTION OF DERRICK BY GEORGE McDONALD & BILL STOLEY

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH-WILSON PARTNERSHIP		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	LINE SPOOLER

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 107 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP | MIDDLE | BOTTOM

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WAIT ON SE	INSTALL SE				
MORN																						8.00					8.00
DAY	4.00																					3.00	1.00				8.00
EVE	8.00																										8.00
TOTAL	12.00																					11.00	1.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | Type | SERIAL NO. | JETS (mm) | DEPTH IN (m) | DEPTH OUT (m) | TOTAL METER | TOTAL HOURS

INNER | OUTER | DULL | LOCATION | BEARINGS | GAUGE/mm | OTHER | REASON | R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME | DENSITY kg/m3 | FUNNEL VIS s/l | W.L. cm/ FILCK | PH

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa) | PUMP NO. 1* LINER(mm) | SPM | PUMP NO. 2 LINER(mm) | SPM

152.0 | | 152.0 |

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	500

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2400	8.00	1	CONTINUE RIGGING OUT / LOWER DERRICK @ 20:00
				RIG DERRICK / SUB / TANKS / MANIFOLD FOR MOVE

Notes: DERRICK DOWN @ 20:00 / SHEIVES STILL STIFF , 1" ROPE BROKE STRIKING B

MINAULT , HE IS O.K. & LUCKY TO BE / BEAVER RENTALS LOADER DIED-DEAD B

4 hrs TO UNSTRING BLOCKS / SENT TO NISKU BY NUGGET OILFEILD HAULING

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	GEORGE McDONALD

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
AI	GM

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GM

YEAR 2002 | MONTH 2 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS | TYPE | SIZE

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25					0.25															8.00
DAY						1.50								6.50													8.00
EVE														8.00													8.00
TOTAL						9.00	0.25					0.25		14.50													24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
WT. OF D.C.		1000 dan
WT. OF STRING		1000 dan

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP

MAX HOOKLOAD 30

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	500	4.75	6	CONTINUE LAY DOWN PIPE
500	515	0.25	12	LAY DOWN CASING HANGER TOOL
515	615	1.00	6	RUNIN REMAINING STANDS
615	730	1.25	6	PICK UP KELLY & BREAK DOWN
730	800	0.50	6	LAY DOWN PIPE
800				

Notes: CHECK TONGS & LINES, BRAKE LINKAGE

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: NIPPLE DOWN

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25					0.25															8.00
DAY						1.50								6.50													8.00
EVE														8.00													8.00
TOTAL						9.00	0.25					0.25		14.50													24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
Type			
SERIAL NO.			
JETS (mm)			
DEPTH IN (m)			
DEPTH OUT (m)			
TOTAL METER			
TOTAL HOURS			

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	500

MACP: 0

MAX HOOKLOAD:

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	915	1.25	6	FINISH LAY DOWN
915	930	0.25	6	RIG OUT LAY DOWN MACHINE
930	1600	6.50	14	CHANGE ALL PIPE RAMS BACK TO 4.5"
				RIG OUT FLOW LINE / KATCH-KAN / KILL & SWEEP LINES
				ANNULAR / DOUBLE GATE / SINGLE GATE / SPOOLS

Notes:

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
Al	GM

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GM

YEAR 2002 | MONTH 2 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

	TOP	MIDDLE	BOTTOM
	80	80	80
	80	80	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25					0.25															8.00
DAY						1.50								6.50													8.00
EVE														8.00													8.00
TOTAL						9.00	0.25					0.25		14.50													24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
	TOTAL		m
WT. OF D.C.			1000 dan
WT. OF STRING			1000 dan

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
			0.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	0	8.00	14	RIG DOWN STACK, CHANGE RAMS

Notes: CHANGE LINERS & HEADS #2 PUMP

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH-WILSON PARTNERSHIP	
SURFACE LOCATION.: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL. JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES / NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																						8.00					8.00
DAY																											
EVE																											
TOTAL																						8.00					8.00

BIT RECORD

BIT/ MILLS	O.D.mm		
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
DRILLPIPE	STANDS		m
DRILLPIPE	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
			0.0	

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00	22	WAIT ON CASING SPEAR, AND NEW CASING SLIPS

Notes: RIG UP FLOOR TO RUN SPEAR, TEAR OUT FLARE LINES

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	GEORGE McDONALD

	Oper.	R.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)	Al	GM
(3) H2S Signs Posted(If Required)	Al	GM
(4) Well Licenses & Stick Diagram Posted	Al	GM
(5) Flare Lines Staked	Al	GM
(6) BOP Drills Preformed	Al	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 8

RIG NO.: 4

FUEL @ 08:00 HRS

RIG 180 | BOILER

WEATHER: TEMPERATURE | CONDITIONS COLD | WIND DIRECTION N.W. | ROAD CONDITION SNOW

SAFETY TOPIC: DRIFTING STANDS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE II

CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.50	7.00	0.25														0.25						8.00
DAY					6.00	1.00						0.75									0.25						8.00
EVE					1.00	4.00						2.00									0.25	0.75					8.00
TOTAL					7.50	12.00	0.25					2.75									0.75	0.75					24.00

DRILLING ASSEMBLY NO. (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 dan
WT. OF STRING			1000 dan

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1		PUMP NO. 2	
	LINER(mm)	SPM	LINER(mm)	SPM

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 18601

MAX HOOKLOAD 50

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	21	SAFETY MTG. DRIFTING STANDS
15	600	5.75	6	CONTINUE TRIP IN FLOW CHECK & FILL PIPE 1185m, 2335m, 2796m
600	615	0.25	7	RIG SERVICE
615	645	0.50	5	CIRC OUT AIR BEFORE LEAVING CASING
645	800	1.25	6	CONTINUE TRIP IN

Notes: CHECK BRAKE LINKAGE, TONGS & LINES

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)	Al	GM
(3) H2S Signs Posted(If Required)	Al	GM
(4) Well License & Slick Diagram Posted	Al	GM
(5) Flare Lines Staked	Al	GM
(6) BOP Drills Preformed	Al	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 8

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 180 | BOILER

WEATHER: TEMPERATURE | CONDITIONS COLD | WIND DIRECTION N,W. | ROAD CONDITION SNOW

SAFETY TOPIC: CEMENTING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS ? | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES | Morn. | Day | Eve.

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.50	7.00	0.25														0.25						8.00
DAY					6.00	1.00						0.75									0.25						8.00
EVE					1.00	4.00						2.00									0.25	0.75					8.00
TOTAL					7.50	12.00	0.25					2.75									0.75	0.75					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR) | BIT RECORD

BIT/ MILLS	O.D.mm	
DRILLPIPE	STANDS	
DRILLPIPE	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		1000 daN
WT. OF STRING		1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER | OUTER | DULL | LOCATION | BEARINGS | GAUGE mm | OTHER | REASON | R.O.P.

DRAG daN | TORQUE | FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME	930	1100	1415
DENSITY kg/m3	1180	1180	1180
FUNNEL VIS s/l	83	83	45
W.L. cm/ FILCK			
PH			
PVC	47.50	54.60	45.10

MUD MATERIALS USED

TYPE	QTY	UNITS
DESCO	7	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	260

MACP

MAX HOOKLOAD 69

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	900	1.00	6	RIH W/STDS.
900	1500	6.00	5	CIRCULATE CASING
1500	1515	0.25	21	SAFETY MTG.
1515	1600	0.75	12	CEMENT CASING
		1.00		
		0.75		

Notes:

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Slick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 8

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 180 | BOILER

WEATHER: TEMPERATURE | CONDITIONS COLD | WIND DIRECTION N.W. | ROAD CONDITION SNOW

SAFETY TOPIC: lay down pipe

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	80	80
MIDDLE	80	80
BOTTOM	80	80

RENTALS / SERVICES

	Morn.	Day	Eve.

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.50	7.00	0.25														0.25						8.00
DAY					6.00	1.00						0.75									0.25						8.00
EVE					1.00	4.00						2.00									0.25	0.75					8.00
TOTAL					7.50	12.00	0.25					2.75									0.75	0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	P.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 0

MAX HOOKLOAD 54

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1715	1.25	12	CEMENT CASING
1715	1815	1.00	5	REVERSE CIRCULATE
1815	1900	0.75	12	TEAR OUT CEMENT LINES & HEAD
1900	1945	0.75	22	RIG IN LAY DOWN MACHINE
1945	2000	0.25	21	SAFETY MTG.
2000	2400	4.00	6	LAY DOWN PIPE

Notes: CHECK BRAKE LINKAGE, TONGS & LINES

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS? YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25					0.25															8.00
DAY																											
EVE																											
TOTAL						7.50	0.25					0.25															8.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1		PUMP NO. 2	
	LINER(mm)	SPM	LINER(mm)	SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	500	4.75	6	CONTINUE LAY DOWN PIPE
500	515	0.25	12	LAY DOWN CASING HANGER TOOL
515	615	1.00	6	RUNIN REMAINING STANDS
615	630	0.25	6	PICK UP KELLY & BREAK DOWN
630	800	1.50	6	FINISH LAY DOWN PIPE

Notes: CHECK TONGS & LINES, BRAKE LINKAGE

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER 400

WEATHER: TEMPERATURE -28 | CONDITIONS BALMY | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: WIRELINE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TURNING ON LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC, DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | AM | x | PM

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25				7.75																8.00
DAY							0.25				7.75																8.00
EVE						1.75	0.25				0.50	4.50									0.50	0.50					8.00
TOTAL						1.75	0.75				16.00	4.50									0.50	0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COL	121	27.57 m
1	JAR	121	3.82 m
18	DRILL COL	121	164.58 m
			m
			m
			m
			m
			m
			m
108	DRILLPIPE	STANDS	3090.62 m
2	DRILLPIPE	SINGLES	19.10 m
	KELLY DOWN		13.10 m
	TOTAL		3350.00 m
	WT. OF D.C.		22 1000 daN
	WT. OF STRING		78 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME		300
DENSITY kg/m3		1170
FUNNEL VIS s/l		79
W.L. cm/ FILCK		
PH		10.0
		46.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		140.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	400

MACP 18601

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	800	7.75	11	LOG WITH BAKER - RUN #3 STAR-CBIL-GR
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENTS

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	DRIFTING CASING

	Ops.	R.M.
(1) Daily Walk Around Inspection	A	GM
(2) Detailed Inspection-Weekly (Using Check List)	A	GM
(3) H2S Signs Posted(If Required)	A	GM
(4) Well License & Slick Diagram Posted	A	GM
(5) Flare Lines Staked	A	GM
(6) BOP Drills Performed	A	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER 400

WEATHER

TEMPERATURE	-28
CONDITIONS	BALMY
WIND DIRECTION	CALM
ROAD CONDITION	ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2806.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES x NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Hours	Day	Evr

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	PERFING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25				7.75																8.00
DAY							0.25				7.75																8.00
EVE						1.75	0.25				0.50	4.50									0.50	0.50					8.00
TOTAL						1.75	0.75				16.00	4.50									0.50	0.50					24.00

DRILLING ASSEMBLY NO. (AT END OF TOUR)

BIT/ MILLS	O.D. mm	m
DRILLPIPE	STANDS	
DRILLPIPE	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		1000 daN
WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11.1 11.1 11.1
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.
2	6	CT	A	2	3.00	LT	TD	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 18601

MAX HOOKLOAD 8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1600	7.75	11	CONTINUE LOGGING W/ BAKER HUGHES

Notes:

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER 400

WEATHER: TEMPERATURE -28 | CONDITIONS BALMY | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: RUNNING CASING

LAST CASING STRING	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. IO	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: PIT | X | END

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REMP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25				7.75																8.00
DAY							0.25				7.75																8.00
EVE						1.75	0.25				0.50	4.50									0.50	0.50					8.00
TOTAL						1.75	0.75				16.00	4.50									0.50	0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm	
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
			FT
	DRILLPIPE	STANDS	FT
	DRILLPIPE	SINGLES	FT
KELLY DOWN			FT
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.											
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.		

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME	1730	2030
DENSITY kg/m3	1180	1180
FUNNEL VIS s/l	7ᵕ	8
W.L. cm/ FILCK	4.8	4.8
PH	9.5	9.5
PVC	45.80	47.50

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/C.R.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1		PUMP NO. 2	
	LINER(mm)	SPM	LINER(mm)	SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	250

MACP 18601

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1630	0.50	11	RIG OUT LOGGERS
1630	1700	0.50	12	RIG IN TONG HAND
1700	1730	0.50	22	MOVE MUDMOTOR OFF CATWALK,MOVE LOGGING TRUCK & PREPARE
1730				CATWALK FOR LAYDOWN MACHINE
1730	1830	1.00	12	RIG IN LAYDOWN MACHINE
1830	1845	0.25	21	SAFETY MTG.
1845	2145	3.00	12	RUN CASING
2145	2200	0.25	7	RIG SERVICE
2200	2215	0.25	21	SAFETY MTG.
2215	2400	1.75	6	RIH W/DP (STRAP & DRIFT)
2400				

Notes:

MORNING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	SAFETY TOPIC: LAYING DOWN COLLARS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)	Al	GM
(3) H2S Signs Posted(If Required)	Al	GM
(4) Well License & Slick Diagram Posted	Al	GM
(5) Flare Lines Staked	Al	GM
(6) BOP Drills Preformed	Al	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC , DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE | CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80 | TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CORC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.75	0.25																				8.00
DAY						1.75	0.25				4.50									1.25	0.25						8.00
EVE											8.00																8.00
TOTAL						9.50	0.50				12.50									1.25	0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COL	121	27.57 m
1	JAR	2	3.82 m
18	DRILL COL	121	164.58 m
			m
			m
			m
			m
			m
			m
108	DRILLPIPE	STANDS	3090.62m
2	DRILLPIPE	SINGLES	19.10 m
KELLY DOWN			13.10 m
TOTAL			3350.00 m
WT. OF D.C.			22 1000 daN
WT. OF STRING			78 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		140.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	390

MACP: 18601

MAX HOOKLOAD: 400

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE CHECK CROWN SAVER
15	545	5.50	6	PULL OUT OF HOLE TO LOG (STRAP OUT)
545	800	2.25	6	LAY DOWN B.H.A.
800				
				FLOW CHECKS @ 3347m,3188m,2550m,1607m,230m,& 0m

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION.: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	GM
(2) Detailed Inspection-Weekly (Using Check List)	A	GM
(3) H2S Signs Posted(If Required)	A	GM
(4) Well License & Stick Diagram Posted	A	GM
(5) Flare Lines Staked	A	GM
(6) BOP Drills Preformed	A	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: LOGGING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.75	0.25																				8.00
DAY						1.75	0.25				4.50									1.25	0.25						8.00
EVE											8.00																8.00
TOTAL						9.50	0.50				12.50									1.25	0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COL	121	27.57 m
1	JAR	2	3.82 m
18	DRILL COL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
108	DRILLPIPE	STANDS	3090.63m
2	DRILLPIPE	SINGLES	19.10 m
KELLY DOWN			13.10 m
TOTAL			3350.00 m
WT. OF D.C.			22 1000 daN
WT. OF STRING			78 1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETs (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3350.00				

Circ. Press (kPa)

PUMP NO. 1		PUMP NO. 2	
LINER(mm)	SPM	LINER(mm)	SPM
140.0		140.0	

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 18601

MAX HOOKLOAD 10

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	945	1.75	6	CONTINUE LAY DOWN BHA
945	1100	1.25	20	LAY DOWN DIRECTIONAL TOOLS
1100	1115	0.25	7	RIG SERVICE FT. BLIND RAM OUT OF HOLE C/ 8 SECS,FLOW CHECK
1115	1130	0.25	21	SAFETY MTG. HELD W/ LOGGERS
1130	1600	4.50	11	RIG UP TO & LOG W/ BAKER HUGHES
1600				LOG#1 HDIL-ML-ZDL-CN-MAC-GR-YCAL

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE

MONITOR FLUID LEVEL IN WELL BORE

DRAWORKS INSPECTION / FIXED OIL LEAKS

EXTRA DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	Opr.	R.M.

YEAR 2002 | MONTH 2 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY																											
EVE																											
TOTAL																											

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D./mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.	

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1		PUMP NO. 2	
	LINER(mm)	SPM	LINER(mm)	SPM

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	GEORGE McDONALD

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
AI	GM
AI	GM
AI	GM
AI	GM
AI	GM
AI	GM
AI	GM

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

GM
GM
GM
GM
GM

YEAR 2002 | MONTH 2 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: WIRELINE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. I.D	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	285	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.75	0.25																				8.00
DAY						1.75	0.25				4.50									1.25	0.25						8.00
EVE											8.00																8.00
TOTAL						9.50	0.50				12.50									1.25	0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COLL	121	27.57 m
1	JAR	2	3.82 m
18	DRILL COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
108	DRILLPIPE	STANDS	3090.62m
2	DRILLPIPE	SINGLES	19.10 m
KELLY DOWN			13.10 m
TOTAL			3350.00 m
WT. OF D.C.			22 1000 daN
WT. OF STRING			78 1000 daN
DRILLERS SIGNATURE			NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		140.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	400

MACP: 18601
MAX HOOKLOAD:

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2400	8.00	11	CONTINUE LOGGING W/ BAKER HUGHES
2400				LOG#2 STAR-CBIL-GR / MISRUN

Notes: CHECK CHAIN GAURDS,

MORNING SHIFT

LICENCE NO.: 193142 | WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD. | CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122 | UNIQUE I.D.: J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) — AL IRONSIDE

CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) — GEORGE McDONALD

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 5

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 220 | BOILER

WEATHER: TEMPERATURE -28 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	mi-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25			0.25																	8.00
DAY		7.75					0.25																				8.00
EVE		2.00			3.00	2.00														1.00							8.00
TOTAL		9.75			3.00	9.50	0.50			0.25										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	2.00 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
2	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COLL	121	27.58 m
1	JAR	121	3.82 m
18	DRILL COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
107	DRILLPIPE	STANDS	3062.00m
	DRILLPIPE	SINGLES	m
KELLY DOWN			5.81 m
TOTAL			3296.80 m
WT. OF D.C.		22	1000 dan
WT. OF STRING		75	1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	146.00
TOTAL HOURS	24.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan 2

TORQUE 124

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME	200	400	600
DENSITY kg/m3	1165	1165	1170
FUNNEL VIS s/l	63	62	62
W.L. cm/ FILCK	7.0	7.0	7.0
PH	10.0	10.0	10.0
P.V.T.	57.30	56.90	57.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3256.70	0.80	94.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3247.00	3295.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
14800	140.0	76	140.0	

REDUCED PUMP SPEED

5140 @ 3272 @ 40

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	410

MACP 18601

MAX HOOKLOAD 80

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	745	7.50	6	DRILL 152mm HOLE FROM 3247m TO 3295m
745	800	0.25	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	STAIRWAYS

	Opr.	F.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)	Al	GM
(3) H2S Signs Posted(If Required)	Al	GM
(4) Well License & Stick Diagram Posted	Al	GM
(5) Flare Lines Staked	Al	GM
(6) BOP Drills Preformed	Al	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 5

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 220 | BOILER

WEATHER: TEMPERATURE -28 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25			0.25																	8.00
DAY		7.75					0.25																				8.00
EVE		2.00			3.00	2.00														1.00							8.00
TOTAL		9.75			3.00	9.50	0.50			0.25										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PIN	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COLL	121	27.57 m
1	JAR	2	3.82 m
18	DRILL COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
108	DRILLPIPE	STANDS	3090.63m
1	DRILLPIPE	SINGLES	9.55 m
	KELLY DOWN		13.26 m
	TOTAL		3340.61 m
	WT. OF D.C.	22	1000 daN
	WT. OF STRING	78	1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	191.00
TOTAL HOURS	32.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.
								5.97

DRAG daN | 2UP<>3DOWN

TORQUE | 125

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	800	1300	1500
DENSITY kg/m3	1165	1165	1165
FUNNEL VIS s/l	65	67	70
W.L. cm/ FILCK	7.5	8.0	6.4
PH	10.0	9.5	9.5
PVT	57.10	57.40	57.40

MUD MATERIALS USED

TYPE	QTY	UNITS
CAUSTIC	1	SX
GEL	20	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3295.00	3340.00	D	20	20

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
15500	140.0	76	140.0	

REDUCED PUMP SPEED: 6270 @ 45 @ 3310

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 18877

MAX HOOKLOAD 82

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1045	2.75	2	DRILL 3295m - 3312m
1045	1100	0.25	7	RIG SERVICE FT. UPPER PIPE RAM C/ 8 SECS
1100	1600	5.00	2	DRILL 3312m - 3340m

Notes: CHECK BRAKE LINKAGE, TONGS & LINES,

EVENING SHIFT

LICENCE NO.: 193142	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	TONG SAFETY

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 5

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 220 | BOILER

WEATHER: TEMPERATURE -28 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): No. 2 | TYPE DFS | TYPE

CHANGE SCREENS | SEA | ON

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.50	0.25			0.25																	8.00
DAY		7.75					0.25																				8.00
EVE		2.00			3.00	2.00														1.00							8.00
TOTAL		9.75			3.00	9.50	0.50			0.25										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm		
1	STAB	152	0.20	m
1	MOTOR	121	7.17	m
1	FLOAT SUB	121	0.66	m
1	STAB	121	1.55	m
1	DOUBLE PIN	121	0.34	m
1	NMDC	121	9.53	m
1	TRANS SUB	121	2.13	m
1	NMDC	121	9.43	m
3	DRILL COLL	121	27.57	m
1	JAR	2	3.82	m
18	DRILL COLL	121	164.58	m
				m
				m
				m
				m
				m
				m
				m
108	DRILLPIPE	STANDS	3090.62	m
2	DRILLPIPE	SINGLES	19.10	m
	KELLY DOWN		13.10	m
	TOTAL		3350.00	m
	WT. OF D.C.		22	1000 daN
	WT. OF STRING		78	1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	201.00
TOTAL HOURS	34.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.
								5 m/hr

DRAG daN | 2UP<>3DOWN

TORQUE | 125

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1800
DENSITY kg/m3	1170
FUNNEL VIS s/l	80
W.L. cm/ FILCK	6.5
PH	10.0
PVT	57.70

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3333.00	0.70	65.1

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3340.00	3350.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
15500	140.0	76	140.0	

REDUCED PUMP SPEED: 6200 @ 45 @ 3340

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 18877

MAX HOOKLOAD 80

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1800	2.00	2	DRILL 3340m -3350m
1800	1945	1.75	5	CIRC UP BTM. HOLE SAMPLE FOR GEO
1945	2015	0.50	6	FLOW CHECK - PULL 5 STANDS
2015	2045	0.50	20	PICK UP KELLY-SURVEY-CHECK TEMP.-COOL DOWN M.W.D.
2045	2130	0.75	6	PULL OUT OF HOLE TO SHOE
2130	2200	0.50	20	PICK UP KELLY-SURVEY-CHECK TEMP.-COOL DOWN M.W.D.
2200	2245	0.75	6	RUN IN HOLE TO BOTTOM-
2245	2400	1.25	5	CIRCULATE TO CLEAN HOLE & GET BOTTOMS UP
2400				
				TRIP RECORD (WIPER TRIP)
				MEASURED 1.67m3-CALC.-1.47m3 -DIFF. .20m3

Notes: CHECK BRAKE LINKAGE, TONGS & LINES

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Preformed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 4

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE 28 | CONDITIONS | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: ICY FLOORS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | TOP 80

MIDDLE 80 | MIDDLE 80

BOTTOM 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.75				2.50	0.25													3.50							8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		16.75				2.50	0.75			0.50										3.50							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.mm	m
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
2	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
102	DRILLPIPE	STANDS	2918.85m
1	DRILLPIPE	SINGLES	9.63 m
KELLY DOWN			7.34 m
TOTAL			3163.00 m
WT. OF D.C.			22 1000 dan
WT. OF STRING			74 1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	15 15 15
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	14.00
TOTAL HOURS	1.75
DRAG dan	3
TORQUE	120
FILL m	1.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3142.30	0.70	86.2

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3149.00	3163.00	0	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
14500	140.0	76	140.0	

REDUCED PUMP SPEED

5600 @ 45 @ 3149

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	400

MACP 19165

MAX HOOKLOAD 75

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION ANNULAR C/O 46 secs
15	100	0.75	6	RUN IN HOLE WITH BIT # 3
100	130	0.50	20	PICK UP KELLY-FILL PIPE-PULSE TEST-SURVEY
130	200	0.50	6	RUN IN HOLE
200	315	1.25	20	PICK UP KELLY-SURVEY-FILL PIPE- COOL DOWN M.W.D.-CIRC. BOTT. UP
315	345	0.50	6	RUN IN HOLE
345	430	0.75	20	PICK UP KELLY-COOL DOWN M.W.D.
430	515	0.75	6	FINISH RUNNING PIPE
515	615	1.00	20	WASH TO BOTTOM(COOLING DOWN M.W.D. BETWEEN CONNECTIONS)
615	800	1.75	2	DRILL 152mm HOLE FROM 3149m TO 3163m
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	SAFETY TOPIC: FROSTBITE

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	GM
(2) Detailed Inspection-Weekly (Using Check List)	Al	GM
(3) H2S Signs Posted(If Required)	Al	GM
(4) Well License & Stick Diagram Posted	Al	GM
(5) Flare Lines Staked	Al	GM
(6) BOP Drills Preformed	Al	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 4

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE 28 | CONDITIONS | WIND DIRECTION CALM | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	0.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.75				2.50	0.25													3.50							8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		16.75				2.50	0.75			0.50										3.50							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PI	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COLL	121	27.58 m
1	JAR	121	3.82 m
18	DRILL COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
103	DRILLPIPE	STANDS	2947.43m
2	DRILLPIPE	SINGLES	18.84 m
	KELLY DOWN		13.26 m
	TOTAL		3206.72 m
	WT. OF D.C.	22	1000 daN
	WT. OF STRING	75	1000 daN

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	57.00
TOTAL HOURS	9.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.
								6 15

DRAG daN: 3UP<>3DOWN

TORQUE: 117

FILL m:

MUD RECORD

WATER BASED: X | OIL BASED:

TIME	800	1100	1400
DENSITY kg/m3	1170	1160	1160
FUNNEL VIS s/l	57	58	64
W.L. cm/ FILCK	9.0	9.0	8.5
PH	10.0	9.0	10.0
PVT	56.60	57.60	58.00

MUD MATERIALS USED

TYPE	QTY	UNITS
BIO-LOSE	6	SX
LIGNITE	2	SX
STAFLO	2	SX
CAUSTIC	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3174.90	1.20	94.6
3189.70	0.80	105.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3163.00	3206.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
14100	140.0	76	140.0	

REDUCED PUMP SPEED

5400 @ 43 @ 3168

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP: 18877

MAX HOOKLOAD: 77

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	2	DRILL 3163m - 3168m
845	900	0.25	7	RIG SERVICE FT. UPPER PIPE RAM C/ 8 SECS
900	1545	6.75	2	DRILL 3168m -3206m
1545	1600	0.25	10	ACCUMULATIVE SURVEY TIME
1600				

Notes: CHECK BRAKE LINKAGE, TONGS & LINES,
CHANGE OUT BREAKOUT LINE

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	GEORGE McDONALD

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	GM
(2) Detailed Inspection-Weekly (Using Check List)	AI	GM
(3) H2S Signs Posted(If Required)	AI	GM
(4) Well License & Stick Diagram Posted	AI	GM
(5) Flare Lines Staked	AI	GM
(6) BOP Drills Performed	AI	GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 2 | DAY 4

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE 28 | CONDITIONS | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: KELLY HOSE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | TOP 80

MIDDLE 80 | MIDDLE 80

BOTTOM 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		1.75				2.50	0.25													3.50							8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		16.75				2.50	0.75			0.50										3.50							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
1	STAB	152	0.20 m
1	MOTOR	121	7.17 m
1	FLOAT SUB	121	0.66 m
1	STAB	121	1.55 m
1	DOUBLE PIN	121	0.34 m
1	NMDC	121	9.53 m
1	TRANS SUB	121	2.13 m
1	NMDC	121	9.43 m
3	DRILL COLL	121	27.58 m
1	JAR	121	3.82 m
18	DRILL COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
105	DRILLPIPE	STANDS	3004.39m
1	DRILLPIPE	SINGLES	9.60 m
KELLY DOWN			5.82 m
TOTAL			3247.00 m
WT. OF D.C.			22 1000 dan
WT. OF STRING			75 1000 dan

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	3
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	REED
Type	SL53A
SERIAL NO.	MB5506
JETS (mm)	11 11 11
DEPTH IN (m)	3149.00
DEPTH OUT (m)	
TOTAL METER	98.00
TOTAL HOURS	16.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan | 2UP<>3DOWN

TORQUE | 118

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1900	2130	2330
DENSITY kg/m3	1170	1165	1165
FUNNEL V/S s/l	67	67	66
W.L. cm/ FILCK	6.0	7.0	7.0
PH	9.5	10.0	10.0
P.V.T.	58.20	58.00	57.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3218.60	1.00	113.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3206.00	3219.00	D	20	8
3219.00	3247.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
14500	140.0	76	140.0	

REDUCED PUMP SPEED

5600 @ 45 @ 3206

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	390

MACP | 0

MAX HOOKLOAD | 79

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE FT. LOWER PIPE RAM C/ 8 SECS
1615	2345	7.50	2	DRILL 152mm HOLE FROM 3206m TO 3247m
2345	2400	0.25	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK BRAKE LINKAGE, TONGS & LINES, SPRING LOCK ON BLOCKS

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 3

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 226 | BOILER 400

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: FROSTBITE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		3.00			1.50	3.00	0.25													0.25							8.00
EVE						6.75	0.25													1.00							8.00
TOTAL		10.50			1.50	9.75	0.75			0.25										1.25							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20
2	STAB	152	0.20
3	MOTOR	121	7.17
4	FLOAT SUB	121	0.66
2	STAB	121	1.55
6	DOUBLE PIN	121	0.34
7	NMDC	121	9.53
8	TRANS SUB	121	2.13
9	NMDC	121	9.43
10	9 D. COLLA	121	27.57
11	JAR	121	3.82
12	18 D. COLL	121	164.58
101	DRILLPIPE	STANDS	2889.90m
	DRILLPIPE	SINGLES	
KELLY DOWN			12.92
TOTAL			3130.00
WT. OF D.C.			22 1000 daN
WT. OF STRING			72 1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	2
SIZE (mm)	152.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR30T
SERIAL NO.	MH9520
JETS (mm)	13 13 13
DEPTH IN (m)	2885.00
DEPTH OUT (m)	
TOTAL METER	245.00
TOTAL HOURS	34.75

	INNER	OUTER	TYPE	LOCATION	BEARINGS	GAUGE	OTHER	REASON	T.O.P.
DRAG daN									
TORQUE									
FILL m									

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	200	400	630
DENSITY kg/m3	1135	1135	1130
FUNNEL VIS sec	48	49	52
W.L. cm/ FILCK	8.5	8.5	8.5
PH	10.0	10.0	9.5
PVT	58.00	57.30	57.60

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	15	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3084.10	0.10	108.8

METERS DRILLED

FROM	TO	DRILL/ REAMER	ROTARY R.P.M.	WT. ON BIT
3080.00	3130.00	0	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
13700	140.0	76	140.0	

REDUCED PUMP SPEED: 4030 @ 3101 @ 35

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	400

MACP 19704

MAX HOOKLOAD 75

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION LOWER PIPE RAMS C-O 13 secs.
15	745	7.50	2	DRILL 152mm HOLE FROM 3080m TO 3130m
745	800	0.25	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well Licence & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 3

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 226 | BOILER 400

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: MIXING CHEMICALS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		3.00			1.50	3.00	0.25													0.25							8.00
EVE						6.75	0.25													1.00							8.00
TOTAL		10.50			1.50	9.75	0.75			0.25										1.25							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
101	DRILLPIPE	STANDS	2889.90m
2	DRILLPIPE	SINGLES	19.30 m
KELLY DOWN			13.26 m
TOTAL			3149.64 m
WT. OF D.C.			22 1000 daN
WT. OF STRING			74 1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	2	RR3
SIZE (mm)	152.0	152.0
IADC CODE	5 3 7	5 3 7
MFG.	SMITH	HUGHES C
Type	XR30T	STX30
SERIAL NO.	MH9520	Y29JH
JETS (mm)	13 13 13	15 15 15
DEPTH IN (m)	2885.00	3149.00
DEPTH OUT (m)	3149.00	
TOTAL METER	264.00	
TOTAL HOURS	37.75	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.
								5.96

DRAG daN | 2UP<>2DOWN

TORQUE | 125

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	900	1000	1200
DENSITY kg/m3	1130	1140	1150
FUNNEL VIS s/l	52	53	52
W.L. cm/ FILCK	8.5	8.5	8.0
PH	9.0	10.0	10.0
PVT	57.10	57.20	57.20

MUD MATERIALS USED

TYPE	QTY	UNITS
CAUSTIC	1	SX
BARITE	86	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3113.40	0.40	101.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3130.00	3149.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
13600	140.0	76	140.0	

REDUCED PUMP SPEED

5600 @ 45 @ 3139

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 19153

MAX HOOKLOAD 75

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	945	1.75	2	DRILL 3130m-3139m
945	1000	0.25	7	RIG SERVICE FT. UPPER PIPE RAM C/ 9 SECS
1000	1115	1.25	2	DRILL 3139m-3149m
1115	1245	1.50	5	CIRC BTM'S UP
1245	1330	0.75	6	FLOW CHECK@ 3135M, PULL 5 STD's, FLOW CHECK 2994m
1330	1345	0.25	20	PICK UP KELLY, TEST MWD TEMP. PUMP PILL
1345	1600	2.25	6	CONTINUE TRIP OUT, FLOW CHECK @ 1552m

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Slick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002	MONTH 2	DAY 3	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 226	BOILER 400		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

SAFETY TOPIC — SAFETY GLASSES

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES — Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		3.00			1.50	3.00	0.25													0.25							8.00
EVE						6.75	0.25													1.00							8.00
TOTAL		10.50			1.50	9.75	0.75			0.25										1.25							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	STAB	152	0.20 m
2	STAB	121	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
2	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
101	DRILLPIPE	STANDS	2889.90 m
2	DRILLPIPE	SINGLES	19.30 m
KELLY DOWN			13.26 m
TOTAL			3149.64 m
WT. OF D.C.			22 1000 dan
WT. OF STRING			74 1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	2	3
SIZE (mm)	152.0	152.0
IADC CODE	5 3 7	5 3 7
MFG.	SMITH	REED
Type	XR30T	SL53A
SERIAL NO.	MH9520	MB5506
JETS (mm)	13 13 13 15 15 15	
DEPTH IN (m)	2885.00	3149.00
DEPTH OUT (m)	3149.00	
TOTAL METER	264.00	
TOTAL HOURS	37.75	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		140.0	

REDUCED PUMP SPEED

5600 @ 45 @ 3139

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00			

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	395

MACP 19153

MAX HOOKLOAD 67

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1745	1.75	6	CONTINUE TRIP OUT OF HOLE,
1745	1800	0.25	20	COOL DOWN MWD
1800	1945	1.75	6	CONTINUE TRIP OUT, FLOW CHECK @ 227m & SURFACE
1945	2130	1.75	6	MAKE UP BIT # 3 / RUN IN HOLE
2130	2200	0.50	20	PICK UP KELLY CIRCULATE- PULSE TEST
2200	2245	0.75	6	RUN IN 30 STANDS
2245	2300	0.25	20	PICK UP KELLY CIRCULATE- PULSE TEST
2300	2345	0.75	6	RUN IN HOLE
2345	2400	0.25	7	RIG SERVICE FUNCTION LOWER PIPE RAMS C/O 14 secs.
2400				

Notes: FUNCTION BLIND RAM WHILE OUT OF HOLE

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

	Opr.	R.M.

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002	MONTH 2	DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 272 | BOILER 390

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: SLIDING KELLY

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
95	DRILLPIPE	STANDS	2717.22m
2	DRILLPIPE	SINGLES	19.25 m
KELLY DOWN			11.35 m
TOTAL			2975.00 m
WT. OF D.C.			1000 dan
WT. OF STRING			1000 dan
DRILLERS SIGNATURE			

BIT RECORD

BIT NO.	2								
SIZE (mm)	152.0								
IADC CODE	5	3	7						
MFG.	SMITH								
Type	XR30T								
SERIAL NO.	MH9520								
JETS (mm)	13	13	13						
DEPTH IN (m)	2885.00								
DEPTH OUT (m)									
TOTAL METER	90.00								
TOTAL HOURS	12.25								

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	200	400	630
DENSITY kg/m3	1120	1130	1130
FUNNEL VIS s/l	47	46	47
W.L. cm/ FILCK	8.0	8.0	8.0
PH	10.0	10.0	10.0
PVT	52.70	53.40	54.20

MUD MATERIALS USED

TYPE	QTY	UNITS
CAUSTIC	1	SX
GEL	28	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2940.70	0.80	202.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2928.00	2975.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12000	140.0	73	140.0	

REDUCED PUMP SPEED

3480 @ 2956 @ 35

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 19704
MAX HOOKLOAD 73

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION UPPER PIPE RAMS C/O 13 secs.
15	745	7.50	2	DRILL 152mm HOLE FROM 2928m TO 2975m
745	800	0.25	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 272 | BOILER 390

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC

STEAM

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | TOP 80

MIDDLE 80 | MIDDLE 80

BOTTOM 80 | BOTTOM 80

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT / MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PIN	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
97	DRILLPIPE	STANDS	2774.91m
1	DRILLPIPE	SINGLES	9.61 m
KELLY DOWN			13.26 m
TOTAL			3024.96 m
WT. OF D.C.			12 1000 daN
WT. OF STRING			72 1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	2
SIZE (mm)	140.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR30T
SERIAL NO.	MH9520
JETS (mm)	13 13 13
DEPTH IN (m)	2885.00
DEPTH OUT (m)	
TOTAL METER	139.00
TOTAL HOURS	19.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.
								7.04

DRAG dan | 2UP<>2DOWN

TORQUE | 118

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	800	1100	1400
DENSITY kg/m3	1120	1120	1130
FUNNEL VIS s/l	46	47	47
W.L. cm/ FILCK	8.0	9.0	8.0
PH	8.0	10.0	10.0
PVT	54.50	54.80	55.30

MUD MATERIALS USED

TYPE	QTY	UNITS
CAUSTIC	1	SX
GEL	26	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2969.40	0.50	211.7
2997.40	0.50	350.2

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2975.00	3024.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12300	140.0	75	140.0	

REDUCED PUMP SPEED: 4200 @ 40 @ 2996

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP 19980

MAX HOOKLOAD 72

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1145	3.75	2	DRILL 2975m-2996m
1145	1200	0.25	7	RIG SERVICE FT. LOWER PIPE RAM C/ 8 SECS
1200	1545	3.75	2	DRILL 2996m-3024m
1545	1600	0.25	10	ACCUMULATIVE SURVEY TIME
1600				

Notes: CHECK TONGS & LINES, BRAKE LINKAGE

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 272 | BOILER 390

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: STEAM

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	mi-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.mm	
1	BIT/ MILLS	0.20	m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	121	0.66 m
2	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.57 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
99	DRILLPIPE	STANDS	2832.49 m
1	DRILLPIPE	SINGLES	9.78 m
	KELLY DOWN	10.55	m
	TOTAL	3080.00	m
	WT. OF D.C.	22	1000 dan
	WT. OF STRING	72	1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	2							
SIZE (mm)	152.0							
IADC CODE	5	3	7					
MFG.	SMITH							
Type	XR30T							
SERIAL NO.	MH9520							
JETS (mm)	13	13	13					
DEPTH IN (m)	2885.00							
DEPTH OUT (m)								
TOTAL METER	195.00							
TOTAL HOURS	27.25							

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1730	2030	2330
DENSITY kg/m3	1130	1130	1135
FUNNEL VIS s/l	50	50	48
W.L. cm/ FILCK	8.0	8.0	8.5
PH	10.0	10.0	10.0
PVT	57.00	57.80	58.20

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
3027.40	0.30	306.7
3055.90	0.30	356

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
3024.00	3027.00	D	20	8
3027.00	3080.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12500	140.0	73	140.0	

REDUCED PUMP SPEED

5600 @ 45 @ 3034

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	380

MACP 19704

MAX HOOKLOAD 74

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1715	1.25	2	DRILL 3024m-3034m
1715	1730	0.25	7	RIG SERVICE FT. HYDRILL C/ 35 SECS
1730	2345	6.25	2	DRILL 3034m-3080m
2345	2400	0.25	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK LOWER KELLY COCK, BRAKE LINKAGE, TONGS & LINES

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Slick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: PINCH POINTS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES / NO

TOP	80	80
MIDDLE	80	80
BOTTOM	80	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	STAB IN CA					
MORN						3.00	0.25									4.75											8.00
DAY						4.75	0.25		1.00											1.75		0.25					8.00
EVE		4.75	0.75		0.25	1.75																	0.50				8.00
TOTAL		4.75	0.75		0.25	9.50	0.50		1.00							4.75				1.75		0.25	0.50				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
WT. OF D.C.		1000 daN
WT. OF STRING		1000 daN

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
DRAG daN	2										
TORQUE	130										
FILL m											

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

MUD RECORD: WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP	19980
MAX HOOKLOAD	45

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	315	3.00	6	PULL OUT OF HOLE WITH D.S.T. # 1
315	800	4.75	16	BREAK DOWN TEST TOOL RECOVER & READ RECORDERS/LOAD OUT
800				
				FLOW CHECKS - 2134m,1445m,238m,EVERY 5 MIN. OUT OF HOLE
				TRIP RECORD - MEASURED VOL.-9.61/CALC. VOL. -8.93 DIFF.-.64

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Sick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

	Opr.	R.M.

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 2 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: TRIPING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES ___ NO ___

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGU- TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECT'NAL WORK	SAFETY MEETING	STAB IN CA					
MORN						3.00	0.25									4.75											8.00
DAY						4.75	0.25		1.00											1.75		0.25					8.00
EVE		4.75	0.75		0.25	1.75																	0.50				8.00
TOTAL		4.75	0.75		0.25	9.50	0.50		1.00							4.75				1.75		0.25	0.50				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	2
SIZE (mm)	140.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR30T
SERIAL NO.	MH9520
JETS (mm)	13 13 13
DEPTH IN (m)	2895.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
TRIPPING		

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
			0.0	

REDUCED PUMP SPEED

@	0	@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	375

MACP	19980
MAX HOOKLOAD	57

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	6	MAKE UP BIT, SET ANGLE
815	830	0.25	22	STAB MOTOR IN CASING
830	1000	1.50	20	CONTINUE MAKE UP DIRC. EQUIPT.
1000	1115	1.25	6	RUN IN TO 236m, FLOW CHECK
1115	1130	0.25	20	PICK UP KELLY, CHECK MWD
1130	1230	1.00	9	CUT OFF DRLL LINE 26m
1230	1245	0.25	7	RIG SERVICE FT. HYDRILL C/ 34 SECS
1245	1600	3.25	6	CONTINUE TRIP IN FLOW CHECK & FILL PIPE @ 1097m, 1989m,

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE
FT. BLIND RAM WHILE OUT OF HOLE C/ 4 SECS

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 2 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: SLIDING KELLY

	O.D. mm	MIN. I.D.	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | MIDDLE 80 | BOTTOM 80

TOP 80 | MIDDLE 80 | BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	STAB IN CA					
MORN						3.00	0.25									4.75											8.00
DAY						4.75	0.25		1.00											1.75		0.25					8.00
EVE		4.75	0.75		0.25	1.75																	0.50				8.00
TOTAL		4.75	0.75		0.25	9.50	0.50		1.00							4.75				1.75		0.25	0.50				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D. mm		
1	BIT/ MILLS	O.D. mm	0.20	m
2	STAB	152	0.20	m
3	MOTOR	121	7.17	m
4	FLOAT SUB	121	0.66	m
5	STAB	121	1.55	m
6	DOUBLE PIN	121	0.34	m
7	NMDC	121	9.53	m
8	TRANS SUB	121	2.13	m
9	NMDC	121	9.43	m
10	3 D. COLLA	121	27.57	m
11	JAR	121	3.82	m
12	18 D. COLL	121	164.58	m
				m
				m
				m
				m
				m
				m
				m
94	DRILLPIPE	STANDS	2688.41	m
	DRILLPIPE	SINGLES		m
KELLY DOWN			12.41	m
TOTAL			2928.00	m
WT. OF D.C.				1000 dan
WT. OF STRING				1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	2
SIZE (mm)	140.0
IADC CODE	5 3 7
MFG.	SMITH
Type	XR30T
SERIAL NO.	MH9520
JETS (mm)	13 13 13
DEPTH IN (m)	2885.00
DEPTH OUT (m)	
TOTAL METER	43.00
TOTAL HOURS	4.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1830	2130	
DENSITY kg/m3	1110	1120	
FUNNEL VIS s/l	50	47	
W.L. cm/ FILCK		8.0	
PH	10.0	8.0	
		50.80	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2883.10	1.10	210.7
2902.30	1.20	208.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2885.00	2928.00	D	20	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12000	140.0	73	140.0	

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 19980

MAX HOOKLOAD 71

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1745	1.75	6	CONTINUE TRIP IN, FLOW CHECK & FILL PIPE 1989m, 2868m
1745	1800	0.25	5	BREAK CIRC
1800	1845	0.75	3	WASH/ REAM 2868m-2884.5m
1845	1915	0.50	23	GRIND UP PACKER RUBBER
1915	2400	4.75	2	DRILL 152mm HOLE FROM 2885m TO 2928m
2400				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	SAFETY TOPIC: TEST TOOL

	Opr.	R.M.
(1) Daily Walk Around Inspection		GM
(2) Detailed Inspection-Weekly (Using Check List)		GM
(3) H2S Signs Posted(If Required)		GM
(4) Well License & Stick Diagram Posted		GM
(5) Flare Lines Staked		GM
(6) BOP Drills Preformed		GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 1 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURE -27 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Mom	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	HANDLE TC	TEST LINE	BLACKOUT			
MORN						4.25	0.25															3.50					8.00
DAY						2.75										3.50					0.25		1.50				8.00
EVE					1.50	4.00	0.25									1.50								0.75			8.00
TOTAL					1.50	11.00	0.50									5.00					0.25	3.50	1.50	0.75			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PIN	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
2	DRILLPIPE	SINGLES	19.33 m
	KELLY DOWN		7.37 m
	TOTAL		2885.05 m
	WT. OF D.C.	16	1000 dan
	WT. OF STRING	70	1000 dan

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0			

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	260

MACP: 17165

MAX HOOKLOAD: 20

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	200	2.00	6	POOH TO TEST
200	300	1.00	22	HANDLE TOOLS
300	315	0.25	7	RIG SERVICE FUNCTION BLIND RAMS-4 SEC. TO CLOSE
315	545	2.50	22	HANDLE TEST TOOL & ASSEMBLE
545	800	2.25	6	RIH W/TEST TOOL
800				

Notes: CALC.-10.27m3 MEAS.-10.72m3 DIFF.-.45m3

STRAP-2651.43 TALLY-2650.49 DIFF.-.94

FLOW CHECK @ SURFACE

FUNCTION BLIND RAMS-4 SEC. TO CLOSE

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		GEORGE McDONALD	

	Opr.	R.M.
(1) Daily Walk Around Inspection		GM
(2) Detailed Inspection Weekly (Using Check List)		GM
(3) H2S Signs Posted(If Required)		GM
(4) Well License & Stick Diagram Posted		GM
(5) Flare Lines Staked		GM
(6) BOP Drills Preformed		GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 1 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURES -27 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: TESTING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	HANDLE TC	TEST LINE	BLACKOUT			
MORN						4.25	0.25															3.50					8.00
DAY						2.75										3.50					0.25		1.50				8.00
EVE					1.50	4.00	0.25									1.50								0.75			8.00
TOTAL					1.50	11.00	0.50									5.00					0.25	3.50	1.50	0.75			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PI	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
2	DRILLPIPE	SINGLES	19.33 m
KELLY DOWN			7.37 m
TOTAL			2885.05 m
WT. OF D.C.			16 1000 dan
WT. OF STRING			70 1030 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	GEORGE McDONALD	SAFETY TOPIC	TRIPPING

	Opr.	R.M.
(1) Daily Walk Around Inspection		GM
(2) Detailed Inspection-Weekly (Using Check List)		GM
(3) H2S Signs Posted(If Required)		GM
(4) Well License & Stick Diagram Posted		GM
(5) Flare Lines Staked		GM
(6) BOP Drills Performed		GM
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		GM
(1) Rig Site Health and Safety Meeting (one/crew/month)		GM
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		GM
(3) Mast Inspection Before Raising or Lowering		GM
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		GM

YEAR 2002 | MONTH 1 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 218 | BOILER 360

WEATHER: TEMPERATURE -27 | CONDITIONS CALM | WIND DIRECTION CALM | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 80 | TOP 80

MIDDLE 80 | MIDDLE 80

BOTTOM 80 | BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	HANDLE TC	TEST LINE	BLACKOUT			
MORN						4.25	0.25															3.50					8.00
DAY						2.75										3.50					0.25		1.50				8.00
EVE					1.50	4.00	0.25									1.50								0.75			8.00
TOTAL					1.50	11.00	0.50									5.00					0.25	3.50	1.50	0.75			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PI	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
2	DRILLPIPE	SINGLES	19.33 m
KELLY DOWN			7.37 m
TOTAL			2885.05 m
WT. OF D.C.			16 1000 dan
WT. OF STRING			70 1000 dan

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		0.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	450

MACP: 0

MAX HOOKLOAD: 67

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1630	0.50	16	BLEED OFF TOOL
1630	1730	1.00	16	LAY DOWN TEST HEAD
1730	1815	0.75	6	TRIP OUT DST, FLOW CHECK @ 2885m
1815	1830	0.25	7	RIG SERVICE FT. HYDRILL C/ 8 SECS
1830	2000	1.50	5	OPEN PUMP OUT SUB, REVERSE CIRC
2000	2045	0.75	6	CONTINUE TRIP OUT DST, FLOW CHECK @ 2760m
2045	2130	0.75	24	BLACKOUT ON RIG, MONITOR WELL
2130	2400	2.50	6	CONTINUE TRIP OUT W/ DST FLOW CHECK@2134M
2400				

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TC	
TC	
TC	
TC	
TC	

YEAR 2002 | MONTH 1 | DAY 30

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 181 | BOILER

WEATHER: TEMPERATURE -25 | CONDITIONS CLEAR | WIND DIRECTION S.E. | ROAD CONDITION SLIPPERY

SAFETY TOPIC: FLOW CHECKS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: x YES NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WO ORDER					
MORN		1.25			5.00	1.25	0.25															0.25					8.00
DAY					4.25	3.50	0.25																				8.00
EVE						7.50	0.25														0.25						8.00
TOTAL		1.25			9.25	12.25	0.75														0.25	0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
1	BIT/ MILLS	O.D.mm	0.20	m
2	STAB	152	0.20	m
3	MOTOR	121	7.17	m
4	FLOAT SUB	120	0.66	m
5	STAB	121	1.55	m
2	DOUBLE PIN	4	0.34	m
7	NMDC	121	9.53	m
8	TRANS SUB	121	2.13	m
9	NMDC	121	9.43	m
10	3 D. COLLA	121	27.58	m
11	JAR	121	3.82	m
12	18 D. COLL	121	164.58	m
				m
				m
				m
				m
				m
				m
				m
92	DRILLPIPE	STANDS	2631.16	m
2	DRILLPIPE	SINGLES	19.33	m
	KELLY DOWN		7.37	m
	TOTAL		2885.05	m
	WT. OF D.C.		16	1000 dan
	WT. OF STRING		70	1000 dan

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 13 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	2885.00
TOTAL METER	77.00
TOTAL HOURS	9.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [x] OIL BASED [ ]

TIME	200	4	630
DENSITY kg/m3	1095	1095	1100
FUNNEL VIS s/l	55	54	43
W.L. cm/ FLCK	9.0	9.0	9.0
PH	10.0	10.0	10.0
PVC	52.70	6.00	52.50

MUD MATERIALS USED

TYPE	QTY	UNITS
CAUSTIC	1	SX
BARITE	25	SX
GEL	12	SX
BARITE	61	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2867.05	1.60	203.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2875.00	2885.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10100	140.0	73		

REDUCED PUMP SPEED: 2500 @ 35 @ 2882

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
		6	

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	260

MACP: 20538

MAX HOOKLOAD: 70

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	30	0.50	5	CIRCULATE & WEIGHT UP TO 1100kg/m32
30	145	1.25	2	DRILL F/2875-T/2885
145	245	1.00	5	CIRCULATE UP SAMPLES
245	300	0.25	7	RIG SERVICE FUNCTION PIPE RAMS-4 SEC. TO CLOSE
300	315	0.25	22	WAIT ON ORDERS
315	630	3.25	5	CIRCULATE2
630	645	0.25	5	PUMP PILL
645	800	1.25	6	POOH TO TEST
800				2

Notes: FLOW CHECK @ 2887m

FLOW CHECKS @ 2877,2740

RPP @ 50 STKS @ 4500kpa(STANDPIPE) & 5200kpa(PASON

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	SCOTT PACKS

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 30

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 181 | BOILER

WEATHER: TEMPERATURE -25 | CONDITIONS CLEAR | WIND DIRECTION S.E. | ROAD CONDITION SLIPPERY

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

BC. DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | X | YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WO ORDER					
MORN		1.25			5.00	1.25	0.25															0.25					8.00
DAY					4.25	3.50	0.25																				8.00
EVE						7.50	0.25														0.25						8.00
TOTAL		1.25			9.25	12.25	0.75														0.25	0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PIN	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
2	DRILLPIPE	SINGLES	19.33 m
KELLY DOWN			7.37 m
TOTAL			2885.05 m
WT. OF D.C.			16 1000 daN
WT. OF STRING			70 1000 daN

DRILLERS SIGNATURE NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES (
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 13 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	2885.00
TOTAL METER	77.00
TOTAL HOURS	9.00
DRAG dan	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME		1400
DENSITY kg/m3		1140
FUNNEL VIS s/l		44
W.L. cm/ FILCK		9.0
PH		9.5

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	13	SX
BARITE	187	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0			

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 17165

MAX HOOKLOAD 70

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	900	0.75	5	PICK UP KELLY / CIRCULATE / FLOW CHECK/ PUMP 2ND PILL
900	1045	1.75	6	CONTINUE TO PULL OUT OF HOLE
1045	1230	1.75	6	FLOW CHECK / RUN BACK IN HOLE
1230	1600	3.50	5	COND MUD & CIRC

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

SAFETY MEETING & REORIENTATION TO AIR PACKS

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	SAFETY TOPIC: FLOW CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Sick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	TC
	TC
	TC
	TC
	TC

YEAR 2002 | MONTH 1 | DAY 30
RIG NO.: 4
FUEL @ 08:00 HRS.
I/C 181 | BOILER

WEATHER
TEMPERATURE -25
CONDITIONS CLEAR
WIND DIRECTION S.E.
ROAD CONDITION SLIPPERY

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	6.00	E75	2	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: X YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WO ORDER					
MORN		1.25			5.00	1.25	0.25															0.25					8.00
DAY					4.25	3.50	0.25																				8.00
EVE						7.50	0.25														0.25						8.00
TOTAL		1.25			9.25	12.25	0.75														0.25	0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PIN	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16 m
2	DRILLPIPE	SINGLES	19.33 m
	KELLY DOWN		7.37 m
	TOTAL		2885.05 m
	WT. OF D.C.	16	1000 dan
	WT. OF STRING	70	1000 dan
	DRILLERS SIGNATURE	DENNIS TESSIER	

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.	

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0			

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	260

MACP 17165
MAX HOOKLOAD 65

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	1700	0.75	6	MIX & PUMP PILL / PULL OUT OF HOLE
1700	1715	0.25	21	SAFETY MTG.
1715	1830	1.25	6	FLOW CHECK/WAIT ON ORDERS
1830	2400	5.50	6	PULL OUT OF HOLE TO TEST
2400				

Notes: FLOW CHECKS @ 2877,2765,2585,2016,1725,1439,1151,837,520 & 220

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 29

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: BOP DRILL

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
LINER	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL OUT	LEAK OFF T	FLOW CHE	BLOW LINE		
MORN		2.25			0.25		0.25	3.00													0.25	0.75	1.25				8.00
DAY		5.25			2.00		0.25																	0.25	0.25		8.00
EVE					7.25		0.25																		0.50		8.00
TOTAL		7.50			9.50		0.75	3.00													0.25	0.75	1.25	0.25	0.75		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PIN	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
90	DRILLPIPE	STANDS	2573.50m
2	DRILLPIPE	SINGLES	19.23 m
KELLY DOWN			13.26 m
TOTAL			2833.18 m
WT. OF D.C.			16 1000 dan
WT. OF STRING			70 1000 dan

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	25.00
TOTAL HOURS	2.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	330	500	630
DENSITY kg/m3	1020	1020	1020
FUNNEL VIS s/l	40	40	40
W.L. cm/ FILCK	10.5	10.0	11.0
PH	10.0	10.0	10.0
PVT	49.60	50.00	50.20

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2816.18	1.40	202.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2808.00	2810.00	D	20	4
2810.00	2833.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8700	140.0	73	140.0	

REDUCED PUMP SPEED: 2500 @ 35 @ 2831

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	260

MACP 22736

MAX HOOKLOAD 72

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR - 11 SEC. & 3 SEC.
15	30	0.25	21	SAFETY MTG. HELD BOP DRILL W/CREW-WELL SECURED IN 81 SEC.
30	115	0.75	22	DRILL OUT SHOE & 4m FORMATION
115	130	0.25	5	CIRCULATE HOLE
130	245	1.25	23	LEAK OFF TEST
245	500	2.25	2	DRILL 152mm HOLE F/2813-T/2833
500	800	3.00	8	REPAIR RIG (WORK ON LOW-CLUTCH AIR SUPPLY-BROKEN QUICK RELEASE
800				FITTING)

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	SAFETY TOPIC: KICK POSITIONS

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well Licensee & Slack Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 29

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL OUT	LEAK OFF T	FLOW CHEC	BLOW LINE		
MORN		2.25			0.25		0.25	3.00													0.25	0.75	1.25				8.00
DAY		5.25			2.00		0.25																	0.25	0.25		8.00
EVE					7.25		0.25																		0.50		8.00
TOTAL		7.50			9.50		0.75	3.00													0.25	0.75	1.25	0.25	0.75		24.00

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PI	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
1	DRILLPIPE	SINGLES	9.66 m
	KELLY DOWN		6.99 m
	TOTAL		2875.00 m
	WT. OF D.C.	16	1000 daN
	WT. OF STRING	70	1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT NO.	1D		
SIZE (mm)	152.4		
IADC CODE	5 3 7		
MFG.	HUGHES C		
Type	STX-30		
SERIAL NO.	Y29JH		
JETS (mm)	13 12 13		
DEPTH IN (m)	2808.00		
DEPTH OUT (m)			
TOTAL METER	67.00		
TOTAL HOURS	7.75		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED: X | OIL BASED:

TIME	1000		
DENSITY kg/m3	1020		
FUNNEL VIS s/l	40		
W.L. cm/ FILCK	1100.0		
PH	10.0		
p v t	53.30		

MUD MATERIALS USED

TYPE	QTY	UNITS
BARITE	186	SX
CAL CARB 'O'	8	SX
BIO-LOSE	6	SX
STAFLO	2	SX
LIGNITE	2	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2853.60	1.40	198.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2833.00	2875.00	D	20	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10000	140.0	35	140.0	

REDUCED PUMP SPEED

2500 @ 35 @ 2841

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	360

MACP: 22736

MAX HOOKLOAD: 72

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	24	BOP DRILL W/CREW WELL SECURE IN
815	830	0.25	7	RIG SERVICE FUNCTION UPPER PIPE c/4 SECS.
830	1345	5.25	2	DRILL F/2833m TO 2875m
1345	1400	0.25	25	FLOW CHECK / WELL FLOWING / SHUT IN
1400	1600	2.00	5	LET PRESSURES STABILIZE / CIRCULATE & MIX TO KILL WELL
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC
DW	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	TC
	TC
	TC
	TC
	TC

YEAR 2002 | MONTH 1 | DAY 29

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: CIRC. OUT KICK

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES | NO

TOP	80	TOP	80
MIDDLE	80	MIDDLE	80
BOTTOM	80	BOTTOM	80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL OUT	LEAK OFF T	FLOW CHEC	BLOW LINE		
MORN		2.25			0.25		0.25	3.00													0.25	0.75	1.25				8.00
DAY		5.25			2.00		0.25																	0.25	0.25		8.00
EVE					7.25		0.25																		0.50		8.00
TOTAL		7.50			9.50		0.75	3.00													0.25	0.75	1.25	0.25	0.75		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
2	DOUBLE PI	4	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2631.16m
1	DRILLPIPE	SINGLES	9.66 m
	KELLY DOWN		6.99 m
	TOTAL		2875.00 m
	WT. OF D.C.		16 1000 dan
	WT. OF STRING		70 1000 dan

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	67.00
TOTAL HOURS	7.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

	WATER BASED X	OIL BASED
TIME	2	2300
DENSITY kg/m3	1065	1100
FUNNEL VIS s/l	43	43
W.L. cm/ FILCK	2.0	8.0
PH	2.0	9.0
PVC	52.60	52.80

MUD MATERIALS USED

TYPE	QTY	UNITS
BARITE	6	SX
CELLOPHANE	20	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2875.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7700	140.0	4	140.0	

REDUCED PUMP SPEED: 2900 @ 35 @ 2872

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	345

MACP: 20538

MAX HOOKLOAD: 70

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1945	3.75	5	COND MUD & CIRC (THREW CHOKE)
1945	2000	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 3 SEC.
2000	2030	0.50	25	BLOW KILL LINE,SWEEP LINE T/MANIFOLD,MANIFOLD & DEGASSER LINE
2030	2400	3.50	5	COND MUD & CIRC

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37; CONDITIONS CLEAR; WIND DIRECTION NORTH; ROAD CONDITION SLIPPERY

SAFETY TOPIC: PICKING UP DP

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2; TYPE DFS; TYPE; CHANGE SCREENS x YES NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL CEM	MUD UP				
MORN						7.75	0.25																				8.00
DAY						7.75	0.25																				8.00
EVE						3.25	0.25															1.50	3.00				8.00
TOTAL						18.75	0.75															1.50	3.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PIN	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
29	DRILLPIPE	STANDS	827.23 m
1	DRILLPIPE	SINGLES	9.71 m
KELLY DOWN			m
TOTAL		1064.13	m
WT. OF D.C.		16	1000 daN
WT. OF STRING		33	1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED X OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	345

MACP 23295

MAX HOOKLOAD 33

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	800	7.75	6	R.I.H. WITH MWD. PICKING UP SINGLES
800				

Notes:

DAY SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37 | CONDITIONS CLEAR | WIND DIRECTION NORTH | ROAD CONDITION SLIPPERY

SAFETY TOPIC: SPINNING CHAIN

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: x | YES | NO

TOP 80	TOP 80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL CEM	MUD UP				
MORN						7.75	0.25																				8.00
DAY						7.75	0.25																				8.00
EVE						3.25	0.25															1.50	3.00				8.00
TOTAL						18.75	0.75															1.50	3.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
29	DRILLPIPE	STANDS	827.23 m
1	DRILLPIPE	SINGLES	9.71 m
	KELLY DOWN		m
	TOTAL	1064.13	m
	WT. OF D.C.	16	1000 daN
	WT. OF STRING	33	1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
M.F.G.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED: x | OIL BASED:

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FLCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO.1 LINER(mm)	PUMP NO.1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	140.0		140.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	345

MACP 23295

MAX HOOKLOAD 64

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE FUNCTION HCR O/C 4 secs.
815	1600	7.75	6	RUN IN HOLE WITH 3 1/2 DRILL PIPE
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Slick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37 | CONDITIONS CLEAR | WIND DIRECTION NORTH | ROAD CONDITION SLIPPERY

SAFETY TOPIC: STEAM

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	IPSCO	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: x | YES | NO

TOP	TOP
80	80
MIDDLE 80	MIDDLE 80
BOTTOM 80	BOTTOM 80

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DRILL CEM	MUD UP				
MORN						7.75	0.25																				8.00
DAY						7.75	0.25																				8.00
EVE						3.25	0.25															1.50	3.00				8.00
TOTAL						18.75	0.75															1.50	3.00				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PIN	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
			m
90	DRILLPIPE	STANDS	2573.50m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	13.26	m
	TOTAL	2813.95	m
	WT. OF D.C.	16	1000 dan
	WT. OF STRING	68	1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	1D
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED x | OIL BASED

TIME	2330
DENSITY kg/m3	1020
FUNNEL VIS s/l	42
W.L. cm/ FILCK	11.6
PH	9.5
PVC	50.60

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	80	SX
BICARB	2	SX
SODA ASH	2	SX
LIGNITE	2	SX
BIO-LOSE	6	SX
STAFLO	2	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2808.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8600	140.0	70	140.0	

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	340

MACP 23295

MAX HOOKLOAD 68

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE FUNCTION UPPER PIPE RAMS O/C 7 secs
1615	1930	3.25	6	RUN IN HOLE WITH 3 1/2 DRILL PIPE TO TAG CEMENT
1930	2100	1.50	22	DRILL OUT CEMENT & FLOAT
2100	2400	3.00	23	MUD UP

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection CheckList(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 1 | DAY 27

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: PRESS. TEST

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	ipsco	ml-80	210	2809.76	6.37	2808.92

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

	TOP	MIDDLE	BOTTOM
	120	120	50
	120	50	50

RENTALS / SERVICES

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change kelly	HANDLE TC	PIPE HAND	STAB KELL		
MORN															4.25							3.75					8.00
DAY															4.50								3.00		0.50		8.00
EVE						5.00														1.50				0.75	0.75		8.00
TOTAL						5.00									8.75					1.50		3.75	3.00	0.75	1.25		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED: X | OIL BASED:

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	260

MACP

MAX HOOKLOAD 7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	15	TEAR CHECK VALVE APART & REMOVE VALVE & SPRING TO RIG IN
130				PRESSURE TESTER,WILL NOT WORK,NO THREADS ON BOTTOM HOLE
				TO SCREW INTO.
130	315	1.75	15	RIG IN TO STANDPIPE TO PRESSURE TEST BLIND RAMS & PRESSURE TEST
315	700	3.75	22	CHANGE OUT KELLY BARS & BUSHINGS F/5.25" TO 3.25"
700	800	1.00	15	PREPARE KELLY FOR PRESSURE TEST (INSTALL LOWER KELLY,SAVER SUB
800				& TIGHTEN KELLY BAR & SUBS

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(5) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 1 | DAY 27

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: FALL ARREST

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	Ipsco	ml-80	210	2809.76	6.37	2808.92

DC, DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES / NO

TOP	MIDDLE	BOTTOM
120	120	50
120	50	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change bails	HANDLE TO	PIPE HAND	STAB KELL		
MORN															4.25							3.75					8.00
DAY															4.50								3.00		0.50		8.00
EVE						5.00														1.50				0.75	0.75		8.00
TOTAL						5.00									8.75					1.50		3.75	3.00	0.75	1.25		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL	227.19	m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (mm)	13 12 13
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL: m

MUD RECORD

WATER BASED: X | OIL BASED:

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP: 0

MAX HOOKLOAD: 5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1000	2.00	23	CHANGE OUT TONGS,TOURQUE SENS.,PICK UP ALL 3 1/2 SUBS
1000	1030	0.50	25	ATTEMPT TO STAB KELLY INTO HOLE WITH NO BIT GUIDE
1030	1130	1.00	23	STEAM OUT MUD LINE,KELLY HOSE & KELLY TO WARM FOR P. TEST
1130	1600	4.50	15	PRESSURE TEST LOWER & UPPER PIPE RAMS.UPPER & LOWER K.COCK
1600				3 FUNCTION TEST

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

BLEW HOSE BETWEEN HCR & CATWALK WHILE PRESSURE TESTING @ 5,000 KPa

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 1 | DAY 27

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: PICKING UP COLLARS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00
	177.8	159.4	38.69	Ipsco	ml-80	210	2809.76	6.37	2808.92

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change bail	HANDLE TC	PIPE HAND	STAB KELL		
MORN															4.25							3.75					8.00
DAY															4.50								3.00		0.50		8.00
EVE						5.00														1.50				0.75	0.75		8.00
TOTAL						5.00									8.75					1.50		3.75	3.00	0.75	1.25		24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D./mm	
1	BIT	152	0.20 m
2	STAB	152	0.20 m
3	MOTOR	121	7.17 m
4	FLOAT SUB	120	0.66 m
5	STAB	121	1.55 m
6	DOUBLE PI	121	0.34 m
7	NMDC	121	9.53 m
8	TRANS SUB	121	2.13 m
9	NMDC	121	9.43 m
10	3 D. COLLA	121	27.58 m
11	JAR	121	3.82 m
12	18 D. COLL	121	164.58 m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL	227.19	m
	WT. OF D.C.	16	1000 daN
	WT. OF STRING	16	1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	152.4
IADC CODE	5 3 7
MFG.	HUGHES C
Type	STX-30
SERIAL NO.	Y29JH
JETS (nnn)	13 12 13
DEPTH IN (m)	2808.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2808.00				

Circ. Press (kPa)	PUMP NO.1 LINER(mm)	PUMP NO.1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 22998

MAX HOOKLOAD 20

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1645	0.75	24	RIG UP LAYDOWN MACHINE
1645	1815	1.50	20	PICK UP & MAKE UP DIRECTIONAL TOOLS
1815	1900	0.75	25	ATTEMPT TO STAB BIT IN HOLE WITH NO BIT GUIDE
1900	2400	5.00	6	MAKE UP BHA & RUN IN
2400				

Notes:

MORNING SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: CEMENTING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00							3.25		2.50							0.25						8.00
DAY														8.00													8.00
EVE														8.00													8.00
TOTAL					2.00							3.25		18.50							0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
Type			
SERIAL NO.			
JETS (mm)			
DEPTH IN (m)			
DEPTH OUT (m)			
TOTAL METER			
TOTAL HOURS			

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER: HRS. RUN 8.00 | PH 10.0 | STACK deg 240

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	200	2.00	5	CIRCULATE CASING
200	215	0.25	21	SAFETY MTG.
215	530	3.25	12	CEMENT CASING
530	800	2.50	14	NIPPLE DOWN B.O.P.
800				

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	NIPPLE UP

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00							3.25		2.50							0.25						8.00
DAY														8.00													8.00
EVE														8.00													8.00
TOTAL					2.00							3.25		18.50							0.25						24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	290

MACP 0

MAX HOOKLOAD 78

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1030	2.50	14	REMOVE HCR & KILL LINES TO LIFT B.O.P.
1030	1600	5.50	14	SET CASING SLIPS AT 78000 DECANEWTONS
1600				CUT CASING & NIPPLE UP

Notes:

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	PRESSURE TEST

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
89	23.07	E75	66	127	3.5IF	265	NATIONAL	8P-80	215
89	23.07	X95	66	127	3.5IF	106	NATIONAL	8P-80	215
121	69.40	SPIRAL	57	121	3.5IF	21			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00							3.25		2.50							0.25						8.00
DAY														8.00													8.00
EVE														8.00													8.00
TOTAL					2.00							3.25		18.50							0.25						24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 dan
WT. OF STRING			1000 dan

BIT RECORD

BIT NO.											
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.		

DRAG dan

TORQUE

FILL m

DRILLERS SIGNATURE | DENNIS TESSIER

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAMCR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP

MAX HOOKLOAD 7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1930	3.50	14	NIPPLE UP BOP
1930	2230	3.00	14	CHANGE OUT UPPER & LOWER PIPE RAMS
				PIPE RAM GATES HARD TO OPEN DUE TO RUBBER ON RAMS
				SWELLED
2230	2400	1.50	14	REINSTALL FLOW TEE

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 25

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37 | CONDITIONS COLD | WIND DIRECTION NORTH | ROAD CONDITION SLIPPERY

SAFETY TOPIC: RUNNING CASING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISH	DIRECTIONAL WORK	SAFETY MEETING	W.O. TONG					
MORN						1.75	0.25					4.75									0.25	1.00					8.00
DAY							0.25					7.75															8.00
EVE					1.00		0.25					6.75															8.00
TOTAL					1.00	1.75	0.75					19.25									0.25	1.00					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

BIT RECORD

BIT NO.									
SIZE (mm)									
IADC CODE									
MFG.									
Type									
SERIAL NO.									
JETS (mm)									
DEPTH IN (m)									
DEPTH OUT (m)									
TOTAL METER									
TOTAL HOURS									
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	290

MACP 0

MAX HOOKLOAD 82

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1600	7.75	12	RUN CASING
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	RUNNING CASING

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 25

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37 | CONDITIONS COLD | WIND DIRECTION NORTH | ROAD CONDITION SLIPPERY

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	SH90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	W.O. TONG					
MORN						1.75	0.25					4.75									0.25	1.00					8.00
DAY							0.25					7.75															8.00
EVE					1.00		0.25					6.75															8.00
TOTAL					1.00	1.75	0.75					19.25									0.25	1.00					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.												
SIZE (mm)												
IADC CODE												
MFG.												
Type												
SERIAL NO.												
JETS (mm)												
DEPTH IN (m)												
DEPTH OUT (m)												
TOTAL METER												
TOTAL HOURS												
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.			

DRAG daN | TORQUE | FILL m

MUD RECORD

WATER BASED | OIL BASED: X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1300	0.0	95	152.0	

REDUCED PUMP SPEED: @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	IN TAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP: 4811

MAX HOOKLOAD: 104

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2300	6.75	12	RUN CASING
2300	2400	1.00	5	CIRCULATE CASING

Notes:

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. :
1931	Paramount Anadarko Bovie

OPERATOR :	CONTRACTOR :
PARAMOUNT RESOURCES LTD.	SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
DAVE WILSON	TOM CARRIERE

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 25

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -37 | CONDITIONS COLD | WIND DIRECTION NORTH | ROAD CONDITION SLIPPERY

SAFETY TOPIC: RUNNING CASING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	W.O. TONG					
DOWN						1.75	0.25					4.75									0.25	1.00					8.00
DAY							0.25					7.75															8.00
EVE					1.00		0.25					6.75															8.00
TOTAL					1.00	1.75	0.75					19.25									0.25	1.00					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP | 4811

MAX HOOKLOAD | 35

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	6	POOH SIDEWAYS
145	200	0.25	7	RIG SERVICE FUNCTION BLIND RAMS-3 SEC. TO CLOSE
200	300	1.00	22	WAIT ON TONG TRUCK
300	430	1.50	12	RUN TO RUN CASING
430	445	0.25	21	SAFETY MTG.
445	800	3.25	12	RUN CASING
800				

Notes: FLOW CHECKS @ 166 & 0

CALC.13.05m3 MEAS.-13.85m3 DIFF.-.80m3

RIG IN TONG HAND - 45 MIN.

WORK ON TONGS - 45 MIN (WARM UP HYDRAULIC PUMP & CHANGE FITTINGS AROU

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION.: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
DAVE WILSON		TOM CARRIERE	SAFETY TOPIC: TRIPPING

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Slack Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Performed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	
CHANGE SCREENS	YES	NO
TOP 120	TOP 120	
MIDDLE 120	MIDDLE 50	
BOTTOM 50	BOTTOM 50	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	STEAM KEL	JACK RIG				
MORN					0.75	5.00	0.25		1.25													0.75					8.00
DAY					2.50	5.25															0.25						8.00
EVE						6.50	0.25																1.25				8.00
TOTAL					3.25	16.75	0.50		1.25												0.25	0.75	1.25				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.25 m
1	BIT SUB	172	0.92 m
6	D.C.	170	55.30 m
15	D.C.	170	138.57 m
1	X.O.	168	0.80 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
91	DRILLPIPE	STANDS	2569.22m
	DRILLPIPE	SINGLES	m
KELLY DOWN			13.03 m
TOTAL			2778.09 m
WT. OF D.C.			32 1000 dan
WT. OF STRING			40 1000 dan
DRILLERS SIGNATURE			DAVE RUSCHEINSKI

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED X

TIME	830		
DENSITY kg/m3	950		
FUNNEL VIS s/l	83		
W.L. cm/ FILCK			
PH			
PVT	38.80		

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBOGEL	5	SX
BARITE	17	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	325

MACP 8411

MAX HOOKLOAD 85

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	115	1.25	9	CONTINUE SLIP & CUT, CHANGE DRILL LINE CLAMP
115	130	0.25	7	RIG SERVICE FUNCT PIPE RAM C/ 4 SECS
130	215	0.75	6	CONTINUE TRIP IN, FLOW CHECK @ 1027m,
215	300	0.75	22	STEAM KELLY BAR FREE TO FILL PIPE
300	330	0.50	5	FILL PIPE, CIRC KELLY SOCK
330	515	1.75	6	CONTINUE TRIP IN, FLOW @ 1905m
515	530	0.25	5	FILL PIPE
530	800	2.50	6	CONTINUE TRIP IN, FLOW CHECK @ 2800m
800				

Notes: CHECK CRWN SAVER, TONGS & LINES, BRAKE LINKAGE

MORNING SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION. : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002	MONTH 1	DAY 25
RIG NO.: 4		
FUEL @ 08:00 HRS.		
RIG	BOILER	
WEATHER: TEMPERATURE		
CONDITIONS		
WIND DIRECTION		
ROAD CONDITION		

SAFETY TOPIC RUNNING CASING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	
CHANGE SCREENS	YES	NO
TOP 120	TOP 120	
MIDDLE 120	MIDDLE 50	
BOTTOM 50	BOTTOM 50	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						1.75	0.25					4.75									0.25	1.00					8.00
DAY																											
EVE																											
TOTAL						1.75	0.25					4.75									0.25	1.00					8.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.	

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP	4811
MAX HOOKLOAD	35

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	6	POOH SIDEWAYS
145	200	0.25	7	RIG SERVICE FUNCTION BLIND RAMS-3 SEC. TO CLOSE
200	300	1.00	22	WAIT ON TONG TRUCK
300	430	1.50	12	RUN TO RUN CASING
430	445	0.25	21	SAFETY MTG.
445	800	3.25	12	RUN CASING

Notes: FLOW CHECKS @ 186 & 0

CALC.13.05m3 MEAS.-13.85m3 DIFF.-.80m3

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	POOH SIDEWEYS

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Stick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	STEAM KEI	JACK RIG				
MORN					0.75	5.00	0.25		1.25													0.75					8.00
DAY					2.50	5.25															0.25						8.00
EVE						6.50	0.25																1.25				8.00
TOTAL					3.25	16.75	0.50		1.25												0.25	0.75	1.25				24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.25 m
1	BIT SUB	172	0.92 m
6	D.C.	170	55.30 m
15	D.C.	170	138.57 m
1	X.O.	168	0.80 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
92	DRILLPIPE	STANDS	2597.96m
1	DRILLPIPE	SINGLES	9.67 m
KELLY DOWN			4.66 m
TOTAL			2808.13 m
WT. OF D.C.		32	1000 dan
WT. OF STRING		90	1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m | 1.00

MUD RECORD

WATER BASED | OIL BASED X

TIME				
DENSITY kg/m3				
FUNNEL VIS s/l				
W.L. cm/ FILCK				
PH				

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
4800	0.0		152.0	95

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	250

MACP | 4811

MAX HOOKLOAD | 92

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	830	0.50	5	WASH TO BOTTOM (4 SINGLES)
830	1030	2.00	5	COND MUD & CIRC
1030	1045	0.25	21	SAFETY MTG.
1045	1600	5.25	6	POOH SIDEWAYS

Notes: FLOW CHECKS @ 2802,2660,

CALC.-13.05m3 MEAS.-

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
DAVE WILSON	TOM CARRIERE	SAFETY TOPIC	POOH SIDEWAYS

	Opr.	R.M.
(1) Daily Walk Around Inspection	DW	TC
(2) Detailed Inspection-Weekly (Using Check List)	DW	TC
(3) H2S Signs Posted(If Required)	DW	TC
(4) Well License & Slick Diagram Posted	DW	TC
(5) Flare Lines Staked	DW	TC
(6) BOP Drills Preformed	DW	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	DW	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120	TOP 120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	STEAM KEI	JACK RIG				
MORN					0.75	5.00	0.25		1.25													0.75					8.00
DAY					2.50	5.25															0.25						8.00
EVE						6.50	0.25																1.25				8.00
TOTAL					3.25	16.75	0.50		1.25												0.25	0.75	1.25				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
DRAG daN											
TORQUE											
FILL m											

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	0.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	250

MACP 8411

MAX HOOKLOAD 65

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2100	4.75	6	PULL OUT OF HOLE SIDEWAYS
2100	2215	1.25	23	LEVEL RIG WITH ROCKY DAVIS
2215	2400	1.75	6	HOIST SIDEWAYS

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: BOP DRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Ported(If Required)	A	TC
(4) Well License & Stick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flexlines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 23

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

LAST CASING / TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	BOP DRILL					
MORN						3.75					1.50									2.50		0.25					8.00
DAY											8.00																8.00
EVE						5.00	0.25		0.25		2.50																8.00
TOTAL						8.75	0.25		0.25		12.00									2.50		0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
91	DRILLPIPE	STANDS	2569.22m
	DRILLPIPE	SINGLES	m
KELLY DOWN			5.44 m
TOTAL			2808.12 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			94 1000 daN

DRILLERS SIGNATURE: DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	2808.00
TOTAL METER	407.00
TOTAL HOURS	47.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	325

MACP 8411

MAX HOOKLOAD 65

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	145	1.75	6	CONTINUE TRIP OUT TO LOG, FLOW CHECK @ 232m
145	200	0.25	22	BOP DRILL WELL SECURE IN 59 SECS
200	400	2.00	6	TRIP OUT BHA, LAY DOWN JARS
400	630	2.50	20	LAY DOWN DIR. TOOLS
630	800	1.50	11	RIG UP TO & LOG W/ BAKER HUGHES
800				

TRIP CALC 13.5m3 STRAP PASON=2808.13m

ACT 13.66m3 MEASURED=2808.33m

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE

FUNCT. BLIND RAMS WHILE OUT OF HOLE C/ 4 SECS

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	PINCH POINTS

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Slick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 23

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	75	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	BOP DRILL					
MORN						3.75					1.50									2.50		0.25					8.00
DAY											8.00																8.00
EVE						5.00	0.25		0.25		2.50																8.00
TOTAL						8.75	0.25		0.25		12.00									2.50		0.25					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	925	1800
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	930	1780

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP 4811

MAX HOOKLOAD 7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1600	8.00	11	LOG W/BAKER RUN-HDIL-MaC ZDL-CN-GR-XY

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	SLIP & CUT

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 23

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120	TOP 120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	BOP DRILL					
MORN						3.75					1.50									2.50		0.25					8.00
DAY											8.00																8.00
EVE						5.00	0.25		0.25		2.50																8.00
TOTAL						8.75	0.25		0.25		12.00									2.50		0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
1	BIT SUB	172	0.92 m
6	D.C.	170	55.30 m
1	JAR	169	4.74 m
15	D.C.	170	138.57 m
1	X.O.	168	0.80 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
15	DRILLPIPE	STANDS	424.53 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL	625.11	m
	WT. OF D.C.	32	1000 daN
	WT. OF STRING	40	1000 daN

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.												
SIZE (mm)												
IADC CODE												
MFG.												
Type												
SERIAL NO.												
JETS (mm)												
DEPTH IN (m)												
DEPTH OUT (m)												
TOTAL METER												
TOTAL HOURS												
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.			

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2808.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP 8411

MAX HOOKLOAD 40

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1830	2.50	11	LOG W/BAKER
1830	2115	2.75	6	BRING BLOCKS TO FLOOR, SHEAVES STIFF DO TO COLD
2115	2130	0.25	7	RIG SERVICE FUNCT PIPE RAM C/ 4 SECS
2130	2345	2.25	6	TRIP IN BHA, FLOW CHECK @ SURFACE, 633m
2345	2400	0.25	9	CUT OFF DRLL LINE 34.71m

Notes: CHECK CROWN SAVER, TONGS & LINES, BRAKE LINKAGE

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	LIFTING LOADS

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 22

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -42; CONDITIONS LIGHT SNOW; WIND DIRECTION N.E.; ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	TORQUED .					
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			2.50		0.25																				8.00
EVE					0.50	6.50	0.25														0.25	0.50					8.00
TOTAL		12.75			3.00	6.50	0.75			0.25											0.25	0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm 0.25	m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
89	DRILLPIPE	STANDS	2512.11 m
2	DRILLPIPE	SINGLES	m
KELLY DOWN		12.49	m
TOTAL		2758.06	m
WT. OF D.C.		31	1000 daN
WT. OF STRING		94	1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	357.00
TOTAL HOURS	42.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE 170

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	100	300	600
DENSITY kg/m3	940	940	960
FUNNEL VIS s/l	57	57	59
W.L. cm/ FILCK			
PH			
P.V.T	40.60	40.30	39.20

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2704.00	1.40	209.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2695.00	2758.00	D	30	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12700	152.0	65	152.0	65

REDUCED PUMP SPEED: 3000 @ 68 @ 68

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	810	1755
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	855	1720

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP

MAX HOOKLOAD 96

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	2	DRILL 222 MM HOLE FR/ 2695 M TO 2703 M
130	145	0.25	7	RIG SERVICE
145	330	1.75	2	DRILL DRILL 222 MM HOLE FR/ 2703 M TO 2722 M
330	345	0.25	10	DEV. SURVEY
345	800	4.25	2	DRILL 222 MM HOLE FR/ 2722 M TO 2758 M

Notes: RSPP W/ NO ONE PUMP 3000 KPA AT 68 STKS

RSPP W/ NO TWO PUMP 3000 KPA AT 68 STKS

FUNCTION TESTED ANNULAR CLOSED 8 SEC

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well Licensee & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 22

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -42 | CONDITIONS LIGHT SNOW | WIND DIRECTION N.E. | ROAD CONDITION SLIPPERY

SAFETY TOPIC: STEAM

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG/M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	120	120
MIDDLE	120	50
BOTTOM	50	50

RENTALS / SERVICES | Mom | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	TIOUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	TORQUED					
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			2.50		0.25																				8.00
EVE					0.50	6.50	0.25														0.25	0.50					8.00
TOTAL		12.75			3.00	6.50	0.75			0.25											0.25	0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
91	DRILLPIPE	STANDS	2569.22m
	DRILLPIPE	SINGLES	m
KELLY DOWN		5.44	m
TOTAL		2808.12	m
WT. OF D.C.		31	1000 daN
WT. OF STRING		94	1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	2808.00
TOTAL METER	407.00
TOTAL HOURS	47.25
DRAG daN	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	930	1230	1530
DENSITY kg/m3	935	935	935
FUNNEL VIS s/l	54	52	53
W.L. cm/ FILCK			
PH			
PVT	45.20	43.80	42.50

MUD MATERIALS USED

TYPE	QTY	UNITS
BARITE	20	
CARBOGEL	5	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2731.60	1.60	204.8
2790.10	1.50	201.1

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2758.00	2808.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12800	152.0	65	152.0	65

REDUCED PUMP SPEED: 2800 @ 70 @ 2805

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	890	1710
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	855	1760

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP: 4811

MAX HOOKLOAD: 100

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1315	5.25	2	DRILL 222mm HOLE F/2758-T/2808
1315	1330	0.25	7	RIG SERVICE FUNCTION PIPE RAMS-4 SEC. TO CLOSE
1330	1600	2.50	5	ACCUM. CIRCULATING

Notes: TRANSFER 7m3 F/PREMIX - T/MUDTANK

RIG SERVICE DONE WHILE CIRCULATING & FUNCTION ON CONNECTION

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Slick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Performed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 22

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -42 | CONDITIONS LIGHT SNOW | WIND DIRECTION N.E. | ROAD CONDITION SLIPPERY

SAFETY TOPIC: NEW DRILLER

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | STA | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	TORQUED					
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			2.50		0.25																				8.00
EVE					0.50	6.50	0.25														0.25	0.50					8.00
TOTAL		12.75			3.00	6.50	0.75			0.25											0.25	0.50					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X O	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X O.	168	0.80 m
			m
			m
			m
			m
91	DRILLPIPE	STANDS	2569.22m
	DRILLPIPE	SINGLES	m
KELLY DOWN		5.44	m
TOTAL		2808.12	m
WT. OF D.C.		31	1000 dan
WT. OF STRING		94	1000 dan

DRILLERS SIGNATURE | DAVE RUSCHEINSKI

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	2808.00
TOTAL METER	407.00
TOTAL HOURS	47.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG dan	168
TORQUE	116
FILL m	

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2808.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

2800 @ 70 @ 2805

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	350

MACP 4811

MAX HOOKLOAD 101

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1630	0.50	5	CIRCULATE SAMPLE
1630	1900	2.50	6	PUMP PILL & HOIST FOR CSG. (STRAP OUT)
1900	1915	0.25	21	SAFETY MTG. & INTRODUCE NEW DRILLER
1915	2000	0.75	6	TRIP OUT TO LOG (STRAP)
2000	2030	0.50	22	BREAK OVER TORQUED JOINT
2030	2345	3.25	6	TRIP OUT TO LOG (STRAP)
2345	2400	0.25	7	RIG SERVICE

Notes: FLOW CHECKS @2804,2683,1405

WALK AROUND & ORIENT SELF TO RIG

DISCUSED BLOW OUT PROCEDURES WHILE TRIPPING

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	WELL CONTROL

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 21

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		6.00					0.25			1.50											0.25						8.00
EVE		6.75					0.25			1.00																	8.00
TOTAL		20.00					0.75			3.00											0.25						24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D C	170	55.30 m
13	JAR	169	4.74 m
14	15 D C	170	138.57 m
15	X O.	168	0.80 m
			m
			m
			m
			m
83	DRILLPIPE	STANDS	2342.48 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		3.05	m
TOTAL		2579.00	m
OF D.C.		31	1000 daN
WT. OF STRING		94	1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (m/m)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	178.00
TOTAL HOURS	21.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN 8 TH

TORQUE 178

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME	100	400	600
DENSITY (kg/m3)	950	950	950
FUNNEL VIS s/l	57	56	57
W.L. cm/ FILCK			
PH			
	40.00	39.50	39.30

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2524.00	1.30	232.3
2552.00	2.10	244.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2539.00	2579.00	D	30	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
11500	152.0	70	152.0	70

REDUCED PUMP SPEED

2500 @ 68 @ 2575

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	830	1710
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	830	1760

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 4811

MAX HOOKLOAD 96

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	30	0.50	2	DRILL 222mm HOLE FR/ 2539M TO/ 2542M
30	45	0.25	10	SURVEY
45	100	0.25	7	RIG SERVICE
100	530	4.50	2	DRILL 222mm HOLE FR/ 2542M TO/ 2569 M
530	545	0.25	10	DEV. SURVEY
545	800	2.25	2	DRILL 222 MM HOLE FR/ 2569 M TO 2579 M
800				

Notes: FUNCTION LOWER PIPE RAMS CLOSE 4 SEC

RSPP NO. 1 PMP 2500KPA @ 68 STKS

NO. 2 PMP 2500 KPA @ 68 STKS

FUEL AT 0800 2.26 M

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	BOP DRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection CheckList(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 21

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	82.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	
CHANGE SCREENS	YES	NO
TOP 120	TOP 120	
MIDDLE 120	MIDDLE 50	
BOTTOM 50	BOTTOM 50	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		6.00					0.25			1.50											0.25						8.00
EVE		6.75					0.25			1.00																	8.00
TOTAL		20.00					0.75			3.00											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
84	DRILLPIPE	STANDS	2370.97 m
2	DRILLPIPE	SINGLES	19.14 m
KELLY DOWN			13.20 m
TOTAL			2636.77 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			91 1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	235.00
TOTAL HOURS	27.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	T.O.P.

DRAG daN: 4-8 UP 2-

TORQUE: 170

FILL m:

MUD RECORD

	WATER BASED		OIL BASED X	
TIME	930	1200	1600	
DENSITY kg/m3	945	940	940	
FUNNEL VIS s/l	55	53	54	
W.L. cm/ FILCK				
PH				
PVT	46.30	45.30	43.90	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2580.40	2.70	243.5
2590.10	2.70	244.2
2599.60	3.00	235.9
2609.00	2.00	242.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2579.00	2636.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
12200	152.0	70	152.0	70

REDUCED PUMP SPEED

3000 @ 70 @ 2626

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	855	1720
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	810	1760

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP: 4811

MAX HOOKLOAD: 100

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1400	6.00	2	DRILL 222mm HOLE F/2579-T/2636
1400	1415	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 3 SEC.
1415	1545	1.50	10	ACCUM. DEV. SURVEYS
1545	1600	0.25	21	SAFETY MTG. HELD BOP DRILL W/CREW-WELL SECURED IN 80 SEC.
1600				

Notes: CHECK OIL LEVEL IN ACCUM.

CHECK BRAKE PINS & LINKAGE

EVENING SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: PRESSURE LINES

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TG
(2) Detailed Inspection-Weekly (Using Check List)	AI	TG
(3) H2S Signs Posted(If Required)	AI	TG
(4) Well License & Stick Diagram Posted	AI	TG
(5) Flare Lines Staked	AI	TG
(6) BOP Drills Preformed	AI	TG
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TG
(1) Rig Site Health and Safety Meeting (one/crew/month)		TG
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TG
(3) Mast Inspection Before Raising or Lowering		TG
(4) Crown Saver Checked		TG
(5) Motor Kills Checked		TG

YEAR 2002 | MONTH 1 | DAY 21

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	PICKUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
BORN		7.25					0.25			0.50																	8.00
DAY		6.00					0.25			1.50											0.25						8.00
EVE		6.75					0.25			1.00																	8.00
TOTAL		20.00					0.75			3.00											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
87	DRILLPIPE	STANDS	2456.84m
2	DRILLPIPE	SINGLES	m
KELLY DOWN		4.76	m
TOTAL		2695.06	m
D.C.		31	1000 daN
WT. OF STRING		94	1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	294.00
TOTAL HOURS	34.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG daN 8 TH

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1800	2100	2300
DENSITY kg/m3	940	940	940
FUNNEL VIS s/l	53	58	57
W.L. cm/ FILCK			
PH			
PVT	43.40	42.00	41.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2618.70	2.20	242.8
2638.20	2.10	232.5
2648.00	2.40	228.9
2657.80	2.30	230.4
2666.91	2.10	203.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2636.00	2695.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1200	152.0	70	152.0	70

REDUCED PUMP SPEED: 3000 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	855	1720
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	810	1760

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	250

MACP 8411

MAX HOOKLOAD 102

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2245	6.75	2	DRILL F/2636-T/
2245	2300	0.25	7	RIG SERVICE
2300	2400	1.00	10	DEV. SURVEY

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Stick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degreser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002	MONTH 1	DAY 20	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG	BOILER		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

SAFETY TOPIC: COLD WEATHER

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	216.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE | CHANGE SCREENS | YES | NO | TOP 120 | TOP 120 | MIDDLE 120 | MIDDLE 50 | BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.25	6.50	0.25													1.00							8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		14.50			0.25	6.50	0.75			1.00										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	0.25 m
1	222mm STA	222	0.27 m
2	MOTOR	171	7.91 m
3	FLOAT SUB	170	0.76 m
4	3PT REAME	222	1.91 m
5	X.O.	164	0.88 m
6	NMDC	165	9.32 m
7	TRANS SUB	154	1.36 m
8	X.O.	166	0.90 m
9	NMDC	168	9.08 m
10	STAB	171	1.41 m
11	6 D.C	170	55.30 m
12	JAR	169	4.74 m
13	15 D.C	170	138.57 m
14	X.O.	168	0.80 m
15			m
			m
			m
			m
76	DRILLPIPE	STANDS	2145.43m
1	DRILLPIPE	SINGLES	9.23 m
	KELLY DOWN		13.30 m
	TOTAL		2401.42 m
	WT. OF D.C.		31 1000 daN
	WT. OF STRING		84 1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	
DRAG daN	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME	800	1000
DENSITY kg/m3	960	940
FUNNEL VIS s/l	75	66
W.L. cm/ FILCK		
PH		
PVT	41.10	40.70

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2401.00		D		

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0	70	152.0	70

REDUCED PUMP SPEED: @ 70 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	880	1870
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	855	1920

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP: 4811

MAX HOOKLOAD: 87

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	100	1.00	20	MAKE UP BIT NO. 3C , MAKE UP BHA
100	730	6.50	6	RIH W/ BIT NO. 3C
730	745	0.25	7	RIG SERVICE
745	800	0.25	5	BREAK CIRCULATION

Notes: FUNCTION BLIND RAMS W/OUT OF HOLE CLOSE 4 SEC

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						
AL IRONSIDE	TOM CARRIERE						

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Sick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Check list(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 20

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

INVERT

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.25	6.50	0.25													1.00							8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		14.50			0.25	6.50	0.75			1.00										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.27 m
3	MOTOR	171	7.91 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.91 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
79	DRILLPIPE	STANDS	2229.61 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		13.20	m
TOTAL		2476.27	m
WT. OF D.C.		31	1000 daN
WT. OF STRING		89	1000 daN

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	2476.00
TOTAL METER	75.00
TOTAL HOURS	7.25
DRAG daN	3-6 DOWN
TORQUE	160
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

MUD RECORD

		WATER BASED		OIL BASED X
TIME		1000	1330	1600
DENSITY kg/m3		940	935	935
FUNNEL VIS s/l		66	57	55
W.L. cm/ FILCK				
PH				
PVT		40.70	45.40	44.30

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2392.50	0.30	110.1
2411.60	0.90	239.3
2415.30	0.90	239.3
2430.50	0.60	232.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2401.00	2476.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9800	152.0	70	152.0	70

REDUCED PUMP SPEED

3000	@	70	@	2447

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	880	1870
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	885	1900

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP	8411
MAX HOOKLOAD	95

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1515	7.25	2	DRILL 222mm HOLE F/2401-T/2476
1515	1545	0.50	10	ACCUM. DEV. SURVEYS
1545	1600	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 3 SEC.

Notes: TRANSFERRED 12m3 INVERT F/TANK FARM T/PREMIX TANK

TRANSFERRED 6m3 INVERT F/PREMIX - T/MUD TANK

CHECK BRAKE PINS & LINKAGE

DRILLERS SIGNATURE | DENNIS TESSIER

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	WEATHER

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(5) BOP Drills Performed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 20

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	120
MIDDLE	120	50
BOTTOM	50	50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					0.25	6.50	0.25													1.00							8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		14.50			0.25	6.50	0.75			1.00										1.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	222mm STA	222	0.25 m
2	MOTOR	171	0.27 m
3	FLOAT SUB	170	7.91 m
4	3PT REAME	222	0.76 m
5	X.O.	164	1.91 m
6	NMDC	165	0.88 m
7	TRANS SUB	154	9.32 m
8	X.O.	166	1.38 m
9	NMDC	168	0.90 m
10	STAB	171	9.08 m
11	6 D.C	170	1.41 m
12	JAR	169	55.30 m
13	15 D.C	170	4.74 m
14	X.O.	168	138.57 m
15			0.80 m
			m
			m
			m
			m
81	DRILLPIPE	STANDS	2286.08m
1	DRILLPIPE	SINGLES	9.30 m
KELLY DOWN			10.16 m
TOTAL			2539.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			94 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	1718009
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	138.00
TOTAL HOURS	14.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE 175

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1800	2200	2300
DENSITY kg/m3	935	950	950
FUNNEL VIS s/l	54	61	61
W.L. cm/ FILCK			20.0
PH			0.0
PVT	43.40	41.50	41.10

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2458.30	0.70	216.2
2505.50	1.20	227.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2476.00	2539.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1100	152.0	68	152.0	68

REDUCED PUMP SPEED

2500 @ 68 @ 68

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	880	1700
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	890	1880

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD 95

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2315	7.25	2	DRILL 222mm HOLE F/2476-T/ 2539 M
2315	2345	0.50	10	ACCUM. DEV. SURVEYS
2345	2400	0.25	7	RIG SERVICE FUNCTION PIPE RAMS-4 SEC. TO CLOSE

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Stick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 19

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: HEAVY SNOW FALL

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DIV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		4.25			1.00	2.25	0.25			0.25																	8.00
EVE						6.00														2.00							8.00
TOTAL		11.50			1.00	8.25	0.50			0.75										2.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
75	DRILLPIPE	STANDS	2117.40m
1	DRILLPIPE	SINGLES	9.27 m
KELLY DOWN			12.97 m
TOTAL			2373.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			84 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	500-4011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	697.00
TOTAL HOURS	76.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG daN 8

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	130	400	600
DENSITY kg/m3	950	940	950
FUNNEL VIS s/l	60	53	53
W.L. cm/ FILCK			
PH			
P.V.T	39.30	45.00	44.10

MUD MATERIALS USED

TYPE	QTY	UNITS
LIME	30	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2308.10	0.60	100.6
2336.30	1.10	101.1

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2319.00	2373.00	D	35	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
11000	152.0	70	152.0	70

REDUCED PUMP SPEED: 2000 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	820	1680
HOURS	INTAKE	OVERFLOW	UNDERFLOW
	940	790	1720

BOILER

HRS. RUN	PH	STACK deg
9.00	10.0	340

MACP 8411

MAX HOOKLOAD 92

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	100	1.00	2	DRILL 222 MM HOLE FR/ 2319 M TO 2326 M
100	115	0.25	7	RIG SERVICE
115	130	0.25	10	DEV. SURVEY
130	515	3.75	2	DRILL 222 MM HOLE FR/ 2326 M TO 2354 M
515	530	0.25	10	DEV. SURVEY
530	800	2.50	2	DRILL 222 MM HOLE FR/ 2354 M TO 2373 M
800				

Notes: CLOSED LOWER PIPE RAMS IN 4 SEC

RSPP W/ NO ONE PUMP 2000 KPA AT 70 STKS

RSPP W/ NO TWO PUMP 2000 KPA AT 70 STKS

TRANSFERD 5.6 M3 INVERT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: TRIPPING

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Slick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 19

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC, DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
	OPER.	INSTALL & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING					
	MORN		7.75					0.25			0.50																8.00
	DAY		4.25			1.00	2.25	0.25			0.25																8.00
	EVE						6.00														2.00						8.00
	TOTAL		11.50			1.00	8.25	0.50			0.75										2.00						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D C	170	55.30 m
13	JAR	169	4.74 m
14	15 D C	170	138.57 m
15	X O	168	0.80 m
			m
			m
			m
			m
76	DRILLPIPE	STANDS	2145.43m
1	DRILLPIPE	SINGLES	9.23 m
	KELLY DOWN		13.30 m
	TOTAL		2401.32 m
	WT. OF D./...		31 1000 dan
	WT. OF STRING		84 1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	2	3
SIZE (mm)	222.0	222.0
IADC CODE	5 1 7	5 3 7
MFG.	WESTERN	VAREL
Type	HX-S20	ETD34-XG
SERIAL NO.	500-4011	171809
JETS (mm)	16 16 16	16 16 16
DEPTH IN (m)	1622.00	
DEPTH OUT (m)	2401.00	
TOTAL METER	779.00	
TOTAL HOURS	81.00	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.

DRAG dan 2-6 UP & D

TORQUE 135

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	900	1300	
DENSITY kg/m3	950	940	
FUNNEL VIS s/l	52	53	
W.L. cm/ FILCK			
PH			
PVT	42.40	41.10	

MUD MATERIALS USED

TYPE	QTY	UNITS
BARITE	20	SX
CARBOGEL	5	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2364.60	1.50	64.9
2374.00	1.70	63.7
2383.30	1.30	74.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2373.00	2401.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9600	152.0	70	152.0	70

REDUCED PUMP SPEED

3100 @ 70 @ 2381

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP 4811

MAX HOOKLOAD 90

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1215	4.25	2	DRILL 222mm HOLE F/2373-T/2401
1215	1230	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 3 SEC.
1230	1245	0.25	10	ACCUM. DEV. SURVEYS
1245	1345	1.00	5	CIRC. UP SAMPLE & PUMP PILL
1345	1600	2.25	6	POOH (BIT TRIP)

Notes: FLOW CHECKS @2387,2255,

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flexelines & Degasser Lines

Opr.	R.M.
AI	TC
AI	TC
AI	TC
AI	TC
AI	TC
AI	TC
AI	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	TC
	TC
	TC
	TC
	TC

YEAR 2002 | MONTH 1 | DAY 19

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: TRIPPING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		4.25			1.00	2.25	0.25			0.25																	8.00
EVE						6.00														2.00							8.00
TOTAL		11.50			1.00	8.25	0.50		.	0.75										2.00							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
76	DRILLPIPE	STANDS	2145.43m
1	DRILLPIPE	SINGLES	9.23 m
KELLY DOWN			13.30 m
TOTAL			2401.32 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			84 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	222.0
IADC CODE	5 3 7
MFG.	VAREL
Type	ETD34-XG
SERIAL NO.	171809
JETS (mm)	16 16 16
DEPTH IN (m)	2401.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2401.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	350

MACP 4811

MAX HOOKLOAD 92

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2200	6.00	6	POOH (BIT TRIP)
2200	2400	2.00	20	LAY DOWN DIRECTIONAL TOOLS, PICK UP SAME
2400				

Notes: FLOW CHECKS @ 1185,

FUEL @ 18:00 - 1.90m

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: STEAM

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Preformed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Snc Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 18

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	82.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50								0.50																	8.00
TOTAL		22.25					0.50			1.25																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D C	170	55.30 m
13	JAR	169	4.74 m
14	15 D C	170	138.57 m
15	X O	168	0.80 m
			m
			m
			m
			m
67	DRILLPIPE	STANDS	1891.50 m
1	DRILLPIPE	SINGLES	9.43 m
	KELLY DOWN	13.30	m
	TOTAL	2147.59	m
	WT. OF D.C.	31	1000 daN
	WT. OF STRING	78	1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	500-4011
JETS (mm)	15 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	568.00
TOTAL HOURS	54.50

MAKE	IN	OUT	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	ROP
DRAG daN	8 TH				2138.90				
TORQUE	125				2167.40	1.20	64		
FILL m									

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	1	3	6
DENSITY kg/m3	930	940	920
FUNNEL VIS s/l	62	58	54
W.L. cm/ FILCK			
PH			
PVT	43.20	42.10	41.60

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
	1.00	54.2

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2147.00	2190.00	D	35	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9900	152.0	70	152.0	79
REDUCED PUMP SPEED				
2000	@	70	@	70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	840	1740
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	830	1780

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 8411

MAX HOOKLOAD 85

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	230	2.50	2	DRILL 222MM HOLE FR/ 2147 M TO 2156 M
230	245	0.25	7	RIG SERVICE
245	300	0.25	10	DEV. SURVEY
300	745	4.75	2	DRILL 222 MM HOLE FR/ 2156M TO 2190
745	800	0.25	10	DEV. SURVEY

Notes: RSPP W/ NO ONE PUMP AT 70 STKS 2000 KPA

RSPP W/ NO TWO PUMP AT 70 STKS 2000 KPA

FUNCTION TESTED ANNULAR CLOSED 8 SEC

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	TOM CARRIERE

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	P.M.
Al	TC
Al	TC
Al	TC
Al	TC
Al	TC
Al	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TC			
TC			
TC			
TC			
TC			

YEAR 2002 | MONTH 1 | DAY 18

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: MSDS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50								0.50																	8.00
TOTAL		22.25					0.50			1.25																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
71	DRILLPIPE	STANDS	2004.49m
1	DRILLPIPE	SINGLES	9.23 m
KELLY DOWN			13.30 m
TOTAL			2260.38 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			81 1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	500-4011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	638.00
TOTAL HOURS	62.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan	2-4 UP & D
TORQUE	130
FILL m	

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	900	1300	1600
DENSITY kg/m3	940	935	945
FUNNEL VIS s/l	52	53	50
W.L. cm/ FILCK			
PH			
PVT	39.60	41.60	43.70

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	30	SX
LIME	30	SX
CARBOMUL	1	BBL
CARBOTEC	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2195.90	0.50	104.6
2224.00	0.70	115.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2190.00	2260.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9700	152.0	70	152.0	70

REDUCED PUMP SPEED

3100 @ 70 @ 2240

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 8411

MAX HOOKLOAD 85

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1530	7.50	2	DRILL 222mm HOLE F/2190-T/2260
1530	1545	0.25	7	RIG SERVICE FUNCTION PIPE RAMS-4 SEC. TO CLOSE
1545	1600	0.25	10	ACCUM. DEV. SURVEYS

Notes: CHECK BRAKE PINS & LINKAGE
TRANSFER 6m3 INVERT FROM PREMIX TANK TO MUD TANK
VISUAL INSPECTION OF FLARE & DEGASSER LINES

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	TRAPPED TORQUE

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Stick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 18

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
	244.5	226.6	53.57	TAMSA	K-55	74	1029.82	6.37	1028.00

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50								0.50																	8.00
TOTAL		22.25					0.50			1.25																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
73	DRILLPIPE	STANDS	2060.43m
2	DRILLPIPE	SINGLES	19.03 m
KELLY DOWN			6.18 m
TOTAL			2319.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			84 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	500-4011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	697.00
TOTAL HOURS	69.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN | 9 TH

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1800	2200	2300
DENSITY kg/m3	935	950	950
FUNNEL VIS s/l	55	54	55
W.L. cm/ FILCK			25.0
PH			
PVT	42.70	40.90	40.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2251.60	0.80	111.9
2279.80	0.50	111.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2260.00	2319.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1100	152.0	70	152.0	70

REDUCED PUMP SPEED: 2000 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	840	1740
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	950	800	1810

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD 92

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1700	1.00	2	DRILL 222mm HOLE F/2260-T/ 2269 M
1700	1715	0.25	10	DEV. SURVEY
1715	2045	3.50	2	DRILL 222 MM HOLE FR/ 2269 M TO 2097 M
2045	2100	0.25	10	DEV. SURVEY
2100	2400	3.00	2	DRILL 222 MM HOLE FR/ 2297 M TO 2319
2400				

Notes: PUMPED 18m3 FROM 400 BRRL. TO PREMIX TANK

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: INVERT FLASHPOINT

	Opr.	P.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Preformed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 17

RIG #0.: 4

FUEL @ 08:00 HRS.

RIG 200 | BOILER

WEATHER: TEMPERATURE -15 | CONDITIONS CLOUDY | WIND DIRECTION NORTH | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC, DP SIZE	KG/M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Nom	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.00					0.25			0.75																	8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.25											0.25						8.00
TOTAL		21.50					0.75			1.50											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.mm	
1	BIT/ MILLS		0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
63	DRILLPIPE	STANDS	1778.41m
	DRILLPIPE	SINGLES	m
KELLY DOWN			13.30 m
TOTAL			2025.07 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			73 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	2 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	50040112
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	403.00
TOTAL HOURS	40.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	200	400	600
DENSITY kg/m3	930	930	930
FUNNEL VIS s/l	54	56	53
W.L cm/ FILCK			
PH			
P.V.T.	40.00	45.20	44.40

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	6	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1922.70	1.60	347.3
1941.20	1.50	2.2
1959.60	1.40	5.4
1987.90	1.50	4.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1940.00	2025.00	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
11000	152.0	69	152.0	69

REDUCED PUMP SPEED

2880 @ 1939 @ 69

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	930	880	1750
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	930	890	1850

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	345

MACP 8411

MAX HOOKLOAD 79

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION HCR O-C 3secs.
15	715	7.00	2	DRILL 222mm HOLE FROM 1940m TO
715	800	0.75	10	ACCUMULATED SURVEY TIME

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

TRANSFER 6m3 FROM PREMIX TO ACTIVE

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: PINCH POINTS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stack Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Preformed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 17

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 200 | BOILER

WEATHER: TEMPERATURE -15 | CONDITIONS CLOUDY | WIND DIRECTION NORTH | ROAD CONDITION ICE

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.00					0.25			0.75																	8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.25											0.25						8.00
TOTAL		21.50					0.75			1.50											0.25						24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
65	DRILLPIPE	STANDS	1835.01m
1	DRILLPIPE	SINGLES	9.57 m
KELLY DOWN			13.06 m
TOTAL			2091.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			78 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	1940.00
TOTAL MTSER	318.00
TOTAL HOURS	40.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | | OIL BASED | X

TIME	1000	1300
DENSITY kg/m3	940	940
FUNNEL VIS s/l	65	57
W.L cm/ FILCK		
PH		
P. V.T	42.00	41.10

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2007.10	1.50	7.4
2026.20	1.40	9.9
2045.16	1.30	10.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2023.00	2091.00	D	35	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1100	152.0	70	152.0	70

REDUCED PUMP SPEED: 3500 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	850	1760
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	820	1830

BOILER

HRS. RUN	PH	STACK deg
6.00	10.5	340

MACP 8411

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	900	1.00	2	DRILL 222 MM HOLE FR/ 2023 M TO 2044M
900	915	0.25	7	RIG SERVICE
915	930	0.25	10	DEV. SURVEY
930	1130	2.00	2	DRILL 222mm HOLE FR/ 2044M TO 2063 M
1130	1145	0.25	10	DEV. SURVEY
1145	1600	4.25	2	DRILL 222 MM HOLE FR/ 2063 M TO 2091m
1600				

Notes: FUNCTION TESTED LOWER PIPE RAMS CLOSED 4 SEC.

RSPP PMP 1 3500 KPA @ 70 STKS

PMP 2 3500 KPA @ 70 STKS

W/ HIGH TOURQUE IN DRLG STRING DRILLER PICKED UP SENDING TABLE BUSHING

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: BOP DRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 17

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 200 | BOILER

WEATHER: TEMPERATURE -15 | CONDITIONS CLOUDY | WIND DIRECTION NORTH | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	158	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.00					0.25			0.75																	8.00
DAY		7.25					0.25			0.50																	8.00
EVE		7.25					0.25			0.25											0.25						8.00
TOTAL		21.50					0.75			1.50											0.25						24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
1	222mm STA	222	0.25	m
2	MOTOR	171	0.24	m
3	FLOAT SUB	170	7.86	m
4	3PT REAME	222	0.76	m
5	X O.	164	1.89	m
6	NMDC	165	0.88	m
7	TRANS SUB	154	9.32	m
8	X.O.	166	1.36	m
9	NMDC	168	0.90	m
10	STAB	171	9.08	m
11	6 D.C	170	1.41	m
12	JAR	169	55.30	m
13	15 D.C	170	4.74	m
14	X O.	168	138.57	m
15			0.80	m
				m
				m
				m
				m
67	DRILLPIPE	STANDS	1891.50	m
1	DRILLPIPE	SINGLES	9.43	m
KELLY DOWN			13.30	m
TOTAL			2147.59	m
WT. OF D.C.			31	1000 daN
WT. OF STRING			78	1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	2138.00
TOTAL METER	516.00
TOTAL HOURS	47.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan 3-5 UP & D

TORQUE 130

FILL m

MUD RECORD

	WATER BASED		OIL BASED X	
TIME	1800	2030	2230	
DENSITY kg/m3	935	940	930	
FUNNEL VIS s/l	61	60	58	
W.L. cm/ FILCK				
PH				
		44.50	44.40	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
2073.20	1.20	27.3
2110.70	1.00	54.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
2091.00	2147.00	D	20	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9900	152.0	70	152.0	70

REDUCED PUMP SPEED

2800 @ 70 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	920	1770
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	935	930	1790

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 4811

MAX HOOKLOAD 83

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2315	7.25	2	DRILL 222mm hole F/2091-T/2147
2315	2330	0.25	7	RIG SERVICE FUNCTION ANNULAR-11 SEC. TO CLOSE
2330	2345	0.25	10	ACCUM. SURVEYS
2345	2400	0.25	21	SAFETY MTG.(BOP DRILL)
2400				

Notes: TRANSFER 7.0m3 FROM PREMIX TANK TO MUDTANK

HELD BOP DRILL W/CREW-WELL SECURED IN 88 SEC.

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 16

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 256 | BOILER 360

WEATHER: TEMPERATURE -18 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: CHECKING S. PINS

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MAHUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.25								0.75																	8.00
TOTAL		21.50					0.50			2.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
1	BIT/ MILLS	O.D.mm	0.25	m
2	222mm STA	222	0.24	m
3	MOTOR	171	7.86	m
4	FLOAT SUB	170	0.76	m
5	3PT REAME	222	1.89	m
6	X O.	164	0.88	m
7	NMDC	165	9.32	m
8	TRANS SUB	154	1.36	m
9	X O.	166	0.90	m
10	NMDC	168	9.08	m
11	STAB	171	1.41	m
12	6 D C	170	55.30	m
13	JAR	169	4.74	m
14	15 D C	170	138.57	m
15	X O.	168	0.80	m
				m
				m
				m
				m
55	DRILLPIPE	STANDS	1553.80	m
	DRILLPIPE	SINGLES		m
KELLY DOWN			13.30	m
TOTAL			1800.46	m
WT. OF D.C.			31	1000 daN
WT. OF STRING			68	1000 daN

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	15 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	1800.00
TOTAL METER	178.00
TOTAL HOURS	18.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	P.O.P.

DRAG daN

TORQUE

FILL m

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	200	400	600
DENSITY kg/m3	920	920	920
FUNNEL VIS s/l	61	61	60
W.L. cm/ FILCK			
PH			
P.V.T.	44.40	43.20	42.50

MUD MATERIALS USED

TYPE	QTY	UNITS
LIME	20	SX
INVERT	47	M3
CARBOMUL	1	BBL
CARBOTEC	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1726.60	1.60	65.4
1754.30	1.90	52.4
1782.50	1.90	56.2

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1730.00	1800.00	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10500	152.0	69	152.0	69

REDUCED PUMP SPEED

2750 @ 1730 @ 69

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	870	1720
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	870	1840

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	365

MACP 8411

MAX HOOKLOAD 70

TIME LOG

FROM	TO	ELAPS. TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE - FUNCTION LOWER PIPE RAMS C-O 8 secs.
15	730	7.25	2	DRILL 222mm HOLE FROM 1730m TO 1800m
730	800	0.50	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

TRANSFERED 7 m3 FROM PREMIX TO ACTIVE

40m3 TRANSFERED FROM TANK FARM TO PREMIX

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	SAFETY TOPIC: ICY CONDITIONS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Slick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Performed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 16

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 256 | BOILER 360

WEATHER: TEMPERATURE -18 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO X

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.25								0.75																	8.00
TOTAL		21.50					0.50			2.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
57	DRILLPIPE	STANDS	1608.63m
2	DRILLPIPE	SINGLES	18.50 m
KELLY DOWN			12.51 m
TOTAL			1873.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			72 1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	1730.00
TOTAL METER	108.00
TOTAL HOURS	25.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan 2 TH

TORQUE

FILL m

MUD RECORD

	WATER BASED	OIL BASED X
TIME	930	1330
DENSITY kg/m3	940	940
FUNNEL VIS s/l	70	62
W.L. cm/ FILCK		
PH		
P.V.T.	39.90	41.60

MUD MATERIALS USED

TYPE	QTY	UNITS
BASE OIL	5	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1810.00	1.70	72
1829.00	1.70	73.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1800.00	1873.00	D	35	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10500	152.0	70	152.0	70

REDUCED PUMP SPEED

1500 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	880	1710
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	940	830	1760

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD 74

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	915	1.25	2	DRILL 222MM HOLE FR/ 1800 M TO 1809 M
915	930	0.25	7	RIG SERVICE
930	1100	1.50	2	DRILL 222 MM 1809 M TO 1828 M
1100	1115	0.25	10	DEV. SURVEY AT 1810 M INC. 1.7 AZI 72.0
1115	1245	1.50	2	DRILL FR/ 1828M TO1847 M
1245	1315	0.50	10	DEV. SURVEY
1315	1500	1.75	2	DRILL 222mm HOLE FR/ 1847 TO/ 1985 M
1500	1500	0.00	10	DEV. SURVEY CHECK SHOT
1500	1600	1.00	2	DRILL FR/ 1885 M TO
1600				

Notes: FUNCTION TESTED UPPER PIPE RAMS CLOSED 4 SEC.

RSPP W/NO ONE PUMP 70 STKS 1500 KPA

RSPP W/ NO TWO PUMP 70 STKS 1500 KPA

CHECK MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931 | WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD. | CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122 | UNIQUE I.D.: J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) | CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

AL IRONSIDE | BOB ROGERS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crewmonth)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 16

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 256 | BOILER 360

WEATHER: TEMPERATURE -18 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: INVERT FLASHPOINT

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.25					0.25			0.50																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.25								0.75																	8.00
TOTAL		21.50					0.50			2.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
60	DRILLPIPE	STANDS	1694.03m
	DRILLPIPE	SINGLES	m
KELLY DOWN		12.61	m
TOTAL		1940.00	m
WT. OF D.C.		31	1000 dan
WT. OF STRING		72	1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	1940.00
TOTAL METER	318.00
TOTAL HOURS	33.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME	1800	2130	2330
DENSITY kg/m3	930	930	930
FUNNEL VIS s/l	58	55	55
W.L. cm/ FILCK			
PH			
PVT		39.30	40.10

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBOMUL	1	BBL
CARBOTEC	4	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1856.80	2.20	67.3
1866.50	2.70	61.8
1875.90	3.50	56.4
1885.00	3.60	50.2
1913.60	1.70	343.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1873.00	1940.00	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10700	152.0	69	152.0	69

REDUCED PUMP SPEED: 2880 @ 1939 @ 69

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	930	870	1710
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	930	830	1770

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP 8411

MAX HOOKLOAD 78

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1630	0.50	2	DRILL 222mm HOLE FR/ 1873 TO/ 1874
1630	1645	0.25	10	DEV. SURVEY
1645	1745	1.00	2	DRILL 222 MM HOLE FR/ 1874 M TO 1884M
1745	1800	0.25	10	DEV. SURVEY
1800	1845	0.75	2	DRILL/SLIDE 222mm HOLE FR/ 1884M TO 1893 M
1845	1900	0.25	10	DEV. SURVEY
1900	2400	5.00	2	DRILL AND SLIDE FR/ 1893 M TO 1940 M
2400				

Notes: TRANSFERED 4m3 FROM PREMIX TO ACTIVE

CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931 | WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD. | CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122 | UNIQUE I.D.: J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) | CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

AL IRONSIDE | BOB ROGERS | SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 15

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.00	0.25															0.75					8.00
DAY		3.75				2.50	1.00			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		10.75				9.50	1.50			1.50												0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
46	DRILLPIPE	STANDS	1356.82m
1	DRILLPIPE	SINGLES	18.86 m
KELLY DOWN			13.29 m
TOTAL			1622.33 m
WT. OF D.C.			31 1000 dan
WT. OF STRING			67 1000 dan

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	100		
DENSITY kg/m3	910		
FUNNEL VIS s/l	61		
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
MILGEL	3	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	345

MACP 8411

MAX HOOKLOAD 63

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	100	0.75	22	UNTHAW FROZEN KELLY SOCK
100	800	7.00	6	TRIP OUT OF HOLE FOR BIT-HANDLE TOOLS- RUN IN HOLE
800				
				FLOW CHECKS @ 1609m,1492m,927m,242m,0m
				TRIP RECORD -MEASURED 9.99m3
				-CALCULATED 8.99m3
				-DIFFERENCE 1.0m3

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	HOUSEKEEPING

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Performed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 15

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.00	0.25															0.75					8.00
DAY		3.75				2.50	1.00			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		10.75				9.50	1.50			1.50												0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	168	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
50	DRILLPIPE	STANDS	1413.10m
1	DRILLPIPE	SINGLES	9.40 m
KELLY DOWN			8.14 m
TOTAL			1664.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			67 1000 daN
DRILLERS SIGNATURE		HARVEY PATTON	

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	
TOTAL METER	42.00
TOTAL HOURS	3.75
DRAG dan	2000
TORQUE	
FILL m	0.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED | OIL BASED X

TIME	1200	1500
DENSITY kg/m3	930	920
FUNNEL VIS s/l	89	68
W.L. cm/ FILCK		
PH		

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1623.10	2.00	65.6
1641.80	2.00	67.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1622.00	1664.00	D	30	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10500	152.0	70	152.0	70

REDUCED PUMP SPEED

1500 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	820	1830

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	820	1830

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	340

MACP 8411

MAX HOOKLOAD 67

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	900	1.00	6	TRIPS RIH
900	1000	1.00	7	PU/KELLY FILL PIPE, CHANGE OUT KELLY STRIPPER, RIG SERVICE
1000	1115	1.25	6	TRIPS RIH
1115	1130	0.25	6	PU/ KELLY, BREAK CIRCULATION
1130	1315	1.75	2	DRILL 222mm HOLE FR/1622m TO/ 1640m
1315	1330	0.25	10	CIRCULATE SURVEY
1330	1500	1.50	2	DRILL 222mm HOLE FR/ 1640 TO/ 1659 M
1500	1530	0.50	10	SURVEY AT 1651M
1530	1600	0.50	2	DRILL FR/1659 TO 1664M
1600		0.00		

Notes: FUNCTION TEST ANNULAR CLOSED 8 SEC

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Slick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Performed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 15

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION ICE

SAFETY TOPIC: CHECKING S. PINS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN						7.00	0.25															0.75					8.00
DAY		3.75				2.50	1.00			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		10.75				9.50	1.50			1.50												0.75					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
			m
52	DRILLPIPE	STANDS	1469.48m
2	DRILLPIPE	SINGLES	18.85 m
KELLY DOWN			8.33 m
TOTAL			1730.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			67 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	222.0
IADC CODE	5 1 7
MFG.	WESTERN
Type	HX-S20
SERIAL NO.	5004011
JETS (mm)	16 16 16
DEPTH IN (m)	1622.00
DEPTH OUT (m)	1730.00
TOTAL METER	108.00
TOTAL HOURS	10.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	1800	2200	2400
DENSITY kg/m3	920	920	920
FUNNEL VIS s/l	67	61	60
W.L cm/ FILCK			
PH			
PVT		43.50	46.00

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1670.00	2.00	61.0
1698.10	2.00	54.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1664.00	1730.00	D	30	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10500	152.0	69	152.0	69

REDUCED PUMP SPEED

2750 @ 1733 @ 69

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	800	1750
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	920	800	1750

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD 69

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2315	7.00	2	DRILL 222mm HOLE FROM 1664m TO 1730m
2315	2400	0.75	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	BR
(2) Detailed Inspection-Weekly (Using Check List)	AI	BR
(3) H2S Signs Posted(If Required)	AI	BR
(4) Well License & Stick Diagram Posted	AI	BR
(5) Flare Lines Staked	AI	BR
(6) BOP Drills Preformed	AI	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002	MONTH 1	DAY 14	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 134	BOILER		
WEATHER: TEMPERATURE 2			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

SAFETY TOPIC: STEAM

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2	TYPE DFS	TYPE	
CHANGE SCREENS		YES	NO
TOP 120	TOP 120		
MIDDLE 120	MIDDLE 50		
BOTTOM 50	BOTTOM 50		

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CORD. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING				8		
MORN		6.75					0.25			1.00																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		20.75					0.75			2.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
44	DRILLPIPE	STANDS	1242.65m
	DRILLPIPE	SINGLES	12.99 m
	KELLY DOWN		m
	TOTAL	1490.00	m
	WT. OF D.C.	31	1000 dan
	WT. OF STRING	57	1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	463.00
TOTAL HOURS	47.00
DRAG dan	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

	WATER BASED X		OIL BASED X
TIME	200		600
DENSITY kg/m3	900		910
FUNNEL VIS s/l	64		65
W.L. cm/ FILCK			
PH			
PVT	38.60		41.60

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	5	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1406.10	1.10	234
1415.00	1.00	146.6
1434.50	3.00	106.6
1443.70	3.20	100.6
1453.40	2.90	95

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1420.00	1490.00	D	30	16

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10000	152.0	69	152.0	69

REDUCED PUMP SPEED

2720	@	4	@	70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	870	1690
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	870	1870

BOILER HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP	8411
MAX HOOKLOAD	63

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION HCR O/C 2 secs.
15	700	6.75	2	DRILL 222mm HOLE FROM 1420m TO 1490m
700	800	1.00	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Srte Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 14

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 134 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 120 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING				8		
MORN		6.75					0.25			1.00																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		20.75					0.75			2.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
46	DRILLPIPE	STANDS	1309.62m
1	DRILLPIPE	SINGLES	9.29 m
KELLY DOWN			7.73 m
TOTAL			1560.00 m
WT. OF D.C.			31 1000 dan
WT. OF STRING			65 1000 dan
DRILLERS SIGNATURE			HARVEY PATTON

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	533.00
TOTAL HOURS	54.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1030	1200	1500
DENSITY kg/m3	910	910	910
FUNNEL VIS s/l	65	65	65
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1472.31	2.70	91.9
1491.00	2.50	90.50
1529.10	2.20	102.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1490.00	1560.00	D	25	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10700	152.0	70	152.0	70

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	830	1730
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	830	1730

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	340

MACP 3374

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	915	1.25	2	DRILL 222MM HOLE FR/ 1490M TO1499M
915	930	0.25	7	RIG SERVICE
930	1330	4.00	2	DRILL 222 MM HOLE FR/ 1499 M TO 1537 M
1330	1345	0.25	10	DEV. SURVEY
1345	1430	0.75	2	DRILL 222 MM HOLE FR/ 1537 MM TO1547 M
1430	1500	0.50	10	DEV. SURVEY
1500	1600	1.00	2	DRILL 222 MM HOLE FR/ 1547 M TO 1560 M
1600				

Notes: RSPP W/ NO ONE PUMP 1500 KPA AT 70 STKS/

RSPP W/ NO TWO PUMP 1500 KPA AT 70 STKS/

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	WHIMIS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well Licenses & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 14

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 134 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC , DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING				8		
MORN		6.75					0.25			1.00																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		20.75					0.75			2.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
48	DRILLPIPE	STANDS	1366.09m
1	DRILLPIPE	SINGLES	9.59 m
KELLY DOWN			13.29 m
TOTAL			1622.33 m
WT. OF D.C.			31 1000 dan
WT. OF STRING			65 1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	1622.00
TOTAL METER	595.00
TOTAL HOURS	61.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan	3
TORQUE	
FILL m	

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	1900	2100	2300
DENSITY kg/m3	910	910	
FUNNEL VIS s/l	64	62	
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	11	M3
BARITE	30	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1547.60	21.00	95,2
1576.10	2.20	84.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1560.00	1622.00	D	25	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10600	152.0	70	152.0	70

REDUCED PUMP SPEED

2810 @ 1593 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	840	1720
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	840	1740

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP 8411

MAX HOOKLOAD 65

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2315	7.00	2	DRILL 222mm HOLE FROM 1560m to
2315	2400	0.75	10	ACCUMULATED SURVEY TIME

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	TABLE TOURQUE

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Slick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 13

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 184 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . I'P SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING					2	
MORN		7.25					0.25			0.50																	8.00
DAY		7.00						0.75							0.25												8.00
EVE		7.75								0.75																	8.50
TOTAL		22.00					0.25	0.75		1.25					0.25												24.50

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm		
1	BIT	222	0.25	m
2	222mm STA	222	0.24	m
3	MOTOR	171	7.86	m
4	FLOAT SUB	170	0.76	m
5	3PT REAME	222	1.89	m
6	X O	164	0.88	m
7	NMDC	165	9.32	m
8	TRANS SUB	154	1.36	m
9	X O	168	0.90	m
10	NMDC	168	9.08	m
11	STAB	171	1.41	m
12	6 D C	170	55.30	m
13	JAR	169	4.74	m
14	15 D C	170	138.57	m
15	X O	168	0.80	m
				m
				m
				m
37	DRILLPIPE	STANDS	1046.49	m
1	DRILLPIPE	SINGLES	9.24	m
KELLY DOWN			4.91	m
TOTAL			1294.00	m
WT. OF D.C.			31	1000 dan
WT. OF STRING			58	1000 dan

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F358
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	33.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	200	400
DENSITY kg/m3	890	890
FUNNEL VIS s/l	58	57
W.L. cm/ FILCK	2.0	
PH		
PVT	42.20	41.20

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	40	SX
CARBOTEC	1	BBL
CARBOMUL	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1218.90	0.40	238.7
1246.10	0.40	146.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1230.00	1294.00	D	30	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9800	152.0	70	152.0	70

REDUCED PUMP SPEED

2300 @ 1205 @ 65

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	870	1750
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	880	1810

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP 8411

MAX HOOKLOAD 58

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION LOWER PIPE RAMS C/O 7 secs.
15	730	7.25	2	DRILL 222mm HOLE FROM 1230m TO 1294m
730	800	0.50	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 13

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 184 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: SAFETY GLASSES

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . OP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING					2	
MORN		7.25					0.25			0.50																	8.00
DAY		7.00						0.75							0.25												8.00
EVE		7.75								0.75																	8.50
TOTAL		22.00					0.25	0.75		1.25					0.25												24.50

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
39	DRILLPIPE	STANDS	1102.63m
2	DRILLPIPE	SINGLES	18.38 m
KELLY DOWN			4.63 m
TOTAL			1359.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			59 1000 daN
DRILLERS SIGNATURE			HARVEY PATTON

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	332.00
TOTAL HOURS	40.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	1000	1300	1600
DENSITY kg/m3	910	890	900
FUNNEL VIS s/l	71	63	65
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
PRE MIX	3	M3

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1312.40	0.60	203.3
1340.40	0.90	226.4

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1294.00	1359.00	D	29	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
10000	152.0	70	152.0	70

REDUCED PUMP SPEED: 1500 @ 70 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	810	1760
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	910	810	1750

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	8	REPAIR RIG, WORK ON SCR
845	1115	2.50	2	DRILL 222mm HOLE FR/129 TO 1321m
1115	1130	0.25	15	BOP DRILL WELL SECURED 1MIN 20SEC
1130	1230	1.00	2	DRILL 222mm HOLE FR/1321 TO/1330
1230	1300	0.50	2	DRILLSLIDE FR/1330 TO 1333M
1300	1430	1.50	2	DRILL 222MM HOLE FR/ 1333M TO 1349M
1430	1500	0.50	2	SLIDE FR/ 1349 TO 1352M
1500	1545	0.75	2	DRILL 222MM HOLE FR/ 1352M TO1358M
1545	1600	0.25	2	SLIDE FR/1358M 1359M
1600				

Notes: RSPP WITH NO ONE AND NO TWO PUMP 70 STKS 1500 KPA

ANNULAR CLOSED 8 SEC

EVENING SHIFT

LICENCE NO.: 1931 | WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD. | CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122 | UNIQUE I.D.: J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) — AL IRONSIDE

CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) — BOB ROGERS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Slick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Performed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 13

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 184 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: SLIPPERY SURFACES

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING					2	
MORN		7.25					0.25			0.50																	8.00
DAY		7.00						0.75							0.25												8.00
EVE		7.75								0.75																	8.50
TOTAL		22.00					0.25	0.75		1.25					0.25												24.50

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
41	DRILLPIPE	STANDS	1158.69m
2	DRILLPIPE	SINGLES	18.95 m
KELLY DOWN			9.00 m
TOTAL			1420.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			57 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	393.00
TOTAL HOURS	46.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan	
TORQUE	
FILL m	

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	1800	2200	
DENSITY kg/m3	900	900	
FUNNEL VIS s/l	68	64	
W.L. cm/ FILCK			
PH			
		40.00	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1349.70	1.20	229.2
1377.70	2.10	219.8
1387.40	2.30	238.2
1396.60	2.20	243

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1359.00	1420.00	D	22	18

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9700	152.0	70	152.0	70

REDUCED PUMP SPEED: 2720 @ 1394 @ 70

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	900	830	1690
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	900	830	1680

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP: 8411

MAX HOOKLOAD: 62

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1730	1.50	2	drill 222mm hole fr/ 1359m to 1367m
1730	1815	0.75	10	ACCUMULATED SURVEY TIME
1745	2400	6.25	2	DRILL 222mm FR/ 1367m TO 1420m
2400				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	SAFETY GLASSES

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Performed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002	MONTH 1	DAY 12	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 240	BOILER		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES / NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25								1.00												8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		21.50					0.75			0.75					1.00												24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
30	DRILLPIPE	STANDS	846.78 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		9.86	m
TOTAL		1090.00	m
WT. OF D.C.		31	1000 dan
WT. OF STRING		50	1000 dan
DRILLERS SIGNATURE		NEIL L'HIRONDELLE	

BIT RECORD

BIT NO.	1 C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	63.00
TOTAL HOURS	4.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan	
TORQUE	
FILL m	

MUD RECORD

WATER BASED		OIL BASED	X
TIME	200	400	600
DENSITY kg/m3	900	900	900
FUNNEL VIS s/l	58	57	56
W.L. cm/ FILCK			
PH			
PVT	48.80	47.70	47.00

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	20	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1000.00	1090.00	D	25	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0	65	152.0	65

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
4.00	900	860	1690
HOURS	INTAKE	OVERFLOW	UNDERFLOW
4.00	900	860	1710

BOILER

HRS. RUN	PH	STACK deg
8.00	11.5	350

MACP	8411
MAX HOOKLOAD	52

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE FUNCTION H.C.R. / O-C 3 secs.
15	245	2.50	2	DRILL CEMENT FR. 1000-1027m. DRILL 6m NEW HOLE TO 1033m
245	345	1.00	15	LEAK OFF TEST
345	800	4.25	2	DRILL 222mm HOLE FROM 1033m TO 1090m
800				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	BOP DRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Slick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 12

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 240 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	6P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	6P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRED	CUT OFF DRILG. LINE	DEV. SURVEY	WIRELINE LOGS	FISH CIRC. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25								1.00												8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		21.50					0.75			0.75					1.00												24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
32	DRILLPIPE	STANDS	902.95 m
1	DRILLPIPE	SINGLES	9.21 m
KELLY DOWN			11.48 m
TOTAL			1157.00 m
D.C.			31 1000 dan
WT. OF STRING			58 1000 dan

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	1 C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL SINTER	130.00
TOTAL HOURS	11.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan | 2000 dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME	900	1100	1600
DENSITY kg/m3	850	900	890
FUNNEL VIS s/l	60	65	59
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	25	SX
CARBOMUL	1	BBL
CARBOTEC	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1075.40	0.50	238.6
1113.00	0.80	252.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1090.00	1157.00	D	36	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9400	152.0	65	152.0	65

REDUCED PUMP SPEED

1 @ 610 @ 29

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	900	820	1660
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	900	820	1650

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	340

MACP 8411

MAX HOOKLOAD 59

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	2	DRILL 222mm HOLE FR-1090m to 1093 M
845	900	0.25	7	RIG SERVICE
900	915	0.25	10	DEV. SURVEY
915	1415	5.00	2	DRILL 222m HOLE FR-1093
1415	1430	0.25	2	SLIDING FR/1131 TO 1133
1430	1600	1.50	2	DRILL 222 mm HOLE FR/1133m TO 1157m
1600				

Notes: #1 RSPP 610 KPA @ 29 STKS

#2 790 KPA @ 33 STKS

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	BR
(2) Detailed Inspection-Weekly (Using Check List)	AI	BR
(3) H2S Signs Posted(If Required)	AI	BR
(4) Well License & Stick Diagram Posted	AI	BR
(5) Flare Lines Staked	AI	BR
(6) BOP Drills Preformed	AI	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002	MONTH 1	DAY 12	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 240	BOILER		
WEATHER	TEMPERATURE		
	CONDITIONS		
	WIND DIRECTION		
	ROAD CONDITION		

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)			
NO. 2	TYPE DFS	TYPE	
CHANGE SCREENS		YES	NO
TOP 120		TOP 120	
MIDDLE 120		MIDDLE 50	
BOTTOM 50		BOTTOM 50	

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25								1.00												8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		21.50					0.75			0.75					1.00												24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
35	DRILLPIPE	STANDS	988.24 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			8.40 m
TOTAL			1230.00 m
WT. OF D.C.			31 1000 daN
WT. OF STRING			31 1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1 C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	203.00
TOTAL HOURS	26.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			2200
DENSITY kg/m3			890
FUNNEL VIS s/l			58
W.L. cm/ FILCK			
PH			
PVT			44.20

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1140.80	0.10	279.6
1181.10	1.00	295.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1157.00	1230.00	D	32	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8800	152.0	65	152.0	65

REDUCED PUMP SPEED: 2300 @ 1205 @ 65

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890		

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890		

BOILER

HRS. RUN	PH	STACK deg
8.00		

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE FUNCTION UPPER PIPE RAMS C/O 7 secs.
1615	2330	7.25	2	DRILL 222mm HOLE FR/1157m TO
2330	2400	0.50	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK MANIFOLD ALIGNMENT/BRAKE LINKAGE

HELD BOP DRILL WITH CREW - WELL SECURE 88 secs.

EXTRA EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie				
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING				
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76				
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)				
AL IRONSIDE	BOB ROGERS				

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

	Opr.	R.M.

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002	MONTH 1	DAY 12	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG	BOILER		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	YES	NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY																											
EVE																											
TOTAL																											

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
F D.C.			1000 dan
WT. OF STRING			1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/C.R.	ROTARY R.P.M.	WT. ON BIT
			6	

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE

TIME DETAIL

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	SAFETY TOPIC: PRESSURE TESTING

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	BR
(2) Detailed Inspection-Weekly (Using Check List)	AI	BR
(3) H2S Signs Posted(If Required)	AI	BR
(4) Well License & Stick Diagram Posted	AI	BR
(5) Flare Lines Staked	AI	BR
(6) BOP Drills Performed	AI	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 11

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50
TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25							4.75	3.00												8.00
DAY						7.75	0.25																				8.00
EVE		4.75				2.25			1.00																		8.00
TOTAL		4.75				10.00	0.50		1.00					4.75	3.00												24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DC/WH		m
	TOTAL		m
	F D.C.		1000 daN
	WT. OF STRING		1000 daN

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.	

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	500	4.75	14	NIPPLE UP B.O.P.
500	800	3.00	15	PRESSURE TEST BOP
800				

Notes: PRESSURE TEST STACK NO LEAKS

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	SAFETY TOPIC: RUNNING COLLARS

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
AI	BR
AI	BR
AI	BR
AI	BR
AI	BR
AI	BR
AI	BR

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

BR	
BR	
BR	
BR	
BR	

YEAR 2002 | MONTH 1 | DAY 11
RIG NO.: 4
FUEL @ 08:00 HRS.
RIG | BOILER
WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES / NO

TOP 120	TOP 120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25							4.75	3.00												8.00
DAY						7.75	0.25																				8.00
EVE		4.75				2.25			1.00																		8.00
TOTAL		4.75				10.00	0.50		1.00					4.75	3.00												24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL		232.56	m
WT. OF D.C.		31	1000 dan
WT. OF STRING		31	1000 dan

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	1 C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12 12 11
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	G / GE/mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

	@	0	@

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	340

MACP: 8411
MAX HOOKLOAD: 45

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	845	0.50	6	RIG UP FLOOR TO RIH
845	1600	7.25	6	PICK UP DIRECTIONAL TOOLS,MAKE UP SAME RIH W/DC FROM DERRICK
				PICK UP JARS ,STRAP 9DC ON CATWALK,PU/SAME,RIH
				RIH 3 STD' LAYDOWN 6 SINGLES

Notes: FUNCTION BLIND RAMS CLOSE 4 SEC
TALLY 837.51
STRAP 837.43
DIFF. .08

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	SAFETY GLASSES

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	BR
(2) Detailed Inspection-Weekly (Using Check List)	Al	BR
(3) H2S Signs Posted(If Required)	Al	BR
(4) Well License & Stick Diagram Posted	Al	BR
(5) Flare Lines Staked	Al	BR
(6) BOP Drills Preformed	Al	BR
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	BR
(1) Rig Site Health and Safety Meeting (one/crew/month)		BR
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		BR
(3) Mast Inspection Before Raising or Lowering		BR
(4) Crown Saver Checked		BR
(5) Motor Kills Checked		BR

YEAR 2002 | MONTH 1 | DAY 11

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN							0.25							4.75	3.00												8.00
DAY						7.75	0.25																				8.00
EVE		4.75				2.25			1.00																		8.00
TOTAL		4.75				10.00	0.50		1.00					4.75	3.00												24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.25 m
2	222mm STA	222	0.24 m
3	MOTOR	171	7.86 m
4	FLOAT SUB	170	0.76 m
5	3PT REAME	222	1.89 m
6	X.O.	164	0.88 m
7	NMDC	165	9.32 m
8	TRANS SUB	154	1.36 m
9	X.O.	166	0.90 m
10	NMDC	168	9.08 m
11	STAB	171	1.41 m
12	6 D.C	170	55.30 m
13	JAR	169	4.74 m
14	15 D.C	170	138.57 m
15	X.O.	168	0.80 m
			m
			m
			m
			m
27	DRILLPIPE	STANDS	762.56 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	4.08	m
	TOTAL	1000.00	m
	F D.C.	31	1000 dan
	WT. OF STRING	31	1000 dan

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1 C
SIZE (mm)	222.0
IADC CODE	5 4 7
MFG.	SMITH
Type	F35B
SERIAL NO.	MJ4148
JETS (mm)	12. 12. 11.
DEPTH IN (m)	1027.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	P.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME			2200
DENSITY kg/m3			890
FUNNEL VIS s/l			60
W.L. cm/ FILCK			
PH			
PVT			49.50

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
949.00	1000.00	D	25	5

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7500	152.0	110	152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 8411

MAX HOOKLOAD 49

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1700	1.00	9	CUT OFF DRLL LINE
1700	1900	2.00	6	R I H TOO 949 M
1900	1915	0.25	6	LAYED DOWN SIX SGLS
1915	2400	4.75	2	DRILL PLUG/CEMENT FROM 949m TO 1000m
2400				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	RUNNING CASING

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Slick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 120 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	RIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FIX CSG EL					
MORN					2.75							4.00										1.25					8.00
DAY					0.50							4.25		3.00							0.25						8.00
EVE													6.00	2.00													8.00
TOTAL					3.25							8.25	6.00	5.00							0.25	1.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
F D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (n:m)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.	

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
2600	152.0	100	152.0	100

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 4185

MAX HOOKLOAD 47

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	12	RUN CASING
130	245	1.25	22	FIX CASING ELEVATOR'S (LATCH BROKEN)
245	515	2.50	12	RUN CASING
515	800	2.75	5	RIG TO & CIRCULATE CASING
800				

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	BOB ROGERS	SAFETY TOPIC	NIPPLING DOWN

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRRIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FIX CSG ßL					
MORN					2.75							4.00										1.25					8.00
DAY					0.50							4.25		3.00							0.25						8.00
EVE													6.00	2.00													8.00
TOTAL					3.25							8.25	6.00	5.00							0.25	1.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
OF D.C.			1000 dan
WT. OF STRING			1000 dan

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.	

DRAG dan

TORQUE

FILL m

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	830	0.50	5	COND MUD & CIRC
830	845	0.25	21	SAFETY MTG. W/CEMENTERS
845	1300	4.25	12	RIG TO & CEMENT INTERMEDIATE
1300	1600	3.00	14	TAKE OFF KILL LINES/HCR/TO LIFT STACK FOR CASING SLIPS

Notes: PUMP 5m3 DIESEL & 3m3 WATER PRIOR TO CEMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION.: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		BOB ROGERS	SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Slick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 10

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 214 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	120	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	FIX CSG BL					
MORN					2.75							4.00										1.25					8.00
DAY					0.50							4.25		3.00							0.25						8.00
EVE													6.00	2.00													8.00
TOTAL					3.25							8.25	6.00	5.00							0.25	1.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2200	6.00	13	W.O.C.
2200	2400	2.00	14	NIPPLE DOWN BOP/CUT CASING /SET SLIPS/CHG. X-O
2400				

Notes: LANDING JOINT 6.45M

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	FLOW CHECKS

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Performed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 248 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

BC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RSMP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DIREC.TOO					
MORN		1.25			1.00	4.00	0.25	1.25		0.25																	8.00
DAY						1.00	0.25				4.75											2.00					8.00
EVE							0.25				3.75	3.75									0.25						8.00
TOTAL		1.25			1.00	5.00	0.75	1.25		0.25	8.50	3.75									0.25	2.00					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.mm	
1	BIT/ MILLS		2.00 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	2.00 m
7	TRANS SUB	227	8.00 m
8	NMDC	230	9.44 m
9	D C.	228	9.02 m
10	D C	228	8.56 m
11	D C	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X O		0.80 m
			m
			m
			m
			m
29	DRILLPIPE	STANDS	818.77 m
2	DRILLPIPE	SINGLES	18.74 m
KELLY DOWN		12.25	m
TOTAL		1027.50	m
WT. OF D.C.		26	1000 daN
WT. OF STRING		46	1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169880
JETS (mm)	28 28 28
DEPTH IN (m)	770.00
DEPTH OUT (m)	1027.00
TOTAL METER	257.00
TOTAL HOURS	27.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | | OIL BASED | X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
1009.50	0.70	239.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
1014.00	1027.50	D	16	30

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8700	152.0	100	152.0	100

REDUCED PUMP SPEED

2800 @ 100 @ 1009

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	870	1810
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	865	1820

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 4185

MAX HOOKLOAD 50

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	45	0.75	6	RIH (NO FILL ON BOTTOM)
45	200	1.25	8	REPAIR RIG (WORK ON PUMPS)
200	215	0.25	7	RIG SERVICE FUNCTION PIPE RAMS-4 SEC. TO CLOSE
215	330	1.25	2	DRILL 311mm HOLE F/1014-T/1027.50
330	430	1.00	5	CIRCULATE UP SAMPLE & HOLE CLEAN
430	445	0.25	10	DEV. SURVEY
445	800	3.25	6	POOH TO RUN CASING

Notes: SHALE GETTING INTO PUMP VALVES CAUSING COCKED VALVES

FLOW CHECKS @ 1016,968,514,175 & 0

CALC.-7.01m3 MEAS.-7.39m3 DIFF.-.38m3

STRAP-837.43 TALLY-837.51 DIFF.-.08

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: RUNNING CASING

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Slick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Performed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 9

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 248 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	DIREC.TOO					
MORN		1.25			1.00	4.00	0.25	1.25		0.25																	8.00
DAY						1.00	0.25				4.75											2.00					8.00
EVE							0.25				3.75	3.75									0.25						8.00
TOTAL		1.25			1.00	5.00	0.75	1.25		0.25	8.50	3.75									0.25	2.00					24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
	KELLY DOWN		
	TOTAL		
	D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.									
SIZE (mm)									
IADC CODE									
MFG.									
Type									
SERIAL NO.									
JETS (mm)									
DEPTH IN (m)									
DEPTH OUT (m)									
TOTAL METER									
TOTAL HOURS									

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ 0 | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP: 4185

MAX HOOKLOAD: 5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2000	3.75	11	LOG HOLE WITH BAKER
2000	2130	1.50	12	RIG IN TONGHAND & LAYDOWN MACHINE
2130	2145	0.25	21	SAFETY MTG.
2145	2400	2.25	12	RUN CASING (CAT-WALK BROKE LOOSE & SLID AHEAD 1 ft.)
2400				TIE OFF TO LOADER OVER BANK HOLDING BACK LAYDOWN TRUCK

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: BOP DRILL

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Preformed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 8

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 188 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: X YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.25					0.25	1.25													0.25						8.00
DAY		7.50					0.25			0.25																	8.00
EVE		2.75			1.00	4.00	0.25																				8.00
TOTAL		16.50			1.00	4.00	0.75	1.25		0.25											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT	311	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.80 m
			m
			m
			m
			m
25	DRILLPIPE	STANDS	707.01 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		13.21	m
TOTAL		897.68	m
WT. OF D.C.		26	1000 daN
WT. OF STRING		45	1000 daN

DRILLER'S SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169880
JETS (mm)	20 20 20
DEPTH IN (m)	770.00
DEPTH OUT (m)	
TOTAL METER	127.00
TOTAL HOURS	15.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN 3-6 UP 3-7

TORQUE 140

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	200	400	600
DENSITY kg/m3	890	890	890
FUNNEL VIS s/l	58	57	54
W.L. cm/ FILCK			
PH			
PVT	40.00	38.40	39.40

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBOTEC	1	BBL
DFE 418	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
850.00	897.00	D	30	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8100	152.0	100	152.0	100

REDUCED PUMP SPEED: 2800 @ 100 @ 887

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	865	1740
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	870	1740

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP 4185

MAX HOOKLOAD 51

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	100	1.00	8	REPAIR RIG(WORK ON PUMPS)
100	115	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 4 SEC.
115	130	0.25	21	SAFETY MTG. HELD BOP DRILL W/CREW-WELL SECURED IN 86 SEC.
130	400	2.50	2	DRILL 311mm HOLE F/850-T/870
400	415	0.25	8	REPAIR RIG (BLOWER FAN ON DRAWORKS LOOSENED,RETIGHTEN
				& REINSTALL BLOWER VENT)
415	800	3.75	2	DRILL 311mm HOLE F/870-T/897
800				

Notes: DISCHARGE SCREEN ON PUMPS 1 & 2 FULL OF CEMENT & SHALE

CLEANED & REINSTALLED

BLOWER FAN ON DRAWORKS BLOWER LOOSENED & SLIDE AHEAD,MOVED BACK & RETI

DENNIS BLANCHO LEFT LOCATION @ 4:30 A.M. WITHOUT TALKING TO DRILLER. 0

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	FALL ARREST EQUIP.

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Slick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Performed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 8

RIG NO.: 4

FUEL @ 06:00 HRS.

RIG 188 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | X | YES | | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.25					0.25	1.25													0.25						8.00
DAY		7.50					0.25			0.25																	8.00
EVE		2.75			1.00	4.00	0.25																				8.00
TOTAL		16.50			1.00	4.00	0.75	1.25		0.25											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D./mm		
1	BIT/ MILLS		2.00	m
2	STAB	311	0.41	m
3	MOTOR	245	9.20	m
4	FLOAT SUB	230	0.66	m
5	STAB	228	1.74	m
2	NMDC	230	2.00	m
7	TRANS SUB	227	8.00	m
8	NMDC	230	9.44	m
9	D C.	228	9.02	m
10	D C	228	8.56	m
11	D C.	228	8.97	m
12	BELL SUB		0.87	m
13	JAR		4.83	m
14	12 171mm D		111.24	m
15	X O.		0.80	m
				m
				m
				m
				m
28	DRILLPIPE	STANDS	790.23	m
	DRILLPIPE	SINGLES		m
KELLY DOWN			7.03	m
TOTAL			975.00	m
WT. OF D.C.		26		1000 daN
WT. OF STRING		43		1000 daN

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169680
JETS (mm)	20 20 20
DEPTH IN (m)	770.00
DEPTH OUT (m)	
TOTAL METER	205.00
TOTAL HOURS	23.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	P.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	900	1200	1500
DENSITY kg/m3	890	890	890
FUNNEL VIS s/l	58	57	57
W.L. cm/ FILCK			
PH			
PVT	49.00	47.00	45.00

MUD MATERIALS USED

TYPE	QTY	UNITS
CARBOTEC	1	BBL
DFE 418	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
878.30	0.50	244.6
926.50	0.30	254

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
897.00	975.00	D	30	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9600	152.0	100	152.0	100

REDUCED PUMP SPEED

2560 @ 896 @ 100

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	830	1740
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	830	1720

BOILER

HRS. RUN	PH	STACK deg
8.00	12.0	340

MACP 4185

MAX HOOKLOAD 48

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1545	7.50	2	DRILL 311mm HOLE FROM 897m TO 975m
1545	1600	0.25	10	ACCUMULATED SURVEY TIME
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

GREASED CROWN

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						
AL IRONSIDE	TOM CARRIERE						

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Chndklst(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 8

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 188 | BOILER

WEATHER: TEMPERATURE 2 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

SAFETY TOPIC: TRIPPING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: X | YES | NO

TOP	TOP
120	120
MIDDLE 120	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.25					0.25	1.25													0.25						8.00
DAY		7.50					0.25			0.25																	8.00
EVE		2.75			1.00	4.00	0.25																				8.00
TOTAL		16.50			1.00	4.00	0.75	1.25		0.25											0.25						24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	2.00 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	2.00 m
7	TRANS SUB	227	8.00 m
8	NMDC	230	9.44 m
9	D C	228	9.02 m
10	D C.	228	8.56 m
11	D C	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X O		0.80 m
			m
			m
			m
			m
29	DRILLPIPE	STANDS	818.77 m
1	DRILLPIPE	SINGLES	9.51 m
KELLY DOWN			8.00 m
TOTAL			1014.02 m
WT. OF D.C.		26	1000 daN
WT. OF STRING		46	1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169880
JETS (mm)	20 20 20
DEPTH IN (m)	770.00
DEPTH OUT (m)	
TOTAL METER	205.00
TOTAL HOURS	26.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN: 2-4

TORQUE

FILL m

MUD RECORD

	WATER BASED	OIL BASED X
TIME	2000	2300
DENSITY kg/m3	870	865
FUNNEL VIS s/l	55	57
W.L. cm/ FILCK		
PH		
pvt	40.80	46.40

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
975.00	1014.00	D	30	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8100	152.0	100	152.0	100

REDUCED PUMP SPEED

2800	@	100	@	1013

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	880	830	1860
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	880	830	1850

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP	4185
MAX HOOKLOAD	50

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	1900	2.75	2	DRILL 311mm HOLE FROM 975m TO 1014m
1900	2000	1.00	5	CIRCULATE BTTMS. UP
2000	2245	2.75	6	WIPER TRIP TO DCs (STRAP OUT)
2245	2400	1.25	6	RIH

Notes: flow checks @ 1005,958,582 & 175

calc.-3.46m3 meas.-3.58m3 diff.-.10m3

strap-828.74 tally-828.28 diff.-.46

FLOW CHECKS @ 175,601

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Performed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 88 | BOILER

WEATHER: TEMPERATURE -7 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

SAFETY TOPIC: FLOW CHECKS

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL J'T. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | TYPE | SIZE

TOP 110 | TOP 120

MIDDLE 110 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRRIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		2.25			0.75	4.50	0.25	0.25																			8.00
DAY		4.25	0.50			2.75	0.25			0.25																	8.00
EVE		5.25					0.25	2.25		0.25																	8.00
TOTAL		11.75	0.50		0.75	7.25	0.75	2.50		0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
20	DRILLPIPE	STANDS	565.20 m
2	DRILLPIPE	SINGLES	18.86 m
KELLY DOWN			9.07 m
TOTAL			770.00 m
WT. OF B.H.A.			26 1000 daN
WT. OF STRING			43 1000 daN
DRILLER'S SIGNATURE			DENNIS TESSIER

BIT RECORD

BIT NO.	1	2
SIZE (mm)	311.0	311.0
IADC CODE		
MFG.	VAREL	VAREL
Type	ETD 28MS	ETD 34MS
SERIAL NO.	176 589	169880
JETS (mm)	20 20 20	
DEPTH IN (m)	511.00	770.00
DEPTH OUT (m)	770.00	
TOTAL METER	259.00	
TOTAL HOURS	26.75	
INNER		
OUTER		
DULL		
LOCATION		
BEARINGS		
GAUGE(mm)		
OTHER		
REASON		
R.O.P.		
DRAG daN		
TORQUE		
FILL m		

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME	200	315
DENSITY kg/m3	890	890
FUNNEL VIS s/l	60	61
W.L. cm/ FILCK		
PH		

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
746.91	0.40	217.0

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
758.20	770.00	D	20	16

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7400	152.0	100	152.0	100

REDUCED PUMP SPEED

2500 @ 50 @ 754

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	825	1790
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	815	1785

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 4185

MAX HOOKLOAD 44

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE function pipe rams-4 sec. to close
15	115	1.00	2	DRILL F/758-T/765
115	130	0.25	8	REPAIR RIG (GENERATORS WENT DOWN)
130	245	1.25	2	DRILL F/765-T/770
245	330	0.75	5	CIRCULATE BOTTOMS UP
330	800	4.50	6	POOH (BIT TRIP)
800		0.50		

Notes: FLOW CHECKS @760,722,515 & 0

CALC.-8.56m3 MEAS.-7.00m3 DIFF.-.44m3

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	TOURQING COLLARS

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	TC
(2) Detailed Inspection-Weekly (Using Check List)	A	TC
(3) H2S Signs Posted(If Required)	A	TC
(4) Well License & Slick Diagram Posted	A	TC
(5) Flare Lines Staked	A	TC
(6) BOP Drills Preformed	A	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 88 | BOILER

WEATHER: TEMPERATURE -7 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
110	120
MIDDLE 110	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		2.25			0.75	4.50	0.25	0.25																			8.00
DAY		4.25	0.50			2.75	0.25			0.25																	8.00
EVE		5.25					0.25	2.25		0.25																	8.00
TOTAL		11.75	0.50		0.75	7.25	0.75	2.50		0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.80 m
			m
			m
			m
			m
22	DRILLPIPE	STANDS	622.37 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			7.17 m
TOTAL			807.00 m
WT. OF D.C.			8 1000 daN
WT. OF STRING			43 1000 daN

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169880
JETS (mm)	20 20 20
DEPTH IN (m)	770.00
DEPTH OUT (m)	
TOTAL METER	37.00
TOTAL HOURS	4.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG daN	2-3 UP 1-2
TORQUE	142
FILL m	1.00

MUD RECORD

WATER BASED | | OIL BASED | X

TIME		1200	1500
DENSITY kg/m3		900	900
FUNNEL VIS s/l		63	64
W.L cm/ F.CK			
PH			
PVT		40.00	38.00

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	2	SX
LIME	2	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
784.40	0.30	206.5

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
770.00	807.00	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9300	152.0	100	152.0	100

REDUCED PUMP SPEED

2600 @ 802 @ 100

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	830	1740
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	840	1740

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	350

MACP 4185

MAX HOOKLOAD 45

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1100	2.75	6	RUN IN HOLE
1100	1130	0.50	3	WASH 3 SINGLES TO BOTTOM
1130	1545	4.25	2	DRILL 311mm HOLE FROM 770m TO 807m
1545	1600	0.25	10	ACCUMULATED SURVEY TIME
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	LOCK OUT PROCEDURE

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	TC
(2) Detailed Inspection-Weekly (Using Check List)	AI	TC
(3) H2S Signs Posted(If Required)	AI	TC
(4) Well License & Stick Diagram Posted	AI	TC
(5) Flare Lines Staked	AI	TC
(6) BOP Drills Preformed	AI	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C A O D C Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 7

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 88 | BOILER

WEATHER: TEMPERATURE -7 | CONDITIONS CLEAR | WIND DIRECTION CALM | ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC. DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 110 | MIDDLE 110 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		2.25			0.75	4.50	0.25	0.25																			8.00
DAY		4.25	0.50			2.75	0.25			0.25																	8.00
EVE		5.25					0.25	2.25		0.25																	8.00
TOTAL		11.75	0.50		0.75	7.25	0.75	2.50		0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.80 m
			m
			m
			m
			m
23	DRILLPIPE	STANDS	650.30 m
1	DRILLPIPE	SINGLES	9.22 m
KELLY DOWN			13.21 m
TOTAL			850.19 m
WT. OF D.C.		26	1000 daN
WT. OF STRING		43	1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 34MS
SERIAL NO.	169880
JETS (mm)	20 20 20
DEPTH IN (m)	770.00
DEPTH OUT (m)	
TOTAL METER	80.00
TOTAL HOURS	9.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN: 2-4 UP & D

TORQUE: 120

FILL m:

MUD RECORD

WATER BASED | OIL BASED X

TIME	1800	2000	2330
DENSITY kg/m3	890	890	890
FUNNEL VIS s/l	54	58	57
W.L. cm/ FILCK			
PH			
PVT	42.60	41.80	40.40

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
832.00	0.40	247.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
807.00	850.00	D	30	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7500	152.0	100	152.0	100

REDUCED PUMP SPEED: 2600 @ 100 @ 849

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	865	1820
HOURS	INTAKE	OVERFLOW	UNDERFLOW
800.00	890	870	1810

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	355

MACP: 4185

MAX HOOKLOAD: 46

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2130	5.25	2	DRILL 311mm HOLE FROM 807m TO 850
2130	2145	0.25	10	DEV. SURVEY @ 832m
2145	2400	2.25	8	REPAIR RIG (TEAR APART PUMPS 5X)

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
AL IRONSIDE		TOM CARRIERE	SAFETY TOPIC: HOUSEKEEPING

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
A	TC
A	TC
A	TC
A	TC
A	TC
A	TC
A	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TC	
TC	
TC	
TC	
TC	

YEAR 2002 | MONTH 1 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: X | YES | NO

TOP	110	TOP	120
MIDDLE	110	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES | Mom | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
15	DRILLPIPE	STANDS	424.53 m
2	DRILLPIPE	SINGLES	18.87 m
KELLY DOWN			13.21 m
TOTAL			633.48 m
WT. OF D.C.			26 1000 daN
WT. OF STRING			42 1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 28MS
SERIAL NO.	176 589
JETS (mm)	20 20 20
DEPTH IN (m)	511.00
DEPTH OUT (m)	
TOTAL METER	122.00
TOTAL HOURS	17.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED: | OIL BASED: X

TIME	200	400	600
DENSITY kg/m3	880	880	870
FUNNEL VIS s/l	60	62	63
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
CALCIUM CHLORID	24	SX
LIME	33	SX
CARBOTEC	1	BBL
DFE 418	1	BBL

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
578.07	0.50	260.3
606.29	0.40	263.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
575.00	633.00	D	20	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7300	152.0	100	152.0	100

REDUCED PUMP SPEED

4000 @ 45 @ 623

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	880	860	1710
HOURS	INTAKE	OVERFLOW	UNDERFLOW
600.00	870	760	1740

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	350

MACP 4185

MAX HOOKLOAD 43

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	730	7.50	2	DRILL 311mm HOLE F/575-T/
730	745	0.25	7	RIG SERVICE FUNCTION ANNULAR & HCR-11 SEC. & 3 SEC.
745	800	0.25	10	ACCUM. SURVEYS

Notes: ADDED 32m3 INVERT TO MUDTANK

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	STEAM

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Slick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Preformed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | X | YES | | NO

TOP	MIDDLE	BOTTOM
110	110	50
120	50	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
18	DRILLPIPE	STANDS	508.85 m
1	DRILLPIPE	SINGLES	9.65 m
KELLY DOWN			4.63 m
TOTAL			700.00 m
# OF D.C.		26	1000 daN
WT. OF STRING		42	1000 daN

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 28MS
SERIAL NO.	176 589
JETS (mm)	20 20 20
DEPTH IN (m)	511.00
DEPTH OUT (m)	
TOTAL METER	189.00
TOTAL HOURS	24.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(ins	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | | OIL BASED | X

TIME	900	1200	1500
DENSITY kg/m3	880	890	890
FUNNEL VIS s/l	59	63	60
W.L. cm/ FILCK			
PH			
PVT			

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	12	M3
CARBOTEC	1	BBL
DFE 418	1	BBL
CALCIUM CHLORID	23	SX
LIME	44	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
652.50	0.40	236.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
633.00	700.00	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9200	152.0	100	152.0	100

REDUCED PUMP SPEED: 2360 @ 650 @ 50

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	890	870	1610
HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00	890	870	1680

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP 4185

MAX HOOKLOAD 44

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1545	7.50	2	DRILL 311mm HOLE FROM 633m TO 700m
1545	1600	0.25	10	ACC. SURVEY TIME
1600				

Notes: CHECK BRAKE LINKAGE/MANIFOLD ALIGNMENT

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURC S LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	SPILL CONTAINMENT

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
A	TC
A	TC
A	TC
A	TC
A	TC
A	TC

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

TC	
TC	
TC	
TC	
TC	

YEAR 2002 | MONTH 1 | DAY 6

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.4	81.10	S.T.&C	K55	40	512.20	6.37	511.50

DC, DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | X | YES | | NO

TOP	TOP
110	120
MIDDLE 110	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	PICKUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.50					0.25			0.25																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.50					0.75			0.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
20	DRILLPIPE	STANDS	565.20 m
1	DRILLPIPE	SINGLES	9.63 m
KELLY DOWN			6.59 m
TOTAL			758.29 m
WT. OF D.C.		28	1000 daN
WT. OF STRING		43	1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 28MS
SERIAL NO.	176 589
JETS (mm)	20 20 20
DEPTH IN (m)	511.00
DEPTH OUT (m)	
TOTAL METER	247.00
TOTAL HOURS	24.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | | OIL BASED | X

TIME	1800	2200	
DENSITY kg/m3	890	890	
FUNNEL VIS s/l	60	62	
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
699.90	0.20	230.8

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
700.00	758.20	D	25	17

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7500	152.0	100	152.0	100

REDUCED PUMP SPEED

2500 @ 50 @ 754

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
2200.00	890	870	1790
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	360

MACP 4185

MAX HOOKLOAD 45

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2345	7.50	2	DRILL 311mm HOLE FROM 700m TO 758
2345	2400	0.25	10	ACCUM. SURVEY

Notes: CHECK OIL LEVEL IN ACCUM.

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	bop drill

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Slack Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Performed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 5

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.0	81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | X | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WORK ON I	RIG IN DRIL		DRILL OUT	clean tanks	
MORN								0.50													0.50	2.50	0.50		4.00		8.00
DAY		1.00			1.75		0.25								0.75											4.25	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		8.50			1.75		0.50	0.50		0.25					0.75						0.50	2.50	0.50		4.00	4.25	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D C.	171	9.02 m
10	D.C.	171	8.56 m
11	D.C.	171	8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D	171	111.24 m
15	X O		0.21 m
			m
			m
			m
			m
11	DRILLPIPE	STANDS	311.27 m
1	DRILLPIPE	SINGLES	9.50 m
KELLY DOWN			13.30 m
TOTAL			510.94 m
WT. OF D.C.			26 1000 dan
WT. OF STRING			39 1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 28MS
SERIAL NO.	176 589
JETS (mm)	20 20 20
DEPTH IN (m)	500.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	2.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED X

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
511.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5000	152.0	90	152.0	90

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	360

MACP 4035

MAX HOOKLOAD 40

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	230	2.50	22	SEAL UP FLOWTEE
230	300	0.50	21	SAFETY MTG. (HELD BOP DRILL W/CREW-WELL SECURED IN 91 SEC.)
300	330	0.50	23	RIG IN SHUT IN DRILL PIPE SENSOR
330	400	0.50	8	CHANGE OUT VALVE IN PUMP #1
400	800	4.00	25	DRILL OUT FLOAT & SHOE

Notes: CHECK BRAKE PINS & LINKAGE(SET UP BRAKES)

ACCUM. CHECK

START PRES.-19000kpa

STOP PRES.-10500kpa

DAY SHIFT

| | | |

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	TOM CARRIERE	SAFETY TOPIC	INVERT

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	TC
(2) Detailed Inspection-Weekly (Using Check List)	Al	TC
(3) H2S Signs Posted(If Required)	Al	TC
(4) Well License & Stick Diagram Posted	Al	TC
(5) Flare Lines Staked	Al	TC
(6) BOP Drills Performed	Al	TC
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	TC
(1) Rig Site Health and Safety Meeting (one/crew/month)		TC
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		TC
(3) Mast Inspection Before Raising or Lowering		TC
(4) Crown Saver Checked		TC
(5) Motor Kills Checked		TC

YEAR 2002 | MONTH 1 | DAY 5

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7	320.0	81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24	NATIONAL	8P-80	215
114	62.50	HWDP	70	156	4.5XH	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | X | NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	WORK ON R	RIG IN DRL		DRILL OUT	clean tanks	
MORN								0.50													0.50	2.50	0.50		4.00		8.00
DAY		1.00			1.75		0.25								0.75											4.25	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		8.50			1.75		0.50	0.50		0.25					0.75						0.50	2.50	0.50		4.00	4.25	24.00

BIT RECORD

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.		9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
13	DRILLPIPE	STANDS	367.95 m
2	DRILLPIPE	SINGLES	19.23 m
KELLY DOWN			10.95 m
TOTAL			575.00 m
WT. OF D.C.			26 1000 dan
WT. OF STRING			40 1000 dan

DRILLERS SIGNATURE | DENNIS TESSIER

BIT NO.			
SIZE (mm)	311.0		
IADC CODE			
MFG.	VAREL		
Type	ETD 28MS		
SERIAL NO.	176 589		
JETS (mm)	20	20	20
DEPTH IN (m)	511.00		
DEPTH OUT (m)			
TOTAL METER	64.00		
TOTAL HOURS	9.50		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED		OIL BASED	X
TIME	2200	2300	2400
DENSITY kg/m3	895	900	900
FUNNEL VIS s/l	60	62	61
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
521.60	0.80	246.1
549.62	0.70	252.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
516.00	575.00	D	20	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7700	152.0	90	152.0	90

REDUCED PUMP SPEED

2300 @ 528 @ 45

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP 4185

MAX HOOKLOAD 43

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	2345	7.50	2	DRILL 311mm HOLE FROM 516m TO 575
2345	2400	0.25	10	ACCUM. SURVEYS
2400				

Notes: CHECK OIL LEVEL IN ACCUM.

VISUAL INSPECTION OF ESCAPE LINE & BUGGY

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE		SAFETY TOPIC	steam

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	
(2) Detailed Inspection-Weekly (Using Check List)	Al	
(3) H2S Signs Posted(If Required)	Al	
(4) Well License & Slick Diagram Posted	Al	
(5) Flare Lines Staked	Al	
(6) BOP Drills Preformed	Al	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 1 | DAY 4

RIG NO.: 4

FUEL @ 06:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change out	REPLUME A	TEAR APAR			
MORN														4.50								3.50					8.00
DAY						6.00	0.25																1.75				8.00
EVE							0.25								1.75								1.00	5.00			8.00
TOTAL						6.00	0.50							4.50	1.75							3.50	2.75	5.00			24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
calcium chlorid	60	SX
LIME	12	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	360

MACP

MAX HOOKLOAD 5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	200	2.00	14	ASSEMBLE DEGASSER LINES & CHANGE OUT PIPE RACK
200	430	2.50	14	INSTALL FLOWTEE,FLOW SENSOR & CATCH CAN
430	800	3.50	22	PREP FLOOR,PICK UP MTR,MONELS &JARS ONTO RACKS & CHANGE OUT
800				BROKEN TONG SHIEVE

Notes:

8

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection	A	
(2) Detailed Inspection-Weekly (Using Check List)	A	
(3) H2S Signs Posted(If Required)	A	
(4) Well Licence & Stick Diagram Posted	A	
(5) Flare Lines Staked	A	
(6) BOP Drills Performed	A	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	A	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2002 | MONTH 1 | DAY 4

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

AL IRONSIDE

SAFETY TOPIC: PRESSURE TESTING

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	
CHANGE SCREENS	YES	NO
TOP 120	TOP 120	
MIDDLE 50	MIDDLE 50	
BOTTOM 50	BOTTOM 50	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RAN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change out	REPLUMB A	TEAR APAR			
MORN														4.50								3.50					8.00
DAY						6.00	0.25																1.75				8.00
EVE							0.25								1.75								1.00	5.00			8.00
TOTAL						6.00	0.50							4.50	1.75							3.50	2.75	5.00			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.		9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL	176.87	m
	D.C.		1000 daN
	WT. OF STRING		1000 daN

BIT RECORD

BIT NO.											
SIZE (mm)	311.0										
IADC CODE											
MFG.	VAREL										
Type	ETD 28MS										
SERIAL NO.	176 589										
JETS (mm)	20	20	20								
DEPTH IN (m)	500.00										
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.		

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
INVERT	55	M3
CALCIUM CHLORID	60	SX
CARBOTEC	2	BBL
DFE 416	2	BBL
LIME	12	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	360

MACP 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	900	0.75	6	MAKE UP BHA
900	1045	1.75	23	REPLUMB ACC. UPPER & LOWER PIPES
1045	1600	5.25	6	FINISH MAKING UP BHA/RUN IN HOLE TO PRESSURE TEST
1600				

Notes: CHECK BRAKE LINKAGE / MANIFOLD ALIGNMENT

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

EVENING SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION. : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

	Opr.	R.M.
(1) Daily Walk Around Inspection	Al	
(2) Detailed Inspection-Weekly (Using Check List)	Al	
(3) H2S Signs Posted(If Required)	Al	
(4) Well License & Stick Diagram Posted	Al	
(5) Flare Lines Staked	Al	
(6) BOP Drills Performed	Al	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Al	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 1 | DAY 4

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: PINCH POINTS

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120	TOP 120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	change out	REPLUMB A	TEAR APAR			
MORN														4.50								3.50					8.00
DAY						6.00	0.25																1.75				8.00
EVE							0.25								1.75								1.00	5.00			8.00
TOTAL						6.00	0.50							4.50	1.75							3.50	2.75	5.00			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT/ MILLS	O.D.mm	0.30 m
2	STAB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
2	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.		9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL SUB		0.87 m
13	JAR		4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
10	DRILLPIPE	STANDS	282.76 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			459.63 m
D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	VAREL
Type	ETD 28MS
SERIAL NO.	176 589
JETS (mm)	20 20 20
DEPTH IN (m)	500.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	2.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [X]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	365

MACP 4035

MAX HOOKLOAD 39

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	1800	1.75	15	TEST B.O.P.
1800	1900	1.00	23	REPLUMB ACC. ANNULAR/H.C.R. REVERSED
1900	2400	5.00	24	ATTEMPT TO SEAL FLOW NIPPLE (WELDED TOGETHER CROOKED)
2400				INVERT PUMP PUMPING ACROSS VERY SLOWLY (COLD OIL)

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie				
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING				
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76				
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)				
AL IRONSIDE	STEPHAN KOHLENDORFER				

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.
	SK
	SK

YEAR 2002 | MONTH 1 | DAY 3

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: nipple up

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN														8.00													8.00
DAY														8.00													8.00
EVE																											
TOTAL														16.00													16.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
W D.C.			1000 dan
WT. OF STRING			1000 dan

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		
DRAG dan		
TORQUE		
FILL m		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	360

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00	14	NIPPLE UP BOPS
800				

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	STEPHAN KOHLENDORFER

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.
	SK
	SK

YEAR 2002 | MONTH 1 | DAY 3

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: nipple up

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN														8.00												8.00
DAY														8.00												8.00
EVE																										
TOTAL														16.00												16.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
KELLY DOWN			
TOTAL			
F D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG dan	
TORQUE	
FILL m	

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1		PUMP NO. 2	
	LINER(mm)	SPM	LINER(mm)	SPM
	152.0		152.0	

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	365

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1600	8.00	14	NIPPLE UP B.O.P. LOAD OUT DIVERTER SYSTEM
1600				CLEAN MUDTANKS GET READY FOR INVERT
				nipple down kill line valves & tighten bottom bolts
				nipple down H.C.R. valves & turn same & re-torque (6 hours)

Notes:

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	STEPHAN KOHLENDORFER	SAFETY TOPIC	HYDRAULIC LINES

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted (If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
	SK
	SK

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2002 | MONTH 1 | DAY 3

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	PERMIS	DIRECTIONAL WORK	SAFETY MEETING						
MORN														8.00													8.00
DAY														8.00													8.00
EVE																											
TOTAL														16.00													16.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
	DRILLPIPE	STANDS	
	DRILLPIPE	SINGLES	
	KELLY DOWN		
	TOTAL		
	W D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.	

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.5	350

MACP: 0

MAX HOOKLOAD:

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600			14	NIPPLE UP B.O.P. / PLUMB KILL LINES / FLARE LINES
				PLUMB IN HYDRAULIC LINES / PRESSURE TEST AGAINST BLIND RAMS
	2400			TIGHTEN LEAKING SPOOLS

Notes: PRESSURE UP ACCUMULATOR / NO LEAKS

MORNING SHIFT

LICENCE NO. : 1931	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
AL IRONSIDE	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	SK
(2) Detailed Inspection-Weekly (Using Check List)	AI	SK
(3) H2S Signs Posted(If Required)	AI	SK
(4) Well License & Slick Diagram Posted	AI	
(5) Flare Lines Staked	AI	
(6) BOP Drills Preformed	AI	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2002 | MONTH 1 | DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -22 | CONDITIONS CLEAR | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRED	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	REDIG CEL	CUT CONDI				
MORN							0.25						2.75	5.00													8.00
DAY														0.75								3.75	3.50				8.00
EVE														5.00										3.00			8.00
TOTAL							0.25						2.75	10.75								3.75	3.50	3.00			24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	300	2.75	13	W.O.C. CLEAN UP CONTAMINATED MUD MESS
300	800	5.00	14	NIPPLE DOWN DIVERTER,CUT COND. & CSG & LAY OUT DIVERTER
800				

Notes:

DRILLERS SIGNATURE | HARVEY PATTON

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						
AL IRONSIDE	STEPHAN KOHLENDORFER						

Opr.	R.M.	
Al	SK	(1) Daily Walk Around Inspection
Al	SK	(2) Detailed Inspection-Weekly (Using Check List)
Al	SK	(3) H2S Signs Posted (If Required)
Al		(4) Well License & Stick Diagram Posted
Al		(5) Flare Lines Staked
Al		(6) BOP Drills Performed
Al		(7) Visually Inspect BOP's - Flarelines & Degasser Lines
		(1) Rig Site Health and Safety Meeting (one/crew/month)
		(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
	SK	(3) Mast Inspection Before Raising or Lowering
	SK	(4) Crown Saver Checked
	SK	(5) Motor Kills Checked

YEAR 2002 | MONTH 1 | DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -22; CONDITIONS CLEAR; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: NIPPLE UP

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	W.O.C.	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	REDIG CEL	CUT CONDU				
MORN							0.25						2.75	5.00													8.00
DAY														0.75								3.75	3.50				8.00
EVE														5.00										3.00			8.00
TOTAL							0.25						2.75	10.75								3.75	3.50	3.00			24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
DRAG daN											
TORQUE											
FILL m											

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ READ/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP

MAX HOOKLOAD 5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	14	LOAD OUT DIVERTER
845	1230	3.75	22	REDIG CELLAR 3 FEET DEEPER
1230	1600	3.50	23	CUT CONDUCTER,REMOVE CEMENT,CUT CASING & PREP FOR BOWL

Notes:

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie						
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING						
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						
AL IRONSIDE	STEPHAN KOHLENDORFER						

	Opr.	R.M.
(1) Daily Walk Around Inspection	AI	SK
(2) Detailed Inspection-Weekly (Using Check List)	AI	SK
(3) H2S Signs Posted(If Required)	AI	SK
(4) Well License & Slick Diagram Posted	AI	
(5) Flare Lines Staked	AI	
(6) BOP Drills Preformed	AI	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	AI	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2002 | MONTH 1 | DAY 2

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -22; CONDITIONS CLEAR; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2; TYPE DFS; TYPE

CHANGE SCREENS: YES; NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRRIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING	REDIG CELL	CUT CONDU				
MORN							0.25						2.75	5.00													8.00
DAY														0.75								3.75	3.50				8.00
EVE														5.00										3.00			8.00
TOTAL							0.25						2.75	10.75								3.75	3.50	3.00			24.00

Mom	Day	Eve

BIT RECORD

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

BIT NO.; SIZE (mm); IADC CODE; MFG.; Type; SERIAL NO.; JETS (mm); DEPTH IN (m); DEPTH OUT (m); TOTAL METER; TOTAL HOURS

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN; TORQUE; FILL m

DRILLERS SIGNATURE: HARVEY PATTON

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ ; @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1900	3.00	24	LEVEL BOWL & WELD ON BOWL (PRESSURE TEST T/1200 PSI)
1900	2400	5.00	14	NIPPLE UP B.O.P.

Notes:

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	STEPHAN KOHLENDORFER	SAFETY TOPIC	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
	SK
	SK
	SK

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	SK
	SK
	SK
	SK
	SK

YEAR 2002 | MONTH 1 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER
TEMPERATURE -32
CONDITIONS FOG
WIND DIRECTION
ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 50 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.25																	6.75					8.00
DAY					7.25		0.25															0.50					8.00
EVE												2.25	5.25									0.50					8.00
TOTAL					8.50		0.25					2.25	5.25									7.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. c/m/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	30	0.50	5	CIRC OUT CEMENT WITH RIG PUMPS UNPLUG FLOWLINE
30	115	0.75	5	CIRC OUT CEMENT WITH BJ [UNPLUG FLOWLINE]
115	800	6.75	22	CLEAN UP CEMENT AND MUD RIG TO CIRCULATE CASING

Notes:

DAY SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	STEPHAN KOHLENDORFER	SAFETY TOPIC	CEMENTING

	Opr.	R.M.
(1) Daily Walk Around Inspection		SK
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		SK
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2002 | MONTH 1 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -32 | CONDITIONS FOG | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.25																	6.75					8.00
DAY					7.25		0.25															0.50					8.00
EVE												2.25	5.25									0.50					8.00
TOTAL					8.50		0.25					2.25	5.25									7.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO. | BIT/ MILLS | O.D.mm | m

DRILLPIPE | STANDS | m

DRILLPIPE | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF D.C. | 1000 daN

WT. OF STRING | 1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1000	1300	1600
DENSITY kg/m3	1025	1025	1025
FUNNEL VIS s/l	35	33	32
W.L. cm/ FILCK			
PH	11.0	11.0	11.0

MUD MATERIALS USED

TYPE	QTY	UNITS
SAWDUST	5	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1000	152.0	110	152.0	110

REDUCED PUMP SPEED: @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP

MAX HOOKLOAD 37

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	830	0.50	22	REPLACE HCR FITTING & REINSTALL FLOWLINE DRESSER SLEEVE
830	845	0.25	7	RIG SERVICE
845	1600	7.25	5	CIRCULATE CASING

Notes:

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
AL IRONSIDE	STEPHAN KOHLENDORFER	SAFETY TOPIC	

	Opr.	R.M.
(1) Daily Walk Around Inspection		SK
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		SK
(4) Well License & Slick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2002 | MONTH 1 | DAY 1

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -32; CONDITIONS FOG; WIND DIRECTION; ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER	339.7		81.00	LTNC NEW	K55	40	512.20		511.50

DC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2; TYPE DFS; TYPE

CHANGE SCREENS: YES / NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.25																	6.75					8.00
DAY					7.25		0.25															0.50					8.00
EVE												2.25	5.25									0.50					8.00
TOTAL					8.50		0.25					2.25	5.25									7.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.			INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.
SIZE (mm)											
IADC CODE											
MFG.											
Type											
SERIAL NO.											
JETS (mm)											
DEPTH IN (m)											
DEPTH OUT (m)											
TOTAL METER											
TOTAL HOURS											
DRAG daN											
TORQUE											
FILL m											

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

MORNING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Slick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -32 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: TRIPPING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	6.00																					8.00
DAY							0.25					7.50									0.25						8.00
EVE					5.00							2.25										0.75					8.00
TOTAL					7.00	6.00	0.25					9.75									0.25	0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D. mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9"DC		9.02 m
4	9"DC		8.56 m
5	9"DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
12	DRILLPIPE	STANDS	340.25 m
2	DRILLPIPE	SINGLES	18.85 m
	KELLY DOWN		7.16 m
	TOTAL		511.50 m
	WT. OF D.C.		25 1000 dan
	WT. OF STRING		31 1000 dan

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	503.00
TOTAL METER	203.00
TOTAL HOURS	21.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE (mm)	OTHER	REASON	R.O.P.

DRAG dan: I TO TWO T

TORQUE:

FILL m: 0.50

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	200		
DENSITY kg/m3	1170		
FUNNEL VIS s/l	80		
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	42	
LIGNITE	1	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7740	2.0	110	152.0	110

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	6	TRIPS wiper trip drill pipe from 511m to 145 m
130	330	2.00	5	COND MUD & CIRC work drill string
330	645	3.25	6	P O O H TOO RUN CSG
645	800	1.25	6	CLEAR CATWALK OF BOTTOM HOLE TOOLS
800				

Notes:

DAY SHIFT

LICENCE NO.: 1931 | WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD. | CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122 | UNIQUE I.D.: J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY) | CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

WILBERT CALLIHOO | **STEPHAN KOHLENDORFER**

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Slick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -32 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: RUNNING CASING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | TOP 120

MIDDLE 50 | MIDDLE 50

BOTTOM 50 | BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	6.00																					8.00
DAY							0.25					7.50									0.25						8.00
EVE					5.00							2.25										0.75					8.00
TOTAL					7.00	6.00	0.25					9.75									0.25	0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	W.O.B. D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL V/S s/l			
W.L. cm/ F.L.CK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
			152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	240

MACP

MAX HOOKLOAD 36

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	12	RIG IN POWER TONGS & LAY DOWN MACHINE
845	900	0.25	21	SAFETY MTG.
900	915	0.25	7	RIG SERVICE
915	1600	6.75	12	RUN CASING WELD SHOE 'FLOAT COLLAR

Notes:

EVENING SHIFT

LICENCE NO.: 1931	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR.: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION.: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	Rig
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 31

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -32 | CONDITIONS | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					2.00	6.00																					8.00
DAY							0.25					7.50									0.25						8.00
EVE					5.00							2.25										0.75					8.00
TOTAL					7.00	6.00	0.25					9.75									0.25	0.75					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
Type			
SERIAL NO.			
JETS (mm)			
DEPTH IN (m)			
DEPTH OUT (m)			
TOTAL METER			
TOTAL HOURS			

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED | X | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
DESCO	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
2800	152.0	110	152.0	110

REDUCED PUMP SPEED

@	@

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP	
MAX HOOKLOAD	

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1700	1.00	12	RUN CASING
1700	1745	0.75	22	RIG TO CIRCULATE & BREAK CIRCULATION
1745	2000	2.25	5	CIRCULATE CASING (NO FILL ON BOTTOM)
2000	2115	1.25	12	CEMENT WITH B.J CEMENTERS BROKE DOWN
2115	2400	2.75	5	COND MUD & CIRC OUT CEMENT.[FLOWLINE PLUGED]

Notes:

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION. : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	SK
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well Licenses & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	SK
(6) BOP Drills Preformed	WC	SK
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 30

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER
- TEMPERATURE -25
- CONDITIONS OVERCAST
- WIND DIRECTION
- ROAD CONDITION SLIPPERY

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC. DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
114	62.50	HWDP	70	157	4.5XH	24	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.00	6.50				0.50																	8.00
DAY					0.50	7.25	0.25																				8.00
EVE		3.75			2.25	2.00																					8.00
TOTAL		3.75			3.75	15.75	0.25			0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm	
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.58 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
12	DRILLPIPE	STANDS	340.25 m
1	DRILLPIPE	SINGLES	9.61 m
KELLY DOWN			7.90 m
TOTAL			503.00 m
WT. OF D.C.			25 1000 dan
WT. OF STRING			31 1000 dan

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	503.00
TOTAL METER	203.00
TOTAL HOURS	21.75
DRAG dan	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
503.00	1.00	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
503.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	100	1.00	5	COND MUD & CIRC WORK PIPE
100	130	0.50	10	WIRELINE SURVEY AT 500M
130	245	1.25	6	WIPER TRIP PIPE AT 503M STRAP SAME
245	330	0.75	6	KELLY UP B,C PUMP OUT
330	345	0.25	6	RACK KELLY, POH TWO 451 M
345	800	4.25	6	PU KELLY WORK MUD RING FROM 451 M TO 324

Notes:

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR. : PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION. : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO		STEPHAN KOHLENDORFER	

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	SK
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	SK
(6) BOP Drills Performed	WC	SK
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 30

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -25 | CONDITIONS OVERCAST | WIND DIRECTION | ROAD CONDITION SLIPPERY

SAFETY TOPIC: PULLING TIGHT HOLE

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
114	62.50	HWDP	70	157	4.5XH	24	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24			

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	120	TOP	120
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.00	6.50				0.50																	8.00
DAY					0.50	7.25	0.25																				8.00
EVE		3.75			2.25	2.00																					8.00
TOTAL		3.75			3.75	15.75	0.25			0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
12	DRILLPIPE	STANDS	340.25 m
1	DRILLPIPE	SINGLES	9.61 m
KELLY DOWN			7.90 m
TOTAL			503.00 m
WT. OF D.C.			25 1000 daN
WT. OF STRING			31 1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	15[illegible]741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	503.00
TOTAL METER	203.00
TOTAL HOURS	21.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
503.00				

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7500	152.0	110	152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	240

MACP

MAX HOOKLOAD 52

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	845	0.75	6	PUMP OUT OF HOLE F/324-T/252
845	1000	1.25	6	PULL OUT OF MUD RING WITHOUT PUMP
1000	1200	2.00	6	POOH (STRAP OUT)
1200	1215	0.25	7	RIG SERVICE
1215	1430	2.25	6	RIH W/BIT
1430	1500	0.50	5	BREAK CIRCULATION & CIRCULATE HOLE CLEAN
1500	1600	1.00	6	RIH W/9 SINGLES DP
1600				

Notes: STRAP-503.10 TALLY-503.00 DIFF-.10m

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR. : PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.Mt.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	SK
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	SK
(6) BOP Drills Performed	WC	SK
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		SK
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 30

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -25 | CONDITIONS OVERCAST | WIND DIRECTION | ROAD CONDITION SLIPPERY

SAFETY TOPIC: COLD WEATHER

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
114	24.70	E	76	156	4.5XH	387	NATIONAL	8P-80	215
114	62.50	HWDP	70	157	4.5XH	24	NATIONAL	8P-80	215
171	148.22	DC	73	171	5H90	24			

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REGRP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					1.00	6.50				0.50																	8.00
DAY					0.50	7.25	0.25																				8.00
EVE		3.75			2.25	2.00																					8.00
TOTAL		3.75			3.75	15.75	0.25			0.50																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
12	DRILLPIPE	STANDS	340.25 m
2	DRILLPIPE	SINGLES	18.85 m
KELLY DOWN		7.16	m
TOTAL		511.50	m
WT. OF D.C.		25	1000 daN
WT. OF STRING		31	1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	511.00
TOTAL MTSER	211.00
TOTAL HOURS	25.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1800		
DENSITY kg/m3	1160		
FUNNEL VIS s/l	65		
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
503.00	511.00	D	50	10

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8500	152.0	110	152.0	110

REDUCED PUMP SPEED: @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP: 0

MAX HOOKLOAD:

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1630	0.50	5	WASH 2 SINGLES DOWN
1630	1715	0.75	6	RIH W/7 SINGLES
1715	1800	0.75	5	WASH LAST SINGLE TO BOTTOM & CIRCULATE HOLE CLEAN
1800	2145	3.75	2	DRILL F/503-T/511.50
2145	2245	1.00	5	COND MUD & CIRC
2245	2400	1.25	6	WIPER TRIP

Notes:

MORNING SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOHLENDORFER	SAFETY TOPIC	HOUSEKEEPING

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flaretines & Degasser Lines

Opr.	R.M.
WC	SK
WC	
WC	SK
WC	
WC	
WC	
WC	SK

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	SK
	SK
	SK

YEAR 2001 | MONTH 12 | DAY 29

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 228 | BOILER

WEATHER: TEMPERATURE -20 | CONDITIONS clear | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN			7.50				0.50																				8.00
DAY			7.25		0.25					0.50																	8.00
EVE			7.00		0.25		0.25			0.50																	8.00
TOTAL			21.75		0.50		0.75			1.00																	24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9"DC		9.02 m
4	9"DC		8.56 m
5	9"DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
6	DRILLPIPE	STANDS	169.47 m
2	DRILLPIPE	SINGLES	18.42 m
KELLY DOWN			12.87 m
TOTAL			346.00 m
W D.C.			25 1000 daN
WT. OF STRING			30 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	28 28 28
DEPTH IN (m)	300.00
DEPTH OUT (m)	
TOTAL METER	46.00
TOTAL HOURS	7.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	R.O.P.

DRAG daN | 10K

TORQUE

FILL m

MUD RECORD

WATER BASED [X] | OIL BASED [ ]

TIME	200		600
DENSITY kg/m3	1160		1160
FUNNEL VIS s/l	50		54
W.L. cm/ FILCK			
PH	10.0		
			10.00

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	12	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CIR.	ROTARY R.P.M.	WT. ON BIT
300.00	346.00	R	65	12
			45	12

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
6900	152.0	110	152.0	110

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1890	1160
HOURS	INTAKE	OVERFLOW	UNDERFLOW
80.00	1160	1870	1160

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	30	0.50	7	RIG SERVICE
30	800	7.50	3	REAMING FR/300 TO/ 346
800				

Notes:

DAY SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOHLENDORFER	SAFETY TOPIC	MSDS

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stck Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Preformed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001	MONTH 12	DAY 29	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 228	BOILER		
WEATHER: TEMPERATURE -20			
CONDITIONS clear			
WIND DIRECTION			
ROAD CONDITION			

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-30	215
							NATIONAL	8P-80	215

SHALE SHAKER(S)			RENTALS / SERVICES	Morn	Day	Eve
NO. 2	TYPE DFS	TYPE				
CHANGE SCREENS	YES	NO				
TOP 120	TOP 120					
MIDDLE 50	MIDDLE 50					
BOTTOM 50	BOTTOM 50					

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN			7.50				0.50																				8.00
DAY			7.25		0.25					0.50																	8.00
EVE			7.00		0.25		0.25			0.50																	8.00
TOTAL			21.75		0.50		0.75			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
9	DRILLPIPE	STANDS	254.07 m
2	DRILLPIPE	SINGLES	19.07 m
KELLY DOWN			13.30 m
TOTAL			431.68 m
WT. OF D.C.			25 1000 dan
WT. OF STRING			32 1000 dan

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	431.00
TOTAL METER	131.00
TOTAL HOURS	14.75
DRAG dan	
TORQUE	
FILL m	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm	OTHER	REASON	R.O.P.

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1000	1400
DENSITY kg/m3	1160	1160
FUNNEL VIS s/l	54	58
W.L. cm/ FILCK	8.0	8.0
PH		7.0
TM	41.00	40.50

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	20	SX
LIGNITE	1	SX
SAWDUST	5	SX
DETERGENT	3	PAILS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
333.00	1.25	
399.00	1.75	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
346.00	403.00	R	50	11
403.00	431.00	R	80	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
7400	152.0	110	152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1140	1830
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1150	1850

BOILER

HRS. RUN	PH	STACK deg
8.00	9.5	240

MACP 0

MAX HOOKLOAD 43

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	10	DEV. SURVEY @ 333m- 1.25 DEGREE
815	1345	5.50	3	REAM F/346-T/403
1345	1400	0.25	5	CIRC & WORK PIPE
1400	1415	0.25	10	DEV. SURVEY @ 399m- 1 3/4 DEGREE
1415	1600	1.75	3	REAM F/403-T/431

Notes:

EVENING SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO		STEPHAN KOHLENDORFER	

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Slick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		SK
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 29

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 228 | BOILER

WEATHER: TEMPERATURE -20 | CONDITIONS clear | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	215
							NATIONAL	8P-80	215

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	REGRP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN			7.50				0.50																				8.00
DAY			7.25		0.25					0.50																	8.00
EVE			7.00		0.25		0.25			0.50																	8.00
TOTAL			21.75		0.50		0.75			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9"DC		9.02 m
4	9"DC		8.56 m
5	9"DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
12	DRILLPIPE	STANDS	340.25 m
1	DRILLPIPE	SINGLES	9.61 m
KELLY DOWN			7.90 m
TOTAL			503.00 m
W[illegible] D.C.			25 1000 dan
WT. OF STRING			31 1000 dan

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	503.00
TOTAL METER	203.00
TOTAL HOURS	21.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan 15

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME	1800		1100
DENSITY kg/m3	1160		1150
FUNNEL VIS s/l	60		51
W.L. cm/ FR.CK	8.0		
PH	7.5		7.5
TM	39.70		

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
447.00	1.00	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
431.00	460.00	R	80	9
460.00	502.00	R	80	10

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8090	152.0	110	152.0	110

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00		1160	1190

HOURS	INTAKE	OVERFLOW	UNDERFLOW
6.00	1180	1160	1190

BOILER

HRS. RUN	PH	STACK deg
8.00	12.0	240

MACP 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1800	2.00	3	REAM F/431-T/460
1800	1815	0.25	5	CIRC. & WORK PIPE
1815	1845	0.50	10	DEV. SURVEY @ 447m- 1 DEGREE
1845	1930	0.75	3	REAM F/460-T/469M'.
1930	1945	0.25	7	RIG SERVICE
1945	2400	4.25	3	DRILL 444.5MM F/ 460M TO 503M
2400				

Notes:

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well Licence & Stick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS clear | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZ.d	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	
							NATIONAL	8P-80	

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25			1.00																	8.00
DAY		4.00			0.50	2.25	0.25			0.25												0.75					8.00
EVE		0.50	3.50			2.25																0.25	1.50				8.00
TOTAL		11.25	3.50		0.50	4.50	0.50			1.25												1.00	1.50				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
2	DRILLPIPE	STANDS	56.29 m
2	DRILLPIPE	SINGLES	18.53 m
KELLY DOWN		13.03	m
TOTAL		233.09	m
WT. OF D.C.		25	1000 dan
WT. OF STRING		25	1000 dan

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	3
SIZE (mm)	444.5
IADC CODE	
MFG.	SECURITY
Type	SS335
SERIAL NO.	483056
JETS (mm)	22 22 22
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	233.00
TOTAL HOURS	21.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan 10K

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME	200	700
DENSITY kg/m3	1140	1160
FUNNEL VIS s/l	48	49
W.L. cm/ FILCK		
PH	10.0	9.0

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	6	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
154.00	0.75	
224.00	0.75	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
149.04	233.00	R	120	12

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
4000	152.0	110	152.0	110

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1140	1140	1890
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1140	1140	1870

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	130	1.50	2	DRILL 444.5mm HOLE FR/149.04 TO/158.54
130	215	0.75	10	CIRCULATE/SURVEY
215	230	0.25	7	RIG SERVICE
230	645	4.25	2	DRILL 444.5mm HOLE FR/158.5 TO 224
645	700	0.25	10	CIRCULATE/SURVEY 224m
700	800	1.00	2	DRILL 444.5mm HOLE
800				

Notes: FUEL @6:00 271

DAY SHIFT

WELL NAME AND NO.: Paramount Anadarko Bovie

OPERATOR: PARAMOUNT RESOURCES LTD.

CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION: 60:20: 122

UNIQUE I.D.: J-76

OPERATIONS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

WILBERT CALLIHOO

CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14; CONDITIONS clear; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: steam

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING									
TUBING									
LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	
							NATIONAL	8P-80	

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

	TOP	MIDDLE	BOTTOM
	120	50	50
	120	50	50

RENTALS / SERVICES

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RECUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25			1.00																	8.00
DAY		4.00			0.50	2.25	0.25			0.25												0.75					8.00
EVE		0.50	3.50			2.25																0.25	1.50				8.00
TOTAL		11.25	3.50		0.50	4.50	0.50			1.25												1.00	1.50				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
5	DRILLPIPE	STANDS	141.61 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		13.30	m
TOTAL		300.15	m
P.U. WT. OF STRING		25	1000 daN
WT. OF STRING		27	1000 daN

DRILLERS SIGNATURE | DENNIS TESSIER

BIT RECORD

BIT NO.	3	4
SIZE (mm)	444.5	444.5
IADC CODE		
MFG.	SECURITY	VAREL
Type	SS335	ETD 515
SERIAL NO.	483056	151741
JETS (mm)	22 22 22	20 20 20
DEPTH IN (m)	0.00	300.00
DEPTH OUT (m)	300.00	
TOTAL METER	300.00	
TOTAL HOURS	25.25	

INNER | OUTER | DULL | LOCATION | BEARINGS | GAUGE/mm | OTHER | REASON | R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	800	1130	1815
DENSITY kg/m3	1150	1150	1150
FUNNEL VIS s/l	44	47	47
W.L. cm/ FILCK			
PH	8.0	8.0	8.0
m			34.50

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	22	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
287.00	1.25	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
233.00	300.00	R	120	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
4500	152.0	110	152.0	

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1150	1130	1790
8.00	1150	1135	1840

BOILER

HRS. RUN	PH	STACK deg
12.00	10.0	330

MACP 0

MAX HOOKLOAD 52

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1200	4.00	2	DRILL f/233-t/300
1200	1215	0.25	7	RIG SERVICE
1215	1245	0.50	5	Circulate hole clean
1245	1300	0.25	10	DEV. SURVEY @ 287m- 1.25 degree
1300	1515	2.25	6	TRIPS (POOH to change bit)
1515	1600	0.75	22	change bit

Notes: check brake pins & linkage

visual inspection of escape line & buggy

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	Rig
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 28

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS clear | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.
							NATIONAL	8P-80	
							NATIONAL	8P-80	

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.75					0.25			1.00																	8.00
DAY		4.00			0.50	2.25	0.25			0.25												0.75					8.00
EVE		0.50	3.50			2.25																0.25	1.50				8.00
TOTAL		11.25	3.50		0.50	4.50	0.50			1.25												1.00	1.50				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	12D.C.		111.24 m
9	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
6	DRILLPIPE	STANDS	140.81 m
2	DRILLPIPE	SINGLES	19.20 m
KELLY DOWN			3.75 m
TOTAL			309.00 m
WT. OF D.C.			25 1000 daN
WT. OF STRING			27 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	4
SIZE (mm)	444.5
IADC CODE	
MFG.	VAREL
Type	ETD 515
SERIAL NO.	151741
JETS (mm)	20 20 20
DEPTH IN (m)	300.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	P.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

TIME DETAIL

FROM	TO	ELAPSED TIME	CODE	
1600	1615	0.25	22	change bit
1615	1645	0.50	6	TRIPS
1645	1715	0.50	23	wash down mud ring
1715	1800	0.75	6	TRIPS
1800	1900	1.00	23	wash down mud ring
1900	1930	0.50	6	RIH TO/145
1930	2030	1.00	3	REAMING FR/145 TO/176
2030	2100	0.50	6	RIH FR/176 TO/220
2100	2330	2.50	3	REAMING FR/220 TO/
2330	2400	0.50	2	DRILL open hole 444 mm

Notes:

check brks bope

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	Rig
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		

YEAR 2001	MONTH 12	DAY 27	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG	BOILER		
WEATHER: TEMPERATURE -14			
CONDITIONS fog			
WIND DIRECTION			
ROAD CONDITION			

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS: YES / NO

TOP 120	TOP 120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		5.75			2.00		0.25																				8.00
DAY		7.00				1.00																					8.00
EVE		4.50			1.00	2.00	0.25			0.25																	8.00
TOTAL		17.25			3.00	3.00	0.50			0.25																	24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL			m
WT. OF D.C.			1000 dan
WT. OF STRING			1000 dan

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	20 20 20
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
0.00	26.00	R	45	1

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	350

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	300	2.75	2	DRILL, pick up kelly , try to drill, shakers
				screens pluging off
300	500	2.00	5	COND MUD & CIRC
500	800	3.00	2	DRILL

Notes:

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 27

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS fog | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: | YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		5.75			2.00		0.25																				8.00
DAY		7.00				1.00																					8.00
EVE		4.50			1.00	2.00	0.25			0.25																	8.00
TOTAL		17.25			3.00	3.00	0.50			0.25																	24.00

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		
	BIT/ MILLS	O.D.mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9'DC		9.02 m
4	9'DC		8.56 m
5	9'DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	X.O.		0.21 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
2	DRILLPIPE	SINGLES	18.47 m
	KELLY DOWN	12.53	m
	TOTAL	65.00	m
	WT. OF D.C.	14	1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT NO.	3
SIZE (mm)	444.5
IADC CODE	
MFG.	SECURITY
Type	SS335
SERIAL NO.	483056
JETS (mm)	22 22 22
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	6500.00
TOTAL HOURS	10.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	930	1230
DENSITY kg/m3	1130	1130
FUNNEL VIS s/l	47	42
W.L. cm/ FILCK	11.0	11.0
PH	10.0	10.0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
26.00	6500.00	R	120	15

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
1000	152.0	110	152.0	110

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1130		

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1130		

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1030	2.50	2	DRILL 444.5mm HOLE FR-26M TO 33.8
1030	1130	1.00	6	RACK KELLY LAY DOWN TWO 6 1/4' DC,RUN IN 1 STAND 9' DC FROM DERRICK
1130	1600	4.50	2	DRILL 444.5mm HOLEFROM 33'80M TO 65'77 M

Notes: INSTALL TOTCO RING

EVENING SHIFT

LICENCE NO.:	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO		STEPHAN KOHLENDORFER	

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)	WC	
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		SK

YEAR 2001 | MONTH 12 | DAY 27

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE -14 | CONDITIONS fog | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: pinch points

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

SC. DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: YES | NO

TOP	120
MIDDLE	50
BOTTOM	50

TOP	120
MIDDLE	50
BOTTOM	50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		5.75			2.00		0.25																				8.00
DAY		7.00				1.00																					8.00
EVE		4.50			1.00	2.00	0.25			0.25																	8.00
TOTAL		17.25			3.00	3.00	0.50			0.25																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D. mm	m
1	BIT	444	0.41 m
2	BIT SUB		1.22 m
3	9"DC		9.02 m
4	9"DC		8.56 m
5	9"DC		8.97 m
6	BELL SUB		0.87 m
7	JAR		4.74 m
8	X O.		0.21 m
9	D.C.	171	83.27 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
2	DRILLPIPE	SINGLES	18.47 m
	KELLY DOWN		13.30 m
	TOTAL		149.04 m
	WT. OF D.C.	25	1000 daN
	WT. OF STRING	25	1000 daN

DRILLERS SIGNATURE: DENNIS TESSIER

BIT RECORD

BIT NO.	3
SIZE (mm)	444.5
IADC CODE	
MFG.	SECURITY
Type	SS335
SERIAL NO.	483056
JETS (mm)	22 22 22
DEPTH IN (m)	0.00
DEPTH OUT (m)	
TOTAL METER	149.00
TOTAL HOURS	14.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED: X | OIL BASED:

TIME	1630	2000	2200
DENSITY kg/m3	1140	1140	1150
FUNNEL VIS s/l	44	50	49
W.L. cm/ FILCK		7.0	7.0
PH			8.0

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	22	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
79.00	0.25	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
65.77	149.00	D	120	10

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
3500	152.0	110	152.0	

REDUCED PUMP SPEED: @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW
	6		

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1150	1130	1850
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1150	1135	1790

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	340

MACP

MAX HOOKLOAD: 26

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE
1615	1630	0.25	5	circ. hole clean
1630	1800	1.50	2	DRILL f/65-f/93
1800	1815	0.25	5	circ. hole clean
1815	1915	1.00	6	pull 2 singles dp,run 1 std. dc
1915	1930	0.25	10	DEV. SURVEY @ 79M-1/4 degree
1930	2045	1.25	2	DRILL f/93-f/121
2045	2100	0.25	5	circ. hole clean
2100	2130	0.50	6	pull 2 singles dp,run 1 std. dc.
2130	2315	1.75	2	DRILL f/121-f/149
2315	2330	0.25	5	circ. hole clean
2330	2400	0.50	6	pull 2 singles dp,run 1 std. dc
2400				

Notes:

2

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie						
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING					
SURFACE LOCATION. : 60:20: 122		UNIQUE I.D. : J-76					
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)					

	Opr.	R.M.
(1) Daily Walk Around Inspection		SK
(2) Detailed Inspection-Weekly (Using Check List)		SK
(3) H2S Signs Posted(If Required)		SK
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER

WEATHER: TEMPERATURE -12 | CONDITIONS OVERC. | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC | SLIDING KELLY

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. IO	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRED	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			0.50	1.75	0.25			0.25																	8.00
EVE						1.00	0.25															5.00	1.75				8.00
TOTAL		12.75			0.50	2.75	0.75			0.50												5.00	1.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.,mm	0.00 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
10	DRILLPIPE	STANDS	284.04 m
2	DRILLPIPE	SINGLES	18.91 m
	KELLY DOWN	5.48	m
	TOTAL	485.00	m
	WT. OF D.C.		1000 daN
	WT. OF STRING	36	1000 daN
	DRILLERS SIGNATURE		

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	20 20 20
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	267.00
TOTAL HOURS	34.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED X | OIL BASED

TIME	200	400	600
DENSITY kg/m3	1160	1160	1170
FUNNEL VIS s/l	58	57	54
W.L. cm/ FILCK	12.0	12.0	12.0
PH	11.0	11.0	11.5

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	12	
LIGNITE	1	

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
444.00	0.80	243.5
473.00	0.80	230.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
436.00	485.00	D	30	11

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
9100	152.0	110	152.0	110

REDUCED PUMP SPEED @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1150	1920
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1150	1930

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP

MAX HOOKLOAD 43

TIME LOG

FROM	TO	ELAPSED TIME	CODE
0	15	0.25	7
15	745	7.50	2
745	800	0.25	10
800			

TIME DETAIL

RIG SERVICE

DRILL 311mm HOLE FROM 436m TO 485m

ACCUMULATED SURVEY TIME

Notes: CHECK BRAKE LINKAGE / DIVERTER

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	

	Opr.	R.M.
(1) Daily Walk Around Inspection		SK
(2) Detailed Inspection-Weekly (Using Check List)		SK
(3) H2S Signs Posted(If Required)		SK
(4) Well Licenses & Stick Diagram Posted		
(5) Flare Linss Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		SK
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		SK
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER

WEATHER: TEMPERATURE -12 | CONDITIONS OVERC. | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | YES | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	R/UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			0.50	1.75	0.25			0.25																	8.00
EVE						1.00	0.25															5.00	1.75				8.00
TOTAL		12.75			0.50	2.75	0.75			0.50												5.00	1.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.00 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
11	DRILLPIPE	STANDS	312.56 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		12.87	m
TOTAL		502.00	m
WT. OF D.C.		29	1000 daN
WT. OF STRING		38	1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	2							
SIZE (mm)	311.0							
IADC CODE								
MFG.	R.B.I.							
Type	G.S.P.							
SERIAL NO.	NP-757							
JETS (mm)	20	20	20					
DEPTH IN (m)	218.00							
DEPTH OUT (m)								
TOTAL METER								
TOTAL HOURS								

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm	OTHER	REASON	R.O.P.

DRAG daN 5 TOO 15

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	900	1030
DENSITY kg/m3	1160	1160
FUNNEL VIS s/l	59	57
W.L. cm/ FILCK		
PH	9.0	9.0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
502.00	0.80	236.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
485.00	502.00	D	30	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
8730	152.0	110	152.0	110

REDUCED PUMP SPEED @ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00		1160	1860

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00		1160	1860

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	815	0.25	7	RIG SERVICE
815	1330	5.25	2	DRILL 311mm HOLE FROM 485m TO 502M
1330	1400	0.50	5	CIR WORK DRILL STRING
1400	1415	0.25	10	DEV. SURVEY AT 502 M INC .8 AZ 236.7
1415	1600	1.75	6	POH AND LAY DOWN SAME TO RUN 17 1/2" HOLE OPENER
1600				

Notes:

EVENING SHIFT

LICENCE NO. :

WELL NAME AND NO. : Paramount Anadarko Bovie

OPERATOR.: PARAMOUNT RESOURCES LTD.

CONTRACTOR: SHEHTAH DRILLING

SURFACE LOCATION.: 60:20: 122

UNIQUE I.D. : J-76

OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Day	R.M.
	SK
	SK
	SK
	SK

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	SK
	SK

YEAR 2001 | MONTH 12 | DAY 26

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER

WEATHER

TEMPERATURE	-12
CONDITIONS	OVERC.
WIND DIRECTION	
ROAD CONDITION	

SAFETY TOPIC: LAYING DOWN TOOLS

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS | YES | NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG/UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		5.25			0.50	1.75	0.25			0.25																	8.00
EVE						1.00	0.25															5.00	1.75				8.00
TOTAL		12.75			0.50	2.75	0.75			0.50												5.00	1.75				24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.00 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
11	DRILLPIPE	STANDS	312.56 m
	DRILLPIPE	SINGLES	m
KELLY DOWN		12.87	m
TOTAL		502.00	m
WT. OF D.C.		29	1000 daN
WT. OF STRING		38	1000 daN

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	28 28 28
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	100	SX
SODA ASH	1	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1700	1.00	6	POOH WITH DC
1700	2200	5.00	22	BREAK DOWN DIRECTIONAL TOOLS
2200	2345	1.75	23	PICK UP AND MAKE UP B.H.A.
2345	2400	0.25	7	RIG SERVICE
2400				

Notes: CHECK BRAKE LINKAGE/DIVERTER

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	R.M.
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well Licenses & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 25

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 265 | BOILER 350

WEATHER: TEMPERATURE -11 | CONDITIONS OVERC | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC: CHANGING TONG DIES

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. I.D	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S): NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS: x YES NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	SVY. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.00					0.50			0.50																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.00					1.00			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X O.		0.21 m
			m
			m
			m
			m
4	DRILLPIPE	STANDS	113.89 m
2	DRILLPIPE	SINGLES	18.68 m
KELLY DOWN			10.56 m
TOTAL			320.00 m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE | NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	20 20 20
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	102.00
TOTAL HOURS	12.75

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME	200	400	600
DENSITY kg/m3	1130	1130	1140
FUNNEL VIS s/l	44	45	48
W.L. cm/ FILCK	10.0	10.0	9.0
PH	9.0	9.0	9.0
PVT	35.80	36.80	37.50

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	15	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
247.00	0.90	242.7
284.00	1.00	246.3

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
265.00	320.00	D	30	10

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5900	152.0	90	152.0	90

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	1130	1130	1880
HOURS	INTAKE	OVERFLOW	UNDERFLOW
12.00	1130	1130	1930

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP

MAX HOOKLOAD 35

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	745	7.50	2	DRILL 311mm HOLE FROM 265m TO 320m
745	800	0.25	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

	Opr.	Rig
(1) Daily Walk Around Inspection	WC	SK
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)	WC	SK
(4) Well License & Stick Diagram Posted	WC	SK
(5) Flare Lines Staked	WC	
(6) BOP Drills Performed	WC	
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	WC	SK
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 25

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 265 | BOILER 350

WEATHER: TEMPERATURE -11 | CONDITIONS OVERC | WIND DIRECTION | ROAD CONDITION

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. 2 | TYPE DFS | TYPE

CHANGE SCREENS | X | YES | | NO

TOP 120 | MIDDLE 50 | BOTTOM 50

TOP 120 | MIDDLE 50 | BOTTOM 50

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.00					0.50			0.50																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.00					1.00			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
7	DRILLPIPE	STANDS	199.14 m
1	DRILLPIPE	SINGLES	9.71 m
KELLY DOWN			3.28 m
TOTAL			389.00 m
WT. OF D.C.			29 1000 daN
WT. OF STRING			33 1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	20 20 20
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	172.00
TOTAL HOURS	4.50

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED | X | OIL BASED

TIME	900	1230	
DENSITY kg/m3	1130	1150	
FUNNEL VIS s/l	47	47	
W.L. cm/ FILCK	11.0	11.0	
PH	11.0	10.0	

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
341.21	1.00	259
369.50	1.00	260.6

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
320.00	389.00	D	30	12

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
6400	152.0	95	152.0	95

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1130	1130	1920
HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1130	1120	1940

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	930	1.50	2	DRILL 311mm HOLE
930	1000	0.50	7	RIG SERVICE
1000	1115	1.25	2	DRILL 311mm HOLE
1115	1130	0.25	10	SURVEY INC 1.00 AZ 259
1130	1445	3.25	2	DRILL 311mm HOLE FR/341.21
1445	1500	0.25	10	DEV. SURVEY
1500	1600	1.00	2	DRILL FROM 369.52
1600				

Notes:

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
WC	SK
WC	SK
WC	SK
WC	
WC	
WC	SK

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) O.A..O.D.O. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2001	MONTH 12	DAY 25
RIG NO.: 4		
FUEL @ 08:00 HRS.		
RIG 265	SCR/ER 350	

WEATHER
TEMPERATURE -11
CONDITIONS OVERC
WIND DIRECTION
ROAD CONDITION

SAFETY TOPIC

HOUSEKEEPING

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
2	DFS	

CHANGE SCREENS x YES NO

TOP	TOP
120	120
MIDDLE 50	MIDDLE 50
BOTTOM 50	BOTTOM 50

RENTALS / SERVICES

	Mom	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		7.50					0.25			0.25																	8.00
DAY		7.00					0.50			0.50																	8.00
EVE		7.50					0.25			0.25																	8.00
TOTAL		22.00					1.00			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	P.B.L. SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	0	9.02 m
10	D.C.		8.56 m
11	D.C.		8.97 m
12	BELL JAR		0.87 m
13	JAR	168	4.83 m
14	12 171mm D		111.24 m
15	X O.		0.21 m
			m
			m
			m
			m
8	DRILLPIPE	STANDS	227.48 m
2	DRILLPIPE	SINGLES	19.08 m
KELLY DOWN		12.57	m
TOTAL		436.00	m
WT. OF D.C.			1000 den
WT. OF STRING		36	1000 den

DRILLERS SIGNATURE NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	G.S.P.
SERIAL NO.	NP-757
JETS (mm)	20 20 20
DEPTH IN (m)	218.00
DEPTH OUT (m)	
TOTAL METER	218.00
TOTAL HOURS	27.25

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG dan
TORQUE
FILL m

MUD RECORD

WATER BASED OIL BASED

TIME		1930	2200
DENSITY kg/m3		1150	1150
FUNNEL VIS s/l		45	48
W.L cm/ FILCK		12.0	12.0
PH		10.0	10.0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
398.70	1.20	266.7

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
389.00	436.00	D	35	12

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
71	152.0	95	152.0	95

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1150	1900

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1160	1150	1900

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	340

MACP 0
MAX HOOKLOAD 43

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE / FUNCTION ANNULAR
1615	2345	7.50	2	DRILL 311mm HOLE FROM 389m TO 436m
2345	2400	0.25	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK BRAKE LINKAGE / DIVERTER

MORNING SHIFT

LICENCE NO.: EL369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.		CONTRACTOR: SHEHTAH DRILLING	
SURFACE LOCATION: 60:20: 122		UNIQUE I.D.: J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO		STEPHAN KOHLENDORFER	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well Licenses & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Oper.	R.M.
WC	SK
WC	
WC	
WC	
WC	

YEAR 2001 | MONTH 12 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER 350

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: ROTARY BACK TOURQUE

	O.D. mm	MIN. I.D.	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC, DP SIZE	KG / M	GRADE	MIN. I.D.	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S): NO. | TYPE | TYPE

CHANGE SCREENS: YES | NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIG UP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRING	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.50					0.25			1.25																	8.00
DAY		3.00			1.75	3.00				0.25																	8.00
EVE		5.25			0.50	2.00				0.25																	8.00
TOTAL	12h	14.75			2.25	5.00	0.25			1.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm	0.30 m
1	BIT SUB	311	0.41 m
1	MOTOR	245	9.20 m
1	FLOAT SUB	230	0.66 m
1	STAB	228	1.74 m
1	NMDC	230	9.44 m
1	TRANS SUB	227	1.98 m
1	NMDC	230	9.44 m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL	33.17	m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE: REN. L'HIRONDELLE

BIT RECORD

BIT NO.	1
SIZE (mm)	311.0
IADC CODE	
MFG.	REED
TYPE	HP 12
SERIAL NO.	CT6297
JETS (mm)	14 | 16 | 16
DEPTH IN (m)	33.00
DEPTH OUT (m)	189.00
TOTAL METER	156.00
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN

TORQUE

FILL m

MUD RECORD

	WATER BASED	OIL BASED
TIME	200	600
DENSITY kg/m3	1120	1130
FUNNEL VIS s/l	47	48
W.L. cm/ FILCK	11.0	11.0
PH	10.0	10.0

MUD MATERIALS USED

TYPE	QTY	UNITS
GEL	5	SX

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
152.00	0.30	246.2
180.00	0.70	239.9

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
143.00	189.00	D	40	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5600	152.0	125	152.0	125

REDUCED PUMP SPEED: @ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00		1110	1910

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	9.5	330

MACP

MAX HOOKLOAD: 30

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	15	0.25	7	RIG SERVICE
15	645	6.50	2	DRILL 311 mm HOLE FROM 143m TO 189m
645	800	1.25	10	ACCUMULATED SURVEY TIME
800				

Notes: CHECK BRAKE LINKAGE/DIVERTER

DAY SHIFT

LICENCE NO.: EL369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOHLENDORFER	SAFETY TOPIC	HANDLING DIRECTIONAL

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
WC	SK
WC	
WC	
WC	
WC	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2001 | MONTH 12 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER 350

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING									
TUBING OR LINER									

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS | YES | NO

TOP	TOP	
MIDDLE	MIDDLE	
BOTTOM	BOTTOM	

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.	OPER.	1 RECUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIRRIG	9 CUT OFF DRLG. LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG. & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P	15 TEST B.O.P.	16 DRILL STEM	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIRECTIONAL WORK	21 SAFETY MEETING	22	23	24	25	26	TOTAL
	MORN		6.50					0.25			1.25																	8.00
	DAY		3.00			1.75	3.00				0.25																	8.00
	EVE		5.25			0.50	2.00				0.25																	8.00
	TOTAL		14.75			2.25	5.00	0.25			1.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D. mm	m
1	BIT	311	0.30 m
2	SR SUB	311	6.41 m
3	MOTOR	245	9.20 m
4	ELEGANT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR	168	4.83 m
14	12 DC	171	111.24 m
15	DCO		0.21 m
			m
			m
			m
			m
1	DRILLPIPE	STANDS	28.70 m
	DRILLPIPE	SINGLES	m
	KELLY DOWN	13.03	m
	TOTAL	218.60	m
	WT. OF D.C.	29	1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE | HARVEY PATTON

BIT RECORD

BIT NO.	R1	2
SIZE (mm)	311.0	311.0
IADC CODE		
MFG.	REED	R.B.I.
Type	HP 12	GSP
SERIAL NO.	CT6297	NP757
JETS (mm)	14 16 16	20 20 22
DEPTH IN (m)	33.00	218.60
DEPTH OUT (m)	218.60	
TOTAL METER	185.60	
TOTAL HOURS	32.00	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	800	1030
DENSITY kg/m3	1130	1140
FUNNEL VIS s/l	48	48
W.L. cm³ FILCK	11.0	1300.0
PH	10.0	10.0

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
208.90	0.70	236.2

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
189.00	218.60	D	45	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
5780	152.0	100	152.0	100

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
	1130	1100	

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	11.0	380

MACP | 0

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1015	2.25	2	DRILL 311mm HOLE
1015	1030	0.25	10	DEV. SURVEY
1030	1115	0.75	2	DRILL 311mm HOLE
1115	1300	1.75	5	MIX MUD & CIRC. CONDITION MUD WORK PIPE
1300	1500	2.00	6	P O H WITH BIT NO ONE
1500	1600	1.00	6	CHANGE OUT BIT NO 1

Notes:

CORY DELOWSKI PINCHED HIS LEFT LITTLE FINGER

EVENING SHIFT

LICENCE NO.: EL369	WELL NAME AND NO.: Paramount Anadarko Bovie
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	STEPHAN KOHLENDORFER

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Preformed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

Opr.	R.M.
WC	SK
WC	
WC	
WC	
WC	

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2001 | MONTH 12 | DAY 24

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 215 | BOILER 350

WEATHER: TEMPERATURE; CONDITIONS; WIND DIRECTION; ROAD CONDITION

SAFETY TOPIC: CHANGING TONG DIES

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQU'EZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN		6.50					0.25			1.25																	8.00
DAY		3.00			1.75	3.00				0.25																	8.00
EVE		5.25			0.50	2.00				0.25																	8.00
TOTAL		14.75			2.25	5.00	0.25			1.75																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.			
1	BIT/ MILLS	O.D.mm	0.30 m
2	BIT SUB	311	0.41 m
3	MOTOR	245	9.20 m
4	FLOAT SUB	230	0.66 m
5	STAB	228	1.74 m
6	NMDC	230	9.44 m
7	TRANS SUB	227	1.98 m
8	NMDC	230	9.44 m
9	D.C.	228	9.02 m
10	D.C.	228	8.56 m
11	D.C.	228	8.97 m
12	BELL SUB		0.87 m
13	JAR	168	4.83 m
14	12 DC	171	111.24 m
15	X.O.		0.21 m
			m
			m
			m
			m
1	DRILLPIPE	STANDS	28.70 m
	DRILLPIPE	SINGLES	m
KELLY DOWN			13.03 m
TOTAL			218.60 m
WT. OF D.C.			29 1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	2
SIZE (mm)	311.0
IADC CODE	
MFG.	R.B.I.
Type	GSP
SERIAL NO.	NP757
JETS (mm)	20 20 22
DEPTH IN (m)	218.60
DEPTH OUT (m)	
TOTAL METER	46.40
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
		0

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
218.60	265.00	D	30	9

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
59	152.0	90	152.0	90

REDUCED PUMP SPEED @ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	10.0	350

MACP

MAX HOOKLOAD 32

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1800	2.00	6	RIH
1800	1830	0.50	5	BREAK CIRCULATION/ WASH TO BOTTOM
1830	2345	5.25	2	DRILL 311mm HOLE FROM 219m TO 265m
2345	2400	0.25	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK BRAKE LINKAGE / DIVERTER

MORNING SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60-20-122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOLENDORFER	SAFETY TOPIC	

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Preformed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001	MONTH 12	DAY 23	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG 196	BOILER		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)			
NO.	TYPE	TYPE	
CHANGE SCREENS		YES	NO
TOP		TOP	
MIDDLE		MIDDLE	
BOTTOM		BOTTOM	

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1 OPER.	2 RIG UP & TEARDOWN / DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRLG. LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG. & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P	15 TEST B.O.P.	16 DRILL STEM	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIRECTIONAL WORK	21 SAFETY MEETING	22	23	24	25	26	TOTAL
MORN			4.25			3.75																					8.00
DAY		5.25	2.00				0.25			0.50																	8.00
EVE		7.25					0:25			0.50																	8.00
TOTAL		12.50	6.25			3.75	0.50			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT / MILLS	O.D.mm		
1	BIT/ MILLS	O.D.mm	0.30	m
1	BIT SUB	311	0.41	m
1	MOTOR	245	9.20	m
1	FLOAT SUB	230	0.66	m
1	STAB	228	1.74	m
1	NMDC	230	9.44	m
1	TRANS SUB	227	1.58	m
1	NMDC	230	9.44	m
				m
				m
				m
				m
				m
				m
				m
				m
	DRILL PIPE	STANDS		m
	DRILL PIPE	SINGLES		m
	KELLY DOWN			m
	TOTAL		32.17	m
	WT. O.D.C.			1000 daN
	WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	R1
SIZE (mm)	311.0
IADC CODE	
MFG.	REED
Type	HP12
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	33.00
DEPTH OUT (m)	
TOTAL METERS	
TOTAL HOURS	0.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN	
TORQUE	
FILL m	8.00

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
25.00	33.00	R		

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.4		152.4	

REDUCED PUMP SPEED			
@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	9.0	380

MACP	
MAX HOOKLOAD	

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	345	3.75	6	TRIPS PICK UP TOOLS AND SET TOOLS, PICK UP BHA
345	800	4.25	3	REAMING TO BOTTOM
800				

Notes: CHECK BRK ,BOPS

DAY SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOLENDORFER	SAFETY TOPIC	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A. O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

Opr.	R.M.

YEAR 2001 | MONTH 12 | DAY 23

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 196 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER

O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS		
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN			4.25			3.75																					8.00
DAY		5.25	2.00				0.25			0.50																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		12.50	6.25			3.75	0.50			1.00																	24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm		
1	BIT/ MILLS	O.D.mm	0.30	m
1	STAB SUB	311	0.41	m
1	MOTOR	245	9.20	m
1	FLOAT SUB	230	0.66	m
1	STAB	228	1.74	m
1	NMDC	230	9.44	m
1	TRANS SUB	227	1.98	m
1	NMDC	230	9.44	m
3	DC	228	26.55	m
1	BELL SUB		0.87	m
1	JAR	168	4.83	m
1	X.O.		0.21	m
1	D.C.	165	9.60	m
				m
				m
				m
				m
				m
				m
	DRILLPIPE	STANDS		m
	DRILLPIPE	SINGLES		m
KELLY DOWN			11.77	m
TOTAL			87.00	m
WT. OF D.C.				1000 daN
WT. OF STRING				1000 daN

DRILLERS SIGNATURE: HARVEY PATTON

BIT RECORD

BIT NO.	
SIZE (mm)	311.0
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	33.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	0.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.

DRAG daN
TORQUE
FILL m

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
69.00	0.03	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
33.00	87.00	D	45	8

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
4000	152.4	100	152.4	100

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00			

BOILER

HRS. RUN	PH	STACK deg
8.00	12.0	380

MACP
MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1000	2.00	3	MADE UP 230 MM DC,WASH AND REAM TO BTTOM
1000	1300	3.00	2	DRILL 311 MM HOLE
1300	1330	0.50	10	DEV. SURVEY CIRCULATE
1330	1345	0.25	7	RIG SERVICE
1345	1600	2.25	2	DRILL 311 MM HOLE

Notes:

EVENING SHIFT

LICENCE NO.: EL 369	WELL NAME AND NO.: Paramount Anadarko Bovie		
OPERATOR: PARAMOUNT RESOURCES LTD.	CONTRACTOR: SHEHTAH DRILLING		
SURFACE LOCATION: 60:20: 122	UNIQUE I.D.: J-76		
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		
WILBERT CALLIHOO	STEPHAN KOLENDORFER	SAFETY TOPIC	ROTARY BACK TORQUE

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Slick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 23

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 196 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS | YES | NO

TOP	TOP	
MIDDLE	MIDDLE	
BOTTOM	BOTTOM	

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CORC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIRS	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN			4.25			3.75																					8.00
DAY		5.25	2.00				0.25			0.50																	8.00
EVE		7.25					0.25			0.50																	8.00
TOTAL		12.50	6.25			3.75	0.50			1.00																	24.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.mm	
1	BIT/ MILLS		0.30 m
1	BIT SUB	311	0.41 m
1	MOTOR	245	9.20 m
1	FLOAT SUB	230	0.66 m
1	STAB	228	1.74 m
1	NMDC	230	9.44 m
1	TRANS SUB	227	1.98 m
1	NMDC	230	9.44 m
3	D.C.	228	26.55 m
1	X.O.	165	0.87 m
1	JAR	165	4.83 m
1	X.O.	165	0.21 m
7	D.C.	165	67.20 m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			10.17 m
TOTAL			143.00 m
WT. OF D.C.			1000 daN
WT. OF STRING			1000 daN

DRILLERS SIGNATURE: NEIL L'HIRONDELLE

BIT RECORD

BIT NO.	1
SIZE (mm)	311.0
IADC CODE	
MFG.	REED
Type	HP12
SERIAL NO.	CT-6297
JETS (mm)	16 14 16
DEPTH IN (m)	33.00
DEPTH OUT (m)	143.00
TOTAL METER	110.00
TOTAL HOURS	0.00

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE mm	OTHER	REASON	R.O.P.

DRAG daN	8
TORQUE	
FILL m	0.00

MUD RECORD

WATER BASED [X] OIL BASED [ ]

TIME	1400		
DENSITY kg/m3	1120		
FUNNEL VIS s/l	47		
W.L cm/ FILCK	11.0		
PH	10.0		

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
87.00	0.30	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
80.00	143.00	D	40	7

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.4	120	152.4	120

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1120	1110	1190

HOURS	INTAKE	OVERFLOW	UNDERFLOW
8.00	1120	1110	1190

BOILER

HRS. RUN	PH	STACK deg
8.00	12.0	380

MACP	0
MAX HOOKLOAD	25

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1615	0.25	7	RIG SERVICE FUNCTION ANNULAR
1615	2330	7.25	2	DRILL 311mm HOLE FROM 80m TO 143m
2330	2400	0.50	10	ACCUMULATED SURVEY TIME
2400				

Notes: CHECK BRAKE LINKAGE / DIVERTER

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)
WILBERT CALLIHOO	

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (Using Check List)
(3) H2S Signs Posted(If Required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flexibles & Degasser Lines

	Opr.	R.M.

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

YEAR 2001	MONTH 12	DAY 22
RIG NO.: 4		
FUEL @ 08:00 HRS.		
RIG 254	BOILER	

WEATHER

TEMPERATURE	
CONDITIONS	
WIND DIRECTION	
ROAD CONDITION	

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC , DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE

CHANGE SCREENS YES NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY		8.00																									8.00
EVE		3.00				4.00				1.00																	8.00
TOTAL		11.00				4.00				1.00																	16.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 daN
	WT. OF STRING		1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.		
SIZE (mm)		
IADC CODE		
MFG.		
Type		
SERIAL NO.		
JETS (mm)		
DEPTH IN (m)		
DEPTH OUT (m)		
TOTAL METER		
TOTAL HOURS		

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	T.O.P.

DRAG daN	
TORQUE	
FILL m	

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm³/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
0.00		

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.4		152.4	

REDUCED PUMP SPEED

@		@	

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	9.0	380

MACP	
MAX HOOKLOAD	

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
0	800	8.00		CIRCULAT AND MIX MUD,FUNTION TEST DIVERTER AND HCR VALVE
800				CALIBRATE PASON, PICK UP BHA

Notes: FUNCTION TEST ANNULAR / HCR ON DIVERTER

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO			SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A..O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 22

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG 254 | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	CRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY		8.00																									8.00
EVE		3.00				4.00				1.00																	8.00
TOTAL		11.00				4.00				1.00																	16.00

BIT RECORD

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | | |

	BIT / MILLS	O.D.mm	m
1	BIT		0.30 m
1	STRING S		0.41 m
1	MOTOR		9.20 m
1	FLOAT SUB		0.66 m
1	STAB		1.74 m
1	MONEL		9.44 m
1	TRANS SUB		1.98 m
1	MONEL		9.44 m
1	BELL SUB		0.87 m
3	9" DC		26.55 m
1	X.O.		0.21 m
1	JAR		4.83 m
3	171 mm DC		27.66 m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN			m
TOTAL		93.29	m
WT. OF D.C.			1000 daN
WT. OF STRING		20	1000 daN

DRILLERS SIGNATURE

BIT NO.	R1
SIZE (mm)	1A
IADC CODE	
MFG.	Reed
Type	HP12
SERIAL NO.	
JETS (mm)	15/32 4
DEPTH IN (m)	33.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE(mm)	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

	WATER BASED		OIL BASED	
TIME				
DENSITY kg/m3				
FUNNEL VIS s/l				
W.L. cm/ FILCK				
PH				

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
0.00	30.00	D	45	2

Circ. Prase (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
2000	152.4		152.4	100

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	9.0	380

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1600	8.00	2	SPUD , DRILL TO 30M
1600				

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
WILBERT CALLIHOO			

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001	MONTH 12	DAY 22	
RIG NO.: 4			
FUEL @ 06:00 HRS.			
RIG 254	BOILER		
WEATHER	TEMPERATURE		
	CONDITIONS		
	WIND DIRECTION		
	ROAD CONDITION		

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC , DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)		
NO.	TYPE	TYPE
CHANGE SCREENS		YES / NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	PERMS	DIRECTIONAL WORK	SAFETY MEETING						
MORN																											
DAY		8.00																									8.00
EVE		3.00				4.00				1.00																	8.00
TOTAL		11.00				4.00				1.00																	16.00

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT/ MILLS	O.D.mm	
1	BIT		0.30 m
1	STRING SU		0.41 m
1	MOTOR		9.20 m
1	FLOAT SUB		0.66 m
1	STAB		1.74 m
1	MONEL		9.44 m
1	TRANS SUB		1.98 m
1	MONEL		9.44 m
3	9" DC		26.55 m
1	BELL SUB		0.87 m
1	JAR		4.83 m
3	171mm DC		27.66 m
1	X.O.		0.21 m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
KELLY DOWN		13.08	m
TOTAL		106.37	m
WT. OF D.C.		20	1000 dan
WT. OF STRING		20	1000 dan
DRILLERS SIGNATURE			

BIT RECORD

BIT NO.	R1
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	33.00
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(mm)	OTHER	REASON	R.O.P.

DRAG dan	
TORQUE	
FILL m	

MUD RECORD

WATER BASED [ ] OIL BASED [ ]

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION
29.00	0.25	

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT
30.00	33.00	D	45	4
33.00	106.32	D	45	6

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM
	152.4		152.4	

REDUCED PUMP SPEED

@ 0 @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW
HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00	9.0	380

MACP	
MAX HOOKLOAD	

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	1900	3.00	2	DRILL FROM 30M TO 33M [DILLING BOULDERS]
1900	2000	1.00	10	DEV. SURVEY 29M .25 DEG
2000	2300	3.00	6	TRIPS LAY DOWN BHA
2300	2400	1.00	6	TRIPS PICK UP MWD TOOLS MAKE UP BHA
2400				

Notes: CHECK BRK , BOPS

MORNING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie						
OPERATOR : PARAMOUNT RESOURCES LTD.	CONTRACTOR : SHEHTAH DRILLING						
SURFACE LOCATION : 60:20: 122	UNIQUE I.D. : J-76						
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)						
2244							

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
(3) H2S Signs Posted(If Required)		
(4) Well Licence & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001	MONTH 12	DAY 21	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
KIG	BOILER		
WEATHER	TEMPERATURE		
	CONDITIONS		
	WIND DIRECTION		
	ROAD CONDITION		

SAFETY TOPIC

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)

NO.	TYPE	TYPE
CHANGE SCREENS	YES	NO
TOP		TOP
MIDDLE		MIDDLE
BOTTOM		BOTTOM

RENTALS / SERVICES

	Morn	Day	Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIDUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					4.00									4.00													8.00
DAY					8.00																						8.00
EVE					8.00																						8.00
TOTAL					20.00									4.00													24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
WT. OF D.C.		1000 daN
WT. OF STRING		1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAUGE/mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

MUD RECORD

	WATER BASED		OIL BASED	
TIME				
DENSITY kg/m3				
FUNNEL VIS s/l				
W.L. cm/ FILCK				
PH				

MUD MATERIALS USED

TYPE	QTY	UNITS

DAY SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION. : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE: (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
2244			SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
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(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOP's - Flarelines & Degasser Lines		
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(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001	MONTH 12	DAY 21	
RIG NO.: 4			
FUEL @ 08:00 HRS.			
RIG	BOILER		
WEATHER: TEMPERATURE			
CONDITIONS			
WIND DIRECTION			
ROAD CONDITION			

LAST CASING TUBING OR LINER	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)

DC . DP SIZE	KG / M	GRADE	MIN. ID	TOOL JT. O.D.	TYPE THREAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S)			RENTALS / SERVICES	Morn	Day	Eve
NO.	TYPE	TYPE				
CHANGE SCREENS	YES	NO				
TOP		TOP				
MIDDLE		MIDDLE				
BOTTOM		BOTTOM				

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					4.00									4.00													8.00
DAY					8.00																						8.00
EVE					8.00																						8.00
TOTAL					20.00									4.00													24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR)

BIT/ MILLS	O.D.mm	m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
		m
DRILLPIPE	STANDS	m
DRILLPIPE	SINGLES	m
KELLY DOWN		m
TOTAL		m
WT. OF D.C.		1000 daN
WT. OF STRING		1000 daN

DRILLERS SIGNATURE

BIT RECORD

BIT NO.										
SIZE (mm)										
IADC CODE										
MFG.										
Type										
SERIAL NO.										
JETS (mm)										
DEPTH IN (m)										
DEPTH OUT (m)										
TOTAL METER										
TOTAL HOURS										
	INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE/mm	OTHER	REASON	R.O.P.	

DRAG daN

TORQUE

FILL m

MUD RECORD

WATER BASED ☐ OIL BASED ☐

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00		

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
800	1600	8.00	5	COND MUD & CIRC WAIT ON TANK
1600				

Notes:

EVENING SHIFT

LICENCE NO. :	WELL NAME AND NO. : Paramount Anadarko Bovie		
OPERATOR : PARAMOUNT RESOURCES LTD.		CONTRACTOR : SHEHTAH DRILLING	
SURFACE LOCATION : 60:20: 122		UNIQUE I.D. : J-76	
OPERATORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)		CONTRACTORS REPRESENTATIVE : (I VERIFY AND ACCEPT INFORMATION ON TOUR SHEET TO BE TRUE & CORRECT TO THE BEST OF MY ABILITY)	
2244			SAFETY TOPIC

	Opr.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (Using Check List)		
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(5) Flare Lines Staked		
(6) BOP Drills Performed		
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(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist(one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2001 | MONTH 12 | DAY 21

RIG NO.: 4

FUEL @ 08:00 HRS.

RIG | BOILER

WEATHER: TEMPERATURE | CONDITIONS | WIND DIRECTION | ROAD CONDITION

	O.D. mm	MIN. I.D	kg/m	MAKE	GRADE	# OF JOINTS	TOTAL (m)	KB TO CSG.	SET AT (m)
LAST CASING TUBING OR LINER									

DC , DP SIZE	KG / M	GRADE	MIN.ID	TOOL JT. O.D.	TYPE \ TH .EAD	# OF JOINTS	PUMP MANUFACTURER	PUMP TYPE	STROKE LTH.

SHALE SHAKER(S) — NO. | TYPE | TYPE

CHANGE SCREENS | YES | NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS / SERVICES | Morn | Day | Eve

CODE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER.	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRELINE LOGS	RUN CSG. & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P	TEST B.O.P.	DRILL STEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRECTIONAL WORK	SAFETY MEETING						
MORN					4.00									4.00													8.00
DAY					8.00																						8.00
EVE					8.00																						8.00
TOTAL					20.00									4.00													24.00

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | | | BIT RECORD

	BIT / MILLS	O.D.mm	m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	DRILLPIPE	STANDS	m
	DRILLPIPE	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF D.C.		1000 dan
	WT. OF STRING		1000 dan

DRILLERS SIGNATURE

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
Type	
SERIAL NO.	
JETS (mm)	
DEPTH IN (m)	
DEPTH OUT (m)	
TOTAL METER	
TOTAL HOURS	

INNER	OUTER	DULL	LOCATION	BEARINGS	GAGE(in/m	OTHER	REASON	R.O.P.

DRAG dan

TORQUE

FILL m

MUD RECORD

WATER BASED | OIL BASED

TIME			
DENSITY kg/m3			
FUNNEL VIS s/l			
W.L. cm/ FILCK			
PH			

MUD MATERIALS USED

TYPE	QTY	UNITS

DEVIATION SURVEY

DEPTH (m)	DEVIATION	DIRECTION

METERS DRILLED

FROM	TO	DRILL/ REAM/CR.	ROTARY R.P.M.	WT. ON BIT

Circ. Press (kPa)	PUMP NO. 1 LINER(mm)	PUMP NO. 1 SPM	PUMP NO. 2 LINER(mm)	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

SOLIDS CONTROL EQUIPMENT

DESILTER

HOURS	INTAKE	OVERFLOW	UNDERFLOW

CENTRIFUGE

HOURS	INTAKE	OVERFLOW	UNDERFLOW

HOURS	INTAKE	OVERFLOW	UNDERFLOW

BOILER

HRS. RUN	PH	STACK deg
8.00		

MACP

MAX HOOKLOAD

TIME LOG

FROM	TO	ELAPSED TIME	CODE	TIME DETAIL
1600	2400	8.00	5	COND MUD & CIRC HOOK UP TANK AND LINE

National Energy Board

Office national de l'énergie

NATIONAL ENERGY BOARD
Exploration and Production
JAN 0 5 2009

APPROVAL TO ALTER CONDITION OF A WELL

This application is to be submitted to the Chief Conservation Officer at least 45 days before commencement of operations.

Well Name:	Paramount Anadarko Bovie J-76			
Operator:	Paramount Resources Ltd.		Well ID:	1931
Operating License No.:	1221		Depth:	3353.0m
Contractor:	Concord Well Servicing Ltd.		Drilling Rig or Unit:	RIG #41
Area:	Bovie Lake, Nwt		Grid:	60-20-122-45
Coordinates: (NAD 27)	Surface Lat.:	60°15'44.4"	Long.:	122°59'4.9"
	Bottom Hole Lat:	60°15'44.4"	Long.:	122°59'4.9"
Date ADW issued:		20/Dec/2001	Date of last Operation:	08/Apr/2002
Elevation-KB/RT:		417.0m	GL / Seafloor:	411.0m
Approx. Spud Date:		23/Jan/2009	Est. Days on Location:	3

TYPE OF OPERATION

To re-suspend the well by setting bridge plugs above the existing open perforations.

SUMMARY OF PROPOSED OPERATIONS

(See the attached detailed workover program)

Install BOP's.
Unset packer and pull and lay down the tubing.
Wireline set a bridge plug above the perforations at 2860 mKB.
Pressure test bridge plug. Dump bail cement onto the bridge plug.
Wireline set a bridge plug above the liner top at 2715 mKB.
Pressure test bridge plug and casing. Dump bail cement onto the bridge plug.
Remove the BOP's and install the wellhead.

Signed: Dave Block — Title: Engineering Consultant
Responsible Officer

Name: Dave Block — Operator: Paramount Resources Ltd.

Date: Dec 23/08 — Phone: (403)206-3834

NEB USE ONLY

An approved copy of this notice is to be posted at each drillsite. This operation is authorized under Section 5.(1)(b) of the *Canada Oil and Gas Operations Act* (O-7) and is subject to the terms and conditions attached to this authorization.

Well Status Before Operation:				
Suspended ☐	Date:	21 JAN 09	Signed:	
Completed ☐	File:	- - -		*Chief Conservation Officer*
Abandoned ☐	WID:	1931		
	UWI:	300J766020122452		

Canada

NEB COPY

COLLAR LOG

PROVINCE	NORTHWEST TERRITORIES
FIELD	BOVIE LAKE
WELL	PARAMOUNT ANADARKO BOVIE J-76
COMPANY	PARAMOUNT RESOURCES LTD.

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE LAKE

PROVINCE NORTHWEST TERRITORIES

LOCATION 300J766020122450
Perm. Datum Ground Level Elev.412.00
Log measured from K.B. , 5.30 m above Permanent Datum.

UWI 300J796602012245R
Licence 1931

Other Services:
GAUGE RING

ELEV.K.B.417.30
G.L.412.00

Date	FEBRUARY 20, 2009
Service Order	10205908
Run No.	TWO
BHT	56°C
Depth-Driller	3353.0
Depth-Logger	2852.0
Btm.Log Inter.	2849.5
Top Log Inter.	2700.0
Fluid in Hole	10% KCL KILL FLUID
Fluid Level	SURFACE
Bit Size (mm)	222.0
Unit #	14172
Location	EDMONTON
Recorded By	BEAU NYCHKA
Witnessed By	AL IRONSIDE

Shot Density	No. of Shots	Perf. Interval From	Perf. Interval To

Gun Type
Gun Size

Tubing/Casing Record

Size mm	Wt. Kg/m	From	To
339.7	81.1	SURFACE	511.0
244.5	53.57	SURFACE	1028.0
177.8	38.68	SURFACE	2808.0
114.3	17.26	2739.0	3349.0

Other Services

Service	Type	Size	Depth
Bridge Plug	ALPHA 10K PERMANENT	114.3	2851.3 m
Produc. Packer			
Cement Retainer			
Cement	CLASS 'G' OILWELL	8.0 m LIN.	2845.3 m
Tubing Bottom	Junk Basket Type INNICOR #25		
Seating Nipple	Gauge Ring Size 96.0 mm		

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS Rig: CONCORD #84 Service Order # 10205908

LOG CORRELATED LINER TOP AND DATA PROVIDED BY PARAMOUNT STICK DIAGRAM

WELL LOGGED AS PER CUSTOMER REQUEST

EQUIPMENT DATA

Run No.	Tool Type	Tool No.	Other
ONE	CCLT	DITA	GAUGE RING - 96mm W/ TORPEDO SINKER BAR
TWO	CCLT	DITA	SET BRIDGE PLUG W/ TORPEDO SINKER BAR

Date FEBRUARY 20,09

Type BRIDGE PLUG

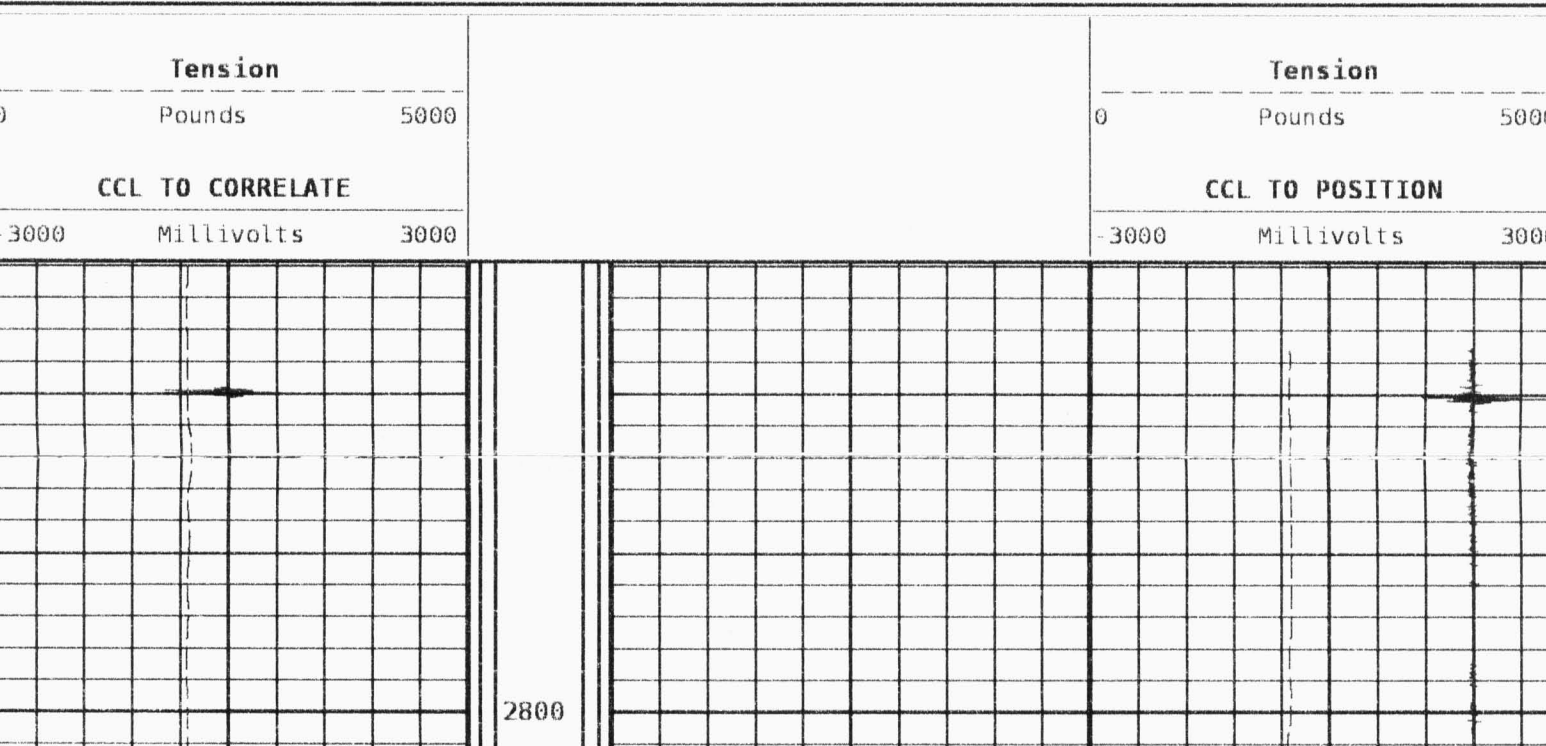
Model ALPHA 10K

Size 114.3 mm

Depth 2851.3 m

Make WEATHERFORD





REMARKS

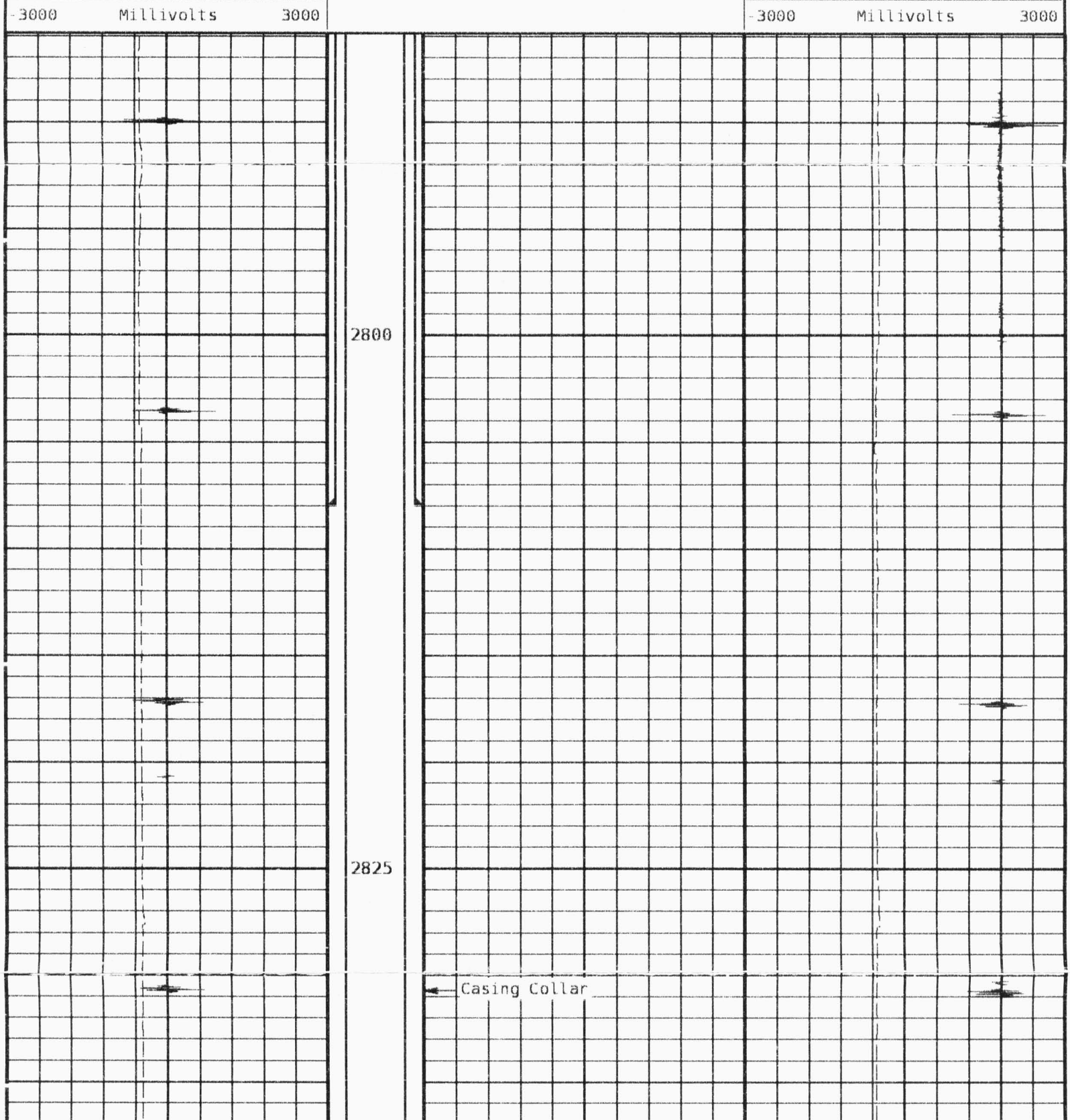
BRIDGE PLUG: 2851.3 m

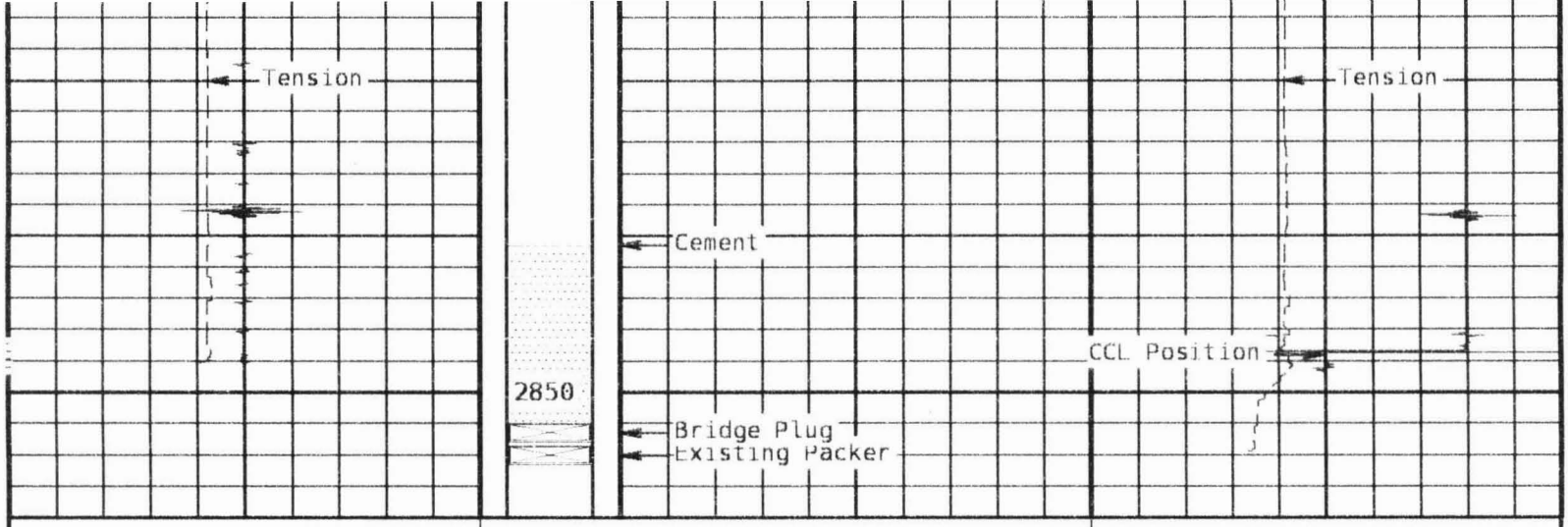
DEPTH SCALE: 1:240 VERSION: 80214133R

MAIN PASS

10205908 BP1

FINISH DEPTH: 2787.2 Meters DIRECTION: UP DATE: 02/20/2009 TIME: 18:49 MODE: TRACE PLAYBACK





CCL TO CORRELATE		
-3000	Millivolts	3000
Tension		
0	Pounds	5000

CCL TO POSITION		
-3000	Millivolts	3000
Tension		
0	Pounds	5000

START DEPTH: **2854.0** DIRECTION: **UP** DATE: **02/20/2009** TIME: **18:49** MODE: **TRACE PLAYBACK**

10205908 BP1

MAIN PASS

DEPTH SCALE: **1:240** VERSION: **80214133R**

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE LAKE PROVINCE NWT

Weatherford

NEB COPY

COLLAR LOG

PROVINCE NWT
FIELD BOVIE LAKE
WELL PARAMOUNT ANADARKO BOVIE J-76
COMPANY PARAMOUNT RESOURCES LTD.

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE LAKE

PROVINCE NORTHWEST TERRITORIES

LOCATION 300J766020122450
Perm. Datum Ground Level Elev.412.00
Log measured from K.B. , 5.30 m above
Permanent Datum.

UWI 300J796602012245Ż
Licence 1931

Other Services:
GAUGE RING
BRIDGE PLUGS
DUMP CEMENT X 3

ELEV.K.B.417.30
G.L.412.00

Date	FEBRUARY 22, 2009
Service Order	10205910
Run No.	ONE
BHT	56°C
Depth-Driller	3353.0
Depth-Logger	2851.3
Btm.Log Inter.	2728.5
Top Log Inter.	20.0
Fluid in Hole	FRESH WATER
Fluid Level	115.0
Bit Size (mm)	N/A
Unit #	14172
Location	EDMONTON
Recorded By	BEAU NYCHKA
Witnessed By	AL IRONSIDE

Shot Density	No. of Shots

Perf. Interval From	To

Gun Type
Gun Size

Tubing/Casing Record

	Size mm	Wt. Kg/m	From	To
	339.7	81.1	SURFACE	511.0
	244.5	53.57	SURFACE	1028.0
	177.8	38.68	SURFACE	2808.0
	114.3	17.26	2739.0	3349.0

Other Services

Service	Type	Size	Depth
Bridge Plug	ALPHA 10K PERMANENT	177.8 mm	2715.0 m
Produc. Packer	ALPHA 10K PERMANENT	177.8 mm	50.0 m
Cement Retainer			
Cement	CLASS 'G' OILWELL	6.0 m LIN.	2845.3 m
CEMENT	CLASS 'G' OILWELL	6.0 m LIN.	2709.0 m
Tubing Bottom	Junk Basket Type INNICOR #25		
Seating Nipple	Gauge Ring Size 155.0 mm		

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS Rig: CONCORD #84 Service Order # 10205910

LOG CORRELATED LINER TOP AND DATA PROVIDED BY PARAMOUNT STICK DIAGRAM

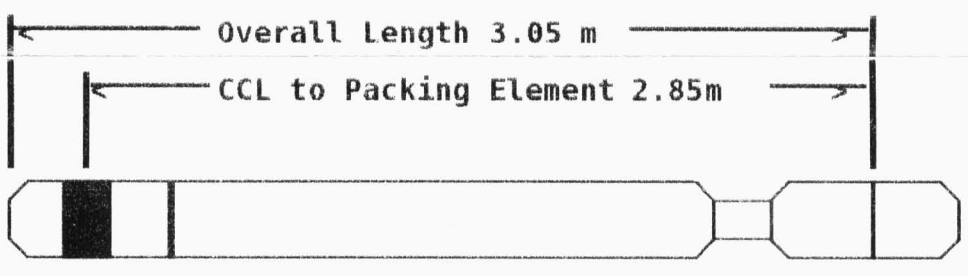
LOG FOR SECOND BRIDGE PLUG CORRELATED TO KB ONLY. IN ORDER TO BYPASS SOFTWARE SAFETY SWITCHES, EXACTLY 100.0 m WAS ADDED TO COMPUTER DEPTH. BRIDGE PLUG SET AT 50.0m AS REQUIRED BY BOARD.

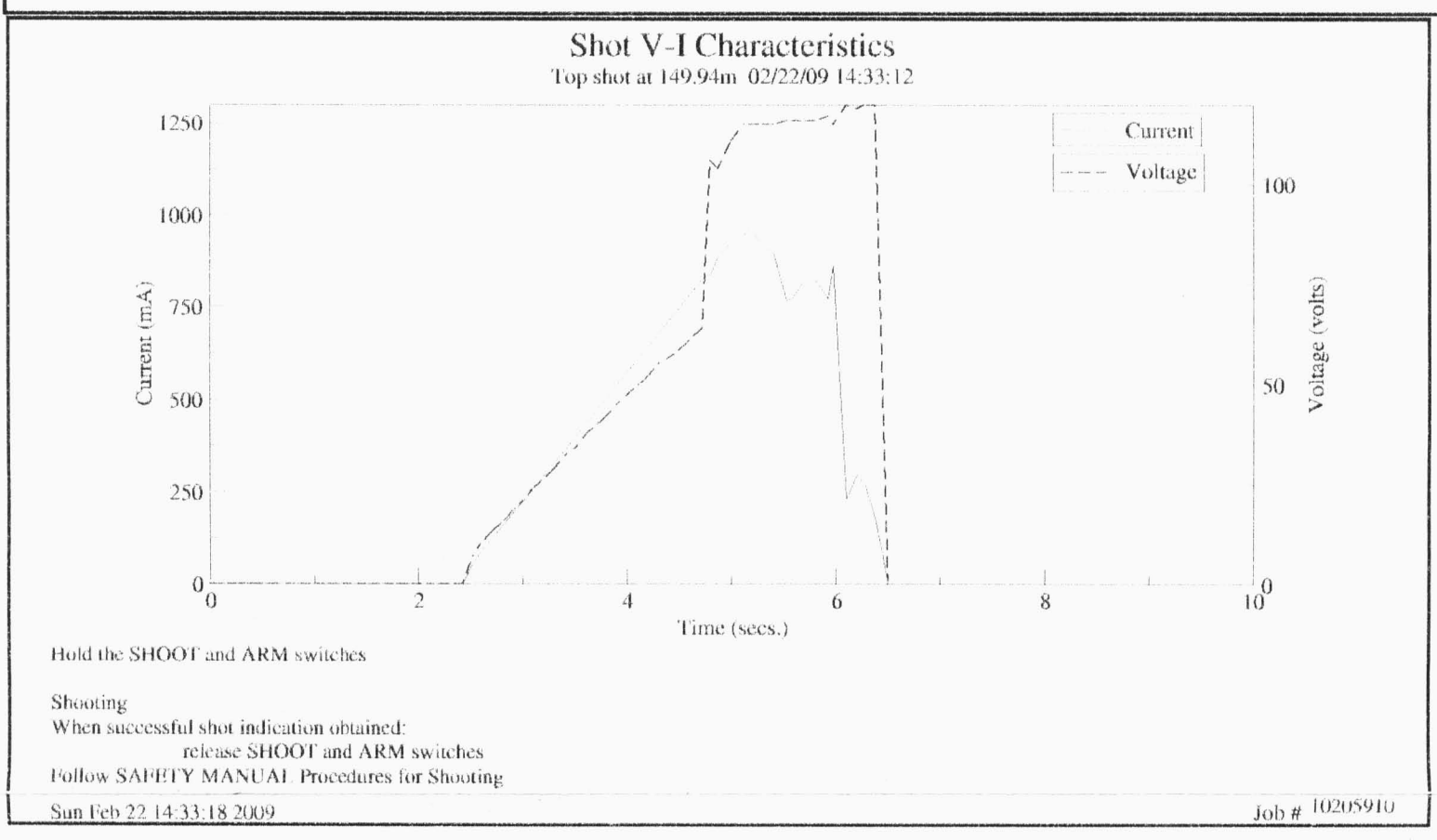
WELL LOGGED AS PER CUSTOMER REQUEST

EQUIPMENT DATA

Run No.	Tool Type	Tool No.	Other
ONE	CCLT	CYTHERIA	DUMP BAIL CEMENT ON TOP OF 114.3 mm PLUG
TWO	CCLT	BELLADONNA	155.0 mm GAUGE RING WITH TORPEDO SINKER BAR
THREE	CCLT	JENNA	SET 177.8 mm BRIDGE PLUG
FOUR	CCLT	CYTHERIA	DUMP BAIL CEMENT
FIVE	CCLT	CYTHERIA	DUMP BAIL CEMENT
SIX	CCLT	JENNA	SET 177.8 mm BRIDGE PLUG

Date 22-FEB-2009
Type PERMANENT
Model ALPHA 10k
Size 177.8 mm
Depth 50.0 m
Make WEATHERFORD





REMARKS

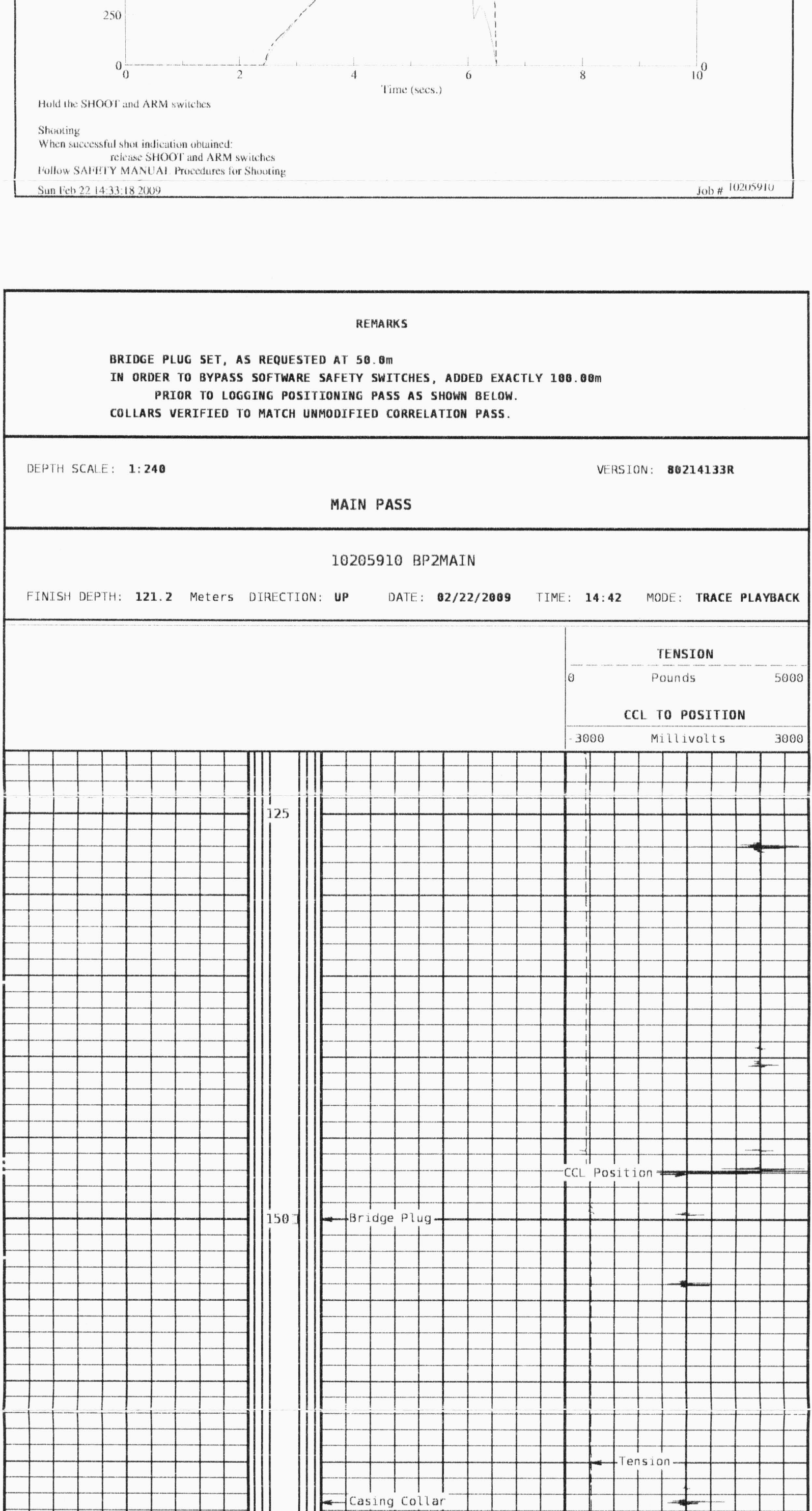
BRIDGE PLUG SET, AS REQUESTED AT 50.0m
IN ORDER TO BYPASS SOFTWARE SAFETY SWITCHES, ADDED EXACTLY 100.00m
PRIOR TO LOGGING POSITIONING PASS AS SHOWN BELOW.
COLLARS VERIFIED TO MATCH UNMODIFIED CORRELATION PASS.

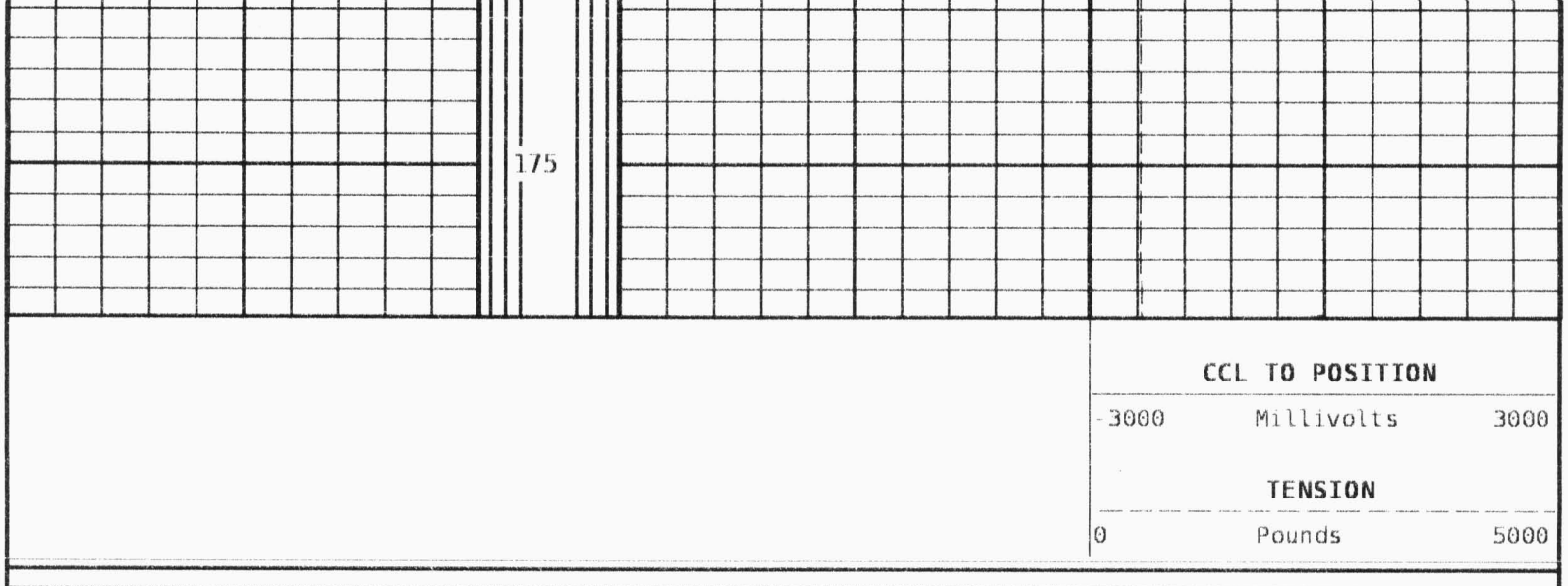
DEPTH SCALE: 1:240 VERSION: 80214133R

MAIN PASS

10205910 BP2MAIN

FINISH DEPTH: 121.2 Meters DIRECTION: UP DATE: 02/22/2009 TIME: 14:42 MODE: TRACE PLAYBACK





CCL TO POSITION		
-3000	Millivolts	3000
TENSION		
0	Pounds	5000

START DEPTH: **179.9** DIRECTION: **UP** DATE: **02/22/2009** TIME: **14:42** MODE: **TRACE PLAYBACK**

10205910 BP2MAIN

MAIN PASS

DEPTH SCALE: **1:240** VERSION: **80214133R**

REMARKS

CORRELATION PASS PULLED TO VERIFY PLUG NOT POSITIONED ON COLLAR.
PASS CORRELATED TO KB ONLY.

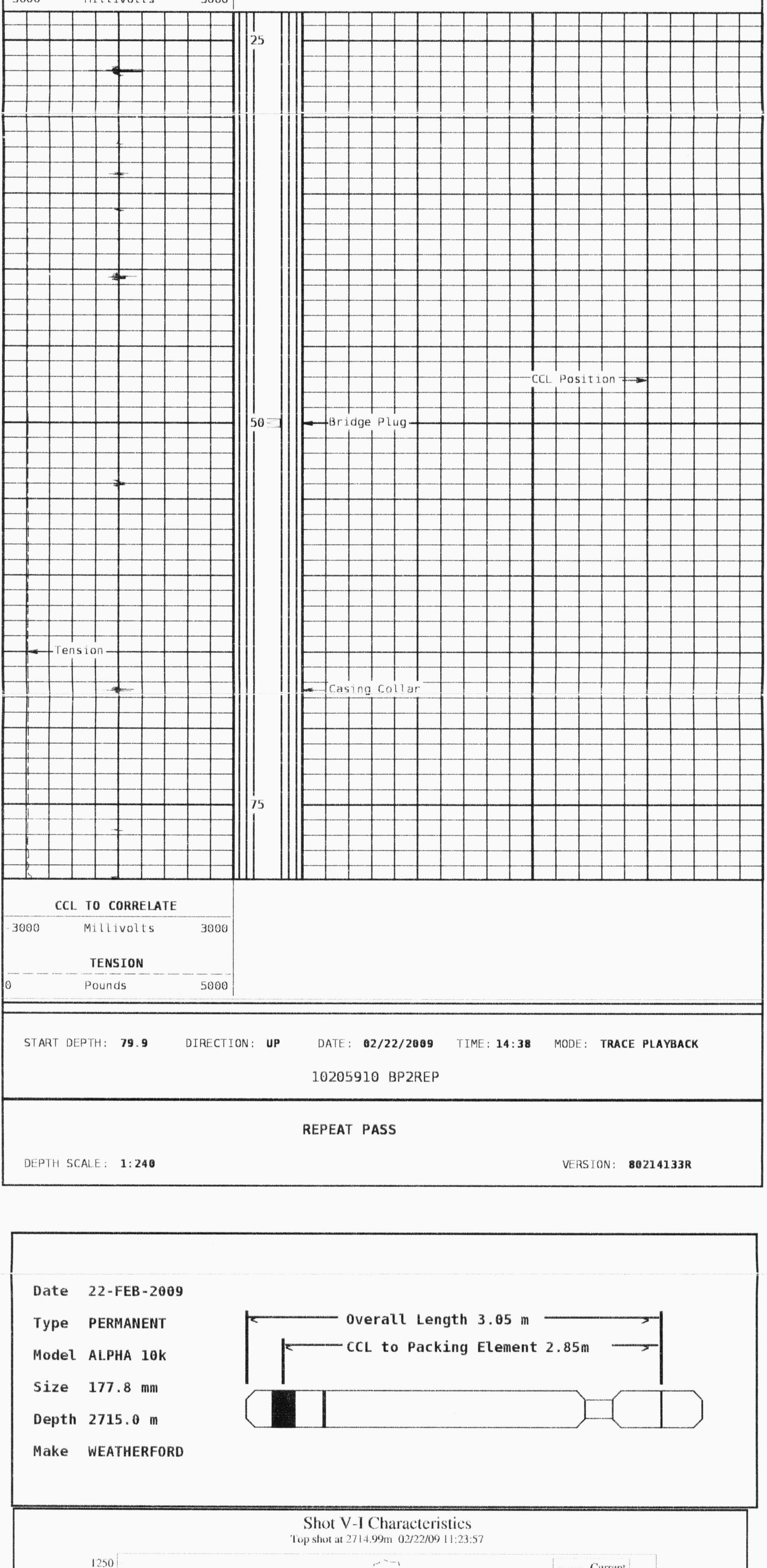
DEPTH SCALE: **1:240** VERSION: **80214133R**

REPEAT PASS

10205910 BP2REP

FINISH DEPTH: **23.2** Meters DIRECTION: **UP** DATE: **02/22/2009** TIME: **14:38** MODE: **TRACE PLAYBACK**

TENSION		
0	Pounds	5000
CCL TO CORRELATE		
-3000	Millivolts	3000



CCL TO CORRELATE		
-3000	Millivolts	3000
TENSION		
0	Pounds	5000

START DEPTH: **79.9** DIRECTION: **UP** DATE: **02/22/2009** TIME: **14:38** MODE: **TRACE PLAYBACK**

10205910 BP2REP

REPEAT PASS

DEPTH SCALE: **1:240** VERSION: **80214133R**

Date 22-FEB-2009

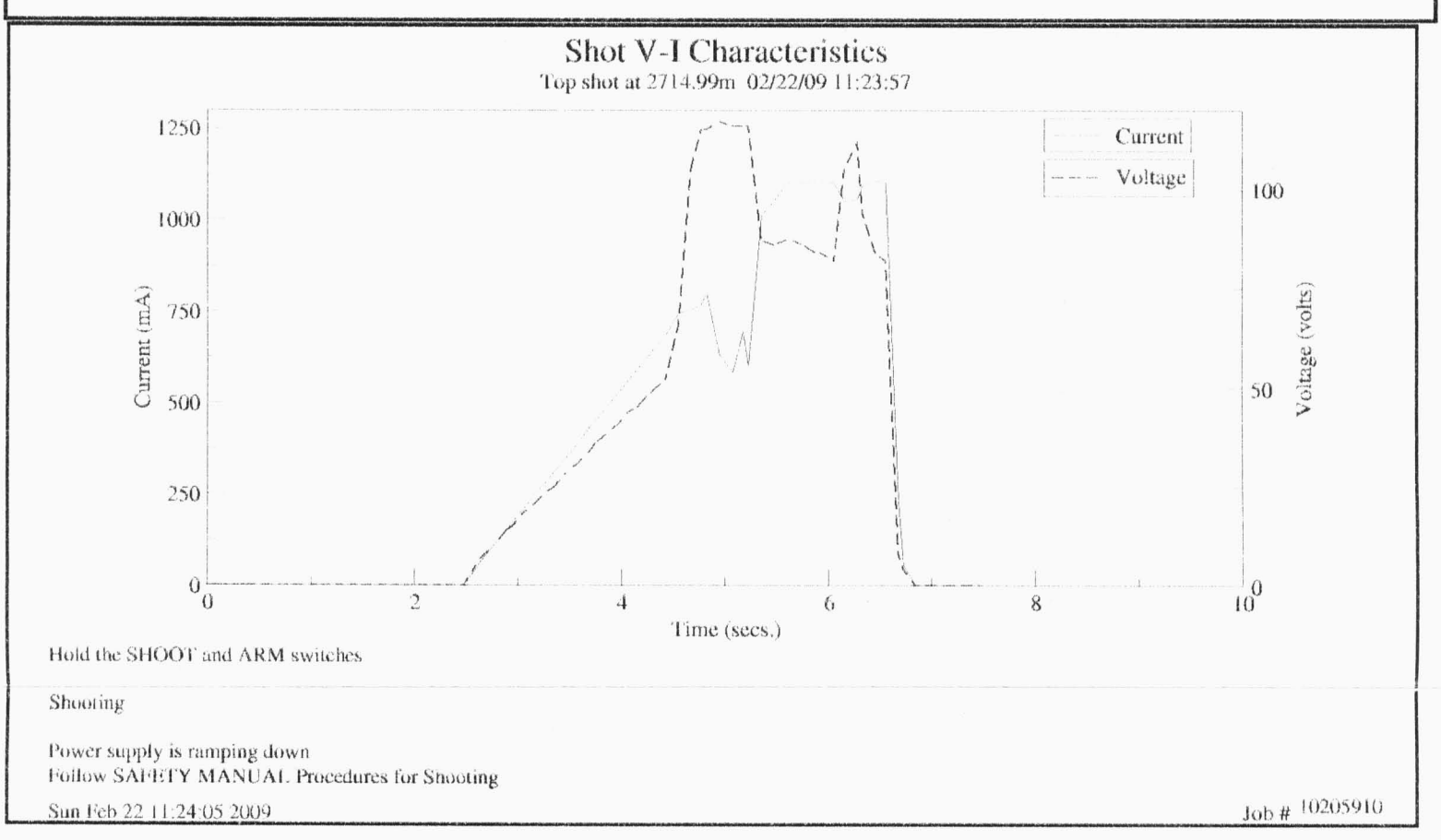
Type PERMANENT

Model ALPHA 10k

Size 177.8 mm

Depth 2715.0 m

Make WEATHERFORD



Hold the SHOOT and ARM switches

Shooting

Power supply is ramping down
Follow SAFETY MANUAL Procedures for Shooting

Sun Feb 22 11:24:05 2009 Job # 10205910

REMARKS

BRIDGE PLUG SET: 2715.0 m

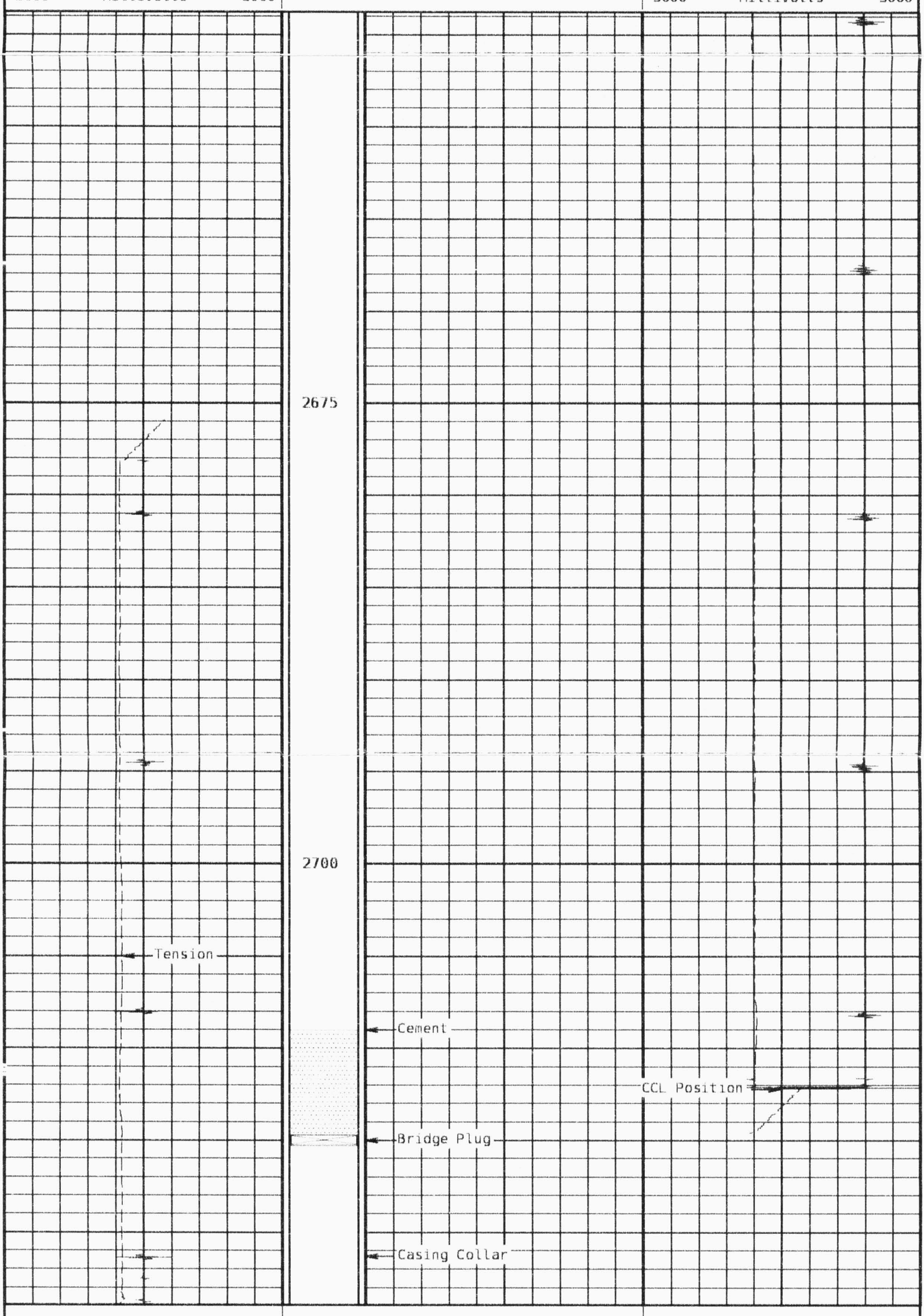
DEPTH SCALE: **1:240** VERSION: **80214133R**

MAIN PASS

10205910 BP1

FINISH DEPTH: **2653.8** Meters DIRECTION: **UP** DATE: **02/22/2009** TIME: **11:34** MODE: **TRACE PLAYBACK**

TENSION		TENSION
0 Pounds 5000		0 Pounds 5000
CCL TO CORRELATE		**CCL TO POSITION**
-3000 Millivolts 3000		-3000 Millivolts 3000



CCL TO CORRELATE		CCL TO POSITION
-3000 Millivolts 3000		-3000 Millivolts 3000
TENSION		**TENSION**
0 Pounds 5000		0 Pounds 5000

START DEPTH: **2723.9** DIRECTION: **UP** DATE: **02/22/2009** TIME: **11:34** MODE: **TRACE PLAYBACK**

10205910 BP1

MAIN PASS

DEPTH SCALE: **1:240** VERSION: **80214133R**

COMPANY PARAMOUNT RESOURCES LTD.

WELL PARAMOUNT ANADARKO BOVIE J-76

FIELD BOVIE LAKE PROVINCE NWT

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C-SP001-10205910-PARA-BP-J-76

Final Operational/Workover Report
Well Suspension
Paramount Anadarko Bovie J-76
Well ID #: 1931
UWI: 300J766020122452

On February 14, 2009 Paramount Resources Ltd. moved Concord Well Servicing rig # 84 onto Paramount Anadarko Bovie J-76 to perform a workover operation to suspend the well as per section 218 of the Canada Oil and Gas Drilling Regulations. Service rig operations were completed on February 22, 2009. A chronological summary of the operations follows.

14/2/2009: Moved on and rigged up service rig.

15/2/2009: Removed the wellhead and installed the BOP's. Pulled prong from plug at 2854 mKB. Attempted to pull plug body but lost pulling tools downhole. Attempted to recover tools without success.

16/2/2009: Recover pulling tools. Pulled plug body from well. Attempted to pull plug from 2872 mKB without success.

17/2/2009: Unset packer. Attempt to kill well without success. Wait on heavier kill fluid.

18/2/2009: Attempting to kill well with 5% KCl water, unsuccessful.

19/2/2009: Attempting to kill well with 5% KCl water, unsuccessful. Wait on heavier kill fluid.

20/2/2009: Kill well with 10% KCl water. Pulled tubing and recovered all downhole equipment. Ran and set a bridge plug at 2851 mKB. Pressure tested the bridge plug to 14MPa for 15 minutes.

21/2/2009: Re-ran tubing. Displaced well to inhibited fluid. Laid down tubing.

22/2/2009: Dump bailed 6 linear meters of cement onto the plug. Ran and set a bridge plug at 2715 mKB. Pressure tested the bridge plug to 145 MPa for 15 minutes. Dump bailed 6 linear meters of cement onto the bridge plug. Ran and set a bridge plug at 50 mKB. Rigged out the service rig.

National Energy Board | Office national de l'énergie

WELL TERMINATION RECORD

This record is submitted in compliance with Section 184(1) of the *Canada Oil and Gas Drilling Regulations* (SOR/79-82).

Well Name	Paramount Anadarko Bovie J-76				
Well ID	1931		Operator	Paramount Resources Ltd.	
Current Well Status	Suspended		Interest Identifier	Exploration Licence 369	
Location Unit	J	Section 76		Grid	60 deg 20' N, 122 deg 45' W
Coordinates (NAD 27)	*Surface*	Lat 60 ° 15 ' 44.4 "		Long	122 ° 59 ' 4.9 "
	Bottom Hole	Lat 60 ° 15 ' 44.4 "		Long	122 ° 59 ' 4.9 "
Region	NWT Mainland				
Target Formation	Slave Point		Field/Pool	/	
Strike Area:	Bovie		Total Depth	3353m KB	
Elevation KB/RT	417.0 m		Ground Level / Seafloor	411.0 m	
Spud Date	14-Feb-09		Rig Release Date	22-Feb-09	

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m^3)

PLUGGING PROGRAM

Type of Plug	Interval (m KB)	Felt	Depth (m KB)	Cement (m^3)
Select	-	Select		
Select	-	Select		
Select	-	Select		
Select	-	Select		
Select	-	Select		

Lost Circulation/Overpressure Zones

Equipment Left on Seafloor (Describe)

Provision for Re-entry (Describe and attach sketch)

CORE

Type	Interval (m KB)	Number of Plugs Cut	Core Length Recovered
Select	-		
Select	-		
Select	-		

Other Downhole Completion/Suspension: See attached downhole diagram

"I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate"

Signed	Dave Bl *Responsible Officer of Company*	Date	21/07/2009
		Operator	Paramount Resources Ltd.
Name	*Dave Block*	Telephone	(403) 206-3834 Ext
Job Title	Drilling Consultant	E-Mail	dave.block@paramountres.com

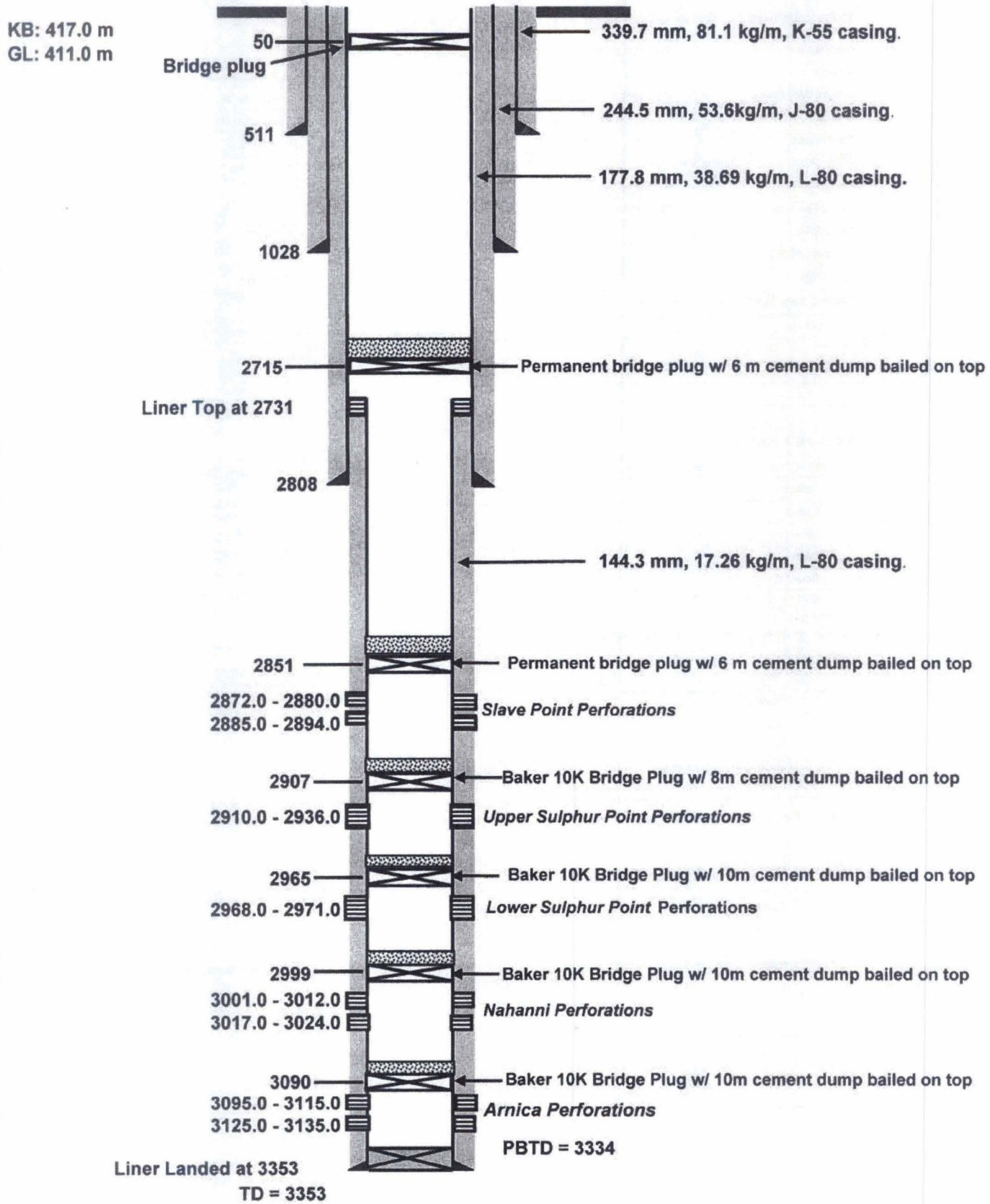
NEB USE ONLY

Signed	*Chief Conservation Officer*	WID	1931
Date	31 JUL 09	UWI	300J766020122452

Canada

PARAMOUNT ANADARKO BOVIE J-76

Wellbore Configuration (as of Feb 22, 2009)



WID	1931
Well Name	Paramount Anadarko Bovie J-76
Company	Paramount Resources Ltd.
UWI	300J766020122452
Data List	
1	Approval to Alter Condition of a Well approved 21 Jan 2009
2	Final Operational Workover Report dated 14 Feb to 22 Feb 2009
3	Well Termination Record and Wellbore Diagram approved 31 Jul 2009
Logs List	
1	Collar Log logged 20 Feb 2009
2	Collar Log logged 22 Feb 2009