

Daily Drilling &
Geological Reports

Jan 13/99. Mar 7/99

DAILY DRILLING REPORT

COMPANY

Activity at report time Tear out and move camp @ 08:00 HRS

DRILLING MUD PROPERTIES AT SHAKERSUCTION/PIT

Wt _____ Vis _____ WL _____ Gels _____ Solids _____ % PV _____ YP _____ pH _____
Oil _____ % Sand _____ Cake _____ PPMCL _____ PPMCs _____

BIT RECORD

CIRCULATION RECORD

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips		
					3. Rig Service		
					4. Deviation Surveys		
					5. Run in & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on		
					15. Nipple Up & Ten BOPs		
					16. Drilling Out		
					17. Lost Circ.		
					18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Tear out	24	
					21.		
					TOTAL	24	

COSTS	
DAILY	24.000
CUMULATIVE	2648.000
SUPERVISOR	Wilbert Callison

PARA-ORL RPT 141

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-07-24:00
Yr. Mo. Day TimeWELL NAME Paramount total Arrived LOCATION 0-15-100-30-123-02

OPERATIONS DETAIL:

(6)

Tear out Rig and Equipment - Clean all Tanks - Lay Down
 Drift - Wipe off Drilling Line thru Blocks - Drift and
 Wash Boiler - Clean out Shale Sloop and Send out to land
 For at Beaver River - Clean out 400 Bbl Slop Tank and Send
 to Ft. St. John - Get Well site Units ready for Rig Move.
 Order out Rig Move Trucks - Will Move Camp to Planning.

1- Green Box For MWD Tools

6- 1" x 8" Bars For MWD Drilling

1- White Box MWD Tools

WANT LIST: 2- 4 3/4" Hole Drilling Motors - 4 3/4"

2- 4 3/4" Non Magnetic Drill Collars

1- 4 3/4" Short Non Magnetic Drill Collar

WEATHER: Cloudy - Wind - N.W. 10 KPH - Cold - 22°C ROAD: Snow covered - Highway to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

Return to Paramount Base Camp -

11 x 4 1/2" Casing 2 - 8' x 40' Mats For Invert Tanks

9 x 3 1/2" Drill Pipe 1 - 13 1/2" x 50' x 11" - 5000 DSA Flange

2 x 3 1/2" Heavy Water Pipe 2 - 400 Bbl Tanks

PARA-DRL RPTZ.XLS

GENKY SANDERS

MALE 01-27-20

DAILY DRILLING REPORT

Yr - Mon - Day - Fri

Activity at report time Test out R's to Move

Wt	Vis	WL	Gels	Solids	%	FV	YP	pH
Oil	%	Sand	%	Cake	PPMCL		PPMCa	

[illegible][illegible]

at	at
at	at
at	at
at	at

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
					1. Drilling		
2. Trips							
3. Rig Service				1/4			
4. Deviated Surveys							
5. Ream & Cond. Hole							
6. Mix & Cond. Mud							
7. Circulation							
8. Rig Repair							
9. Run Casing & Cement							
10. Fishing							
11. Logging				Bridge-Flug	50/4		
12. Coring							
13. Formation Testing							
14. Waiting on:							

SUPERVISOR

Wilbert Callieco

TOTAL	24
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PARA-DRL RPT.xls

03/07/1999 12:23 14035453197

GERRY SANDERS

PAGE 02

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-03-06-24:00
Yr-Mon-Day-TimeWELL NAME Paramount/Attashead LOCATION 8-15-100-30-123-02**OPERATIONS DETAIL:**

Lay down Drill Pipe - Run in 8 Stands Heavy Water from down
Lay down Heavy Water Pipe - Rig out Lay down Machine Rig
in Computerized Wire Line - Run in Gauge Ring on Wire Line
Get down to 2334 m with Gauge Ring and Hang up in Casing - Not
able to Work Gauge Ring any deeper - Pull out Gauge Ring
and Ring was Jammed with Pieces of Rubber from Packers
Makeup Bridge Plug and Run in on Wire Line - Bridge Plug
Hang up at 2346 m - Not able to Work Plug any deeper - Set
Bridge Plug @ 2306 m - Pull out Wire Line Makeup Dump Baiter
and Fill with Cement - Run in and Drop 8 m Cement Plug on
Top of Bridge Plug - Rig out Wire Line - Nipple down and
Tear out BOP Stack - Install Wellhead - Test out Rig.

Rig Released at - 1999-03-06 - 23:59 HRS.

WANT LIST:WEATHER: Cloud-Sunny-Breeze-20°C ROAD: Heavy Sand on Highway & Lease Road**IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)**

PARA-DRILL RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-05-24:00
Gr-Mon-Day-Time

WELL NAME Paramount total Areahead LOCATION 0-15-60-80-123-82

OPERATIONS DETAIL:

Location Weather Ford Operator with Free Point and Backoff
Tools to Arrive - Makeup Free Point into Computer log wireline
Run Free Point Tools - Found Pipe Free @ 2733 - Stub @ 2738
Pull out Free Point - Makeup Run in w/ 970 Grain Stone Shot - Did
not Backoff Pipe - Pull out - Run in with 1400 lb String Shot -
Got back off - Pull out and lay down wireline - Tool Pull out
and lay down 1 1/2 Hexi Water Drill Pipe - Rig in lay down
Machine - Laying down drill Pipe at Mid site

Since Mid site - All Pipe layed down - Rig to and Run in
Gauge Ring on Wireline @ 2710 ft
Running Gauge Ring Prior to Running Wireline Bridge Plug
Left 30 ft 8 mm - Grade Pipe in Hole

WANT LIST:

WEATHER: Clear-Cold-Wind-Niskall -20°C ROAD: Snowy on Highway to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

DAILY DRILLING REPORT

99-03-04-
YF-MON-PAV-TIME

WELL NAME Parmauchette/Arrowhead LOCATION 0-15-60-30-123-02
Day 47 Depth ✓ Metres last 24 hr ✓ Rotating hrs ✓
Activity at report time Wait on Weatherford Fisherman

Wt	Vis	WL	Gels	Solids	%	PV	YP	pH
Oil	Sagd	%	Cake	PPMCL			PPMCs	

[illegible][illegible]

at	at	CRU/32E Inhibitor-410 litres
at	at	1500 litres Diesel Fuel
at	at	
at	at	

TOOL	ID IN	OD IN	LENGTH IN	WEIGHT LBS	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips	1 1/4	
					3. Rig Service	1/2	
					4. Deviated Surveys		
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation	2.0	
					8. Rig Repair		
					9. <i>Wait on Backoff Tools</i>	6 1/4	
					10. Fishing		
					11. Logging <i>Free Point to Backoff</i>	10	
					12. Coring		
					13. Formation Testing		
					14. Waiting on		
					15. Nipple Up & Test BOPB		
					16. Drilling Out		
COSTS							

DAILY	49000
CUMULATIVE	2508500

Wilbert Caliben

PARA-DRL RPT. 16

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-04-24:00
Yr - Mon - Day - TimeWELL NAME Paraguantal Attached LOCATION 0-15-60-30-123-02

OPERATIONS DETAIL:

Warten Weatherford Operator to arrive w/ Free Point Tools and String Shot Equipment - Rig in Free Point on Computalog Wireline - Run in to Find Free Point - Found Free Point at 3000M - Pipe was stuck @ 3014M - Calculated Cement Top was to have been @ 3115M - Made up String Shot - Ran in and Backed off Pipe @ 3004M - Pull out of Stuck Pipe - Lay down String Shot Tools and Wireline - Pick up Kelly - Break Circ - Displace Hole and Pasing to Inhibited Water - Pull out 3 Stds & ASingle Pipe - Rig in Cementers - Run 3 Stnds Pipe back in Hole - Rig in New Set Cementers - Run Cement Abandoned Plug #2 - 4.6 tonnes thermal cement - 3.49m³ cement slurry which would be 180M Plug length in 150mm Hole - Displaced with 9.6m³ water - Break off Cement trap lines - Pull out 8 Stnds Pipe or 3250M Pipe - Pipe Dry - Rig in Wireline and Run in to Log Plug Top - Found Cement Top @ 2780M - Rig in Cementers - Not able to Circ - Not able to Move Pipe - With Pipe and not Moving - Phone Weatherford Man to come back in from Ft Nelson.

Warten Weatherford Operator @ 07100Hrs.

WANT LIST:

WEATHER: Cloudy - Cold - Wind - No 20kph - 15°C ROAD: Snow Covered on Highway to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

FOR 24 HR PERIOD ENDING 92-03-03-24:00
Yr-Mon-Day-Time

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-03-24:00
Yr - Mo - Day - TimeWELL NAME Paramount total Arkhead LOCATION 0-15-60-30-123-02

OPERATIONS DETAIL:

Lay down and Move Drill Collars - Measure Howl Water Drill
Pipe - Pickup and Rack in Derrick - Run in Hole Open End -
Pickup Kelly - Break Circ @ 3292m - Circ - Clean to Bottom - Hold
Safety Meeting w/ Newscop Cementers - Rig up Bit Plug #1 - 3301/31350
Displace Plug w/ Invert - Break off Cementing Swadge - Pull Pipe
out of Hole - Pulled 2 Stands out of Hole - Pulling Very Tight -
Watch Pipe - Pulled out 1 Single & Broke off - Pickup Kelly -
Unable to Circ - Unable to Pull or Move Pipe - Phone Weatherford
in Ft St John to get out Charge to Spool Pipe - Unable to Fly
out Explosives - Will have to get Charge out from Grande
Prairie through Ft St John by Pickup - Wait on Weatherford
Fisherman to Arrive

Since Midnite - Weatherford Fisherman Arrived @ 2:30 AM
Rig Weatherford Electrician's Panel into Computer Log Wire
Line Truck - Rig in Free Point Tools & Wireline, Sheaves -
Run in with Free Point Locator - Tool quit working - Pull
out & Lay Down - Run in with another Free Point Tool -
Running Free Point Locator @ 07:00 Hrs.

WANT LIST:

WEATHER: Clear - Cold - Wind - 20kph - N - 18°C ROAD: Snow on Highway to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

FOR 24 HR PERIOD ENDING 99-03-02-24:00
Yr - Mo - Day - Time

P.32

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-03-03-21:00
17-Mar-03-11:00WELL NAME Paramount at Ansohead LOCATION 15-66-30-123-02**OPERATIONS DETAIL:**

Finish Reverse Circ out Test Fluid and invert Circulation From Drill Pipe - Recovered 3rd 1/2" Pass Filtered Salt Water testing @ 142,000 PPM Salinity - Rig out Reverse Circ lines - Pump Weight Material Pill - Pull out of Hole - Recover Recorder and Read Pressures - Break down and lay down Test Tools - Had Plugged Drill Collar between Reverse from Pump out Sub plus Top Recorder Carrier - Pump out Sub and Circulator Sub - Total of 11-12 m Tool Plugged with Formation Material - Make up Bit and BHA - Run in for Clean out Trip - Load out Test Tools and Release Tester - Run in - Break Circ - Clean out to Bottom - Circ to Card and Mud and Clean Hole - Pushed Packer Blocks to Bottom - Pump Weight Material Pill - Pull out of Hole - Lay down Drill Collars -

Ordered out Naisco Cement and Cement along with Computalog Plug Loggers - While Running Cement Abandonment Plugs

WANT LIST:WEATHER: Clear - Cool - Wind - 20 km/h - 14°C ROAD: Good on Highway - Fair to Location**IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)**

PARA-DRL_RPT2.xls

DAILY DRILLING REPORT

WELL NAME Permian total Assembly LOCATION 0-15-60-30-123-02

Rotating hrs

Make up BHA to Run in for Clean out Trip

Wt	Vis	WL	Gels	Solids	%	PV	YP	pH
Oil	%	%	Cake	PPMCL			PPMCo	
	Sand							

[illegible][illegible]

at	m	at	m	Barite - 2590X
at	m	at	m	
at	m	at	m	
at	m	at	m	

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips	8 1/4	
					3. Rig Service	1/2	
					4. Deviation Surveys		
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing	13 1/2	
					14. Waiting on:		

Wilbert Callison

OPERATION	TODAY	CUM.
1. Drilling		
2. Trips	8 1/4	
3. Rig Service	1/2	
4. Deviation Surveys		
5. Room & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing	13 1/2	
14. Waiting on:		
15. Nipple Up & Test BOP's		
16. Drilling Out		
17. Wait on Orders	1 1/4	
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21. Slope Cuthroat	1/2	
TOTAL	24	

PARADISE RPT.X15

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-01-24:00
Fr. Mon. Day Time

WELL NAME Paramount at Arrowhead LOCATION 0-15-100-30-122-02

OPERATIONS DETAIL:

12

Since
Midnight

Break Down DST #2 - Recover Recorders - Read Charts and
get Pressures - Change Packer Rubbers - Both Rubbers were
1 ft Down Hole - Make-up DST Tools changing Interval from
19m to 11m - Run in with Tools For DST #3 - Measure in Hole
Position Packers - Headup Test String - Pump up and Set Packers
Open Tool - Good Air Blow building to String at Bottom of Pail
after 4 mins holding at String Free Heat of Fluid in the Flow
Shut in For packing - Went to Open Tool and did not get any
Blow thru Hose - Close and Re-open Tool 3 times and not able
to get Tool to Open - Shut in Tools - Pull hose and Pull out of
Hole - Hit Fluid at 1700m Pipe 1 ft in Hole - Had put 870m
Tubest Cushion in For Test - Had increase of 830m Fluid in
Pipe - Drop Box & Reverse Circ Out - Recovered 3.18m³ Fluid
above Cushion amount - Mostly Very Classified Salt
Water - Salinity of Water Tests @ 142,000 PPM
Make-up Bit & BHA to Run in For Clean out Trip.

WANT LIST:

WEATHER: Overcast - Wind - 20km/h N - Cool - 14°C ROAD: Good on Highway - Fair to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

FIELD REPORT

```

TEST DATA      TEST No. 3      LUS. TEST No. 3
FORMATION TESTED      T.D. 3301 m
INTERVAL TESTED: From 3033 m to 3044 m
TOTAL INTERVAL TESTED 11 m
TEST TYPE Inflow Straddle RESET: YES ☐ NO ☒
CUSHION: YES ☒ NO ☐ TYPE Invert AMOUNT 870 m
STARTED IN HOLE @ 06:30 HRS. OPENED TOOL 14:20 HRS.
DATE & TIME OUT OF HOLE 1992-03-01 @ 00:00 HRS.
TEST TIMES:
PRE-FLOW 10 MIN. INITIAL SHUT-IN 60 MIN.
SECOND FLOW MIN. SECOND SHUT-IN MIN.
FINAL FLOW 60 MIN. FINAL SHUT-IN 120 MIN.
PRE-FLOW BLOW DESCRIPTION: SAB in 4 min. steady
throughout. NGTS.

```

FINAL FLOW BLOW DESCRIPTION: Opened tool had no flow. cycled tool several times still no flow.

MECHANICAL RECORDERS

No. 20657	INSIDE ☐ OUTSIDE ☒	No. 13085	INSIDE ☒ OUTSIDE ☐	No. 22561	INSIDE ☒ OUTSIDE ☐
DEPTH 3035	m	DEPTH 3024	m	DEPTH 3045	m
CLOCK 23403		CLOCK 29242		CLOCK 20977	
REC. SEC. # 12512		REC. SEC. # 11704		REC. SEC. # 69377	
No. ☐ INSIDE ☐ OUTSIDE ☐		No. ☐ INSIDE ☐ OUTSIDE ☐		No. ☐ INSIDE ☐ OUTSIDE ☐	
DEPTH	m	DEPTH	m	DEPTH	m
CLOCK		CLOCK		CLOCK	
REC. SEC. #		REC. SEC. #		REC. SEC. #	

ELECTRONIC RECORDERS

No.	INSIDE ☐	No.	INSIDE ☒	No.	INSIDE ☐
R62	OUTSIDE ☒	S58	OUTSIDE ☐		OUTSIDE ☐
DEPTH	3035	DEPTH	3019	DEPTH	
TEMP.	148.8	TEMP.	149.0	TEMP.	
FILE p015c1.dec		FILE p015cr.dec		FILE	

FIELD READINGS

REC. No. R62		REC. No. 20657	
DEFLECTION	PRESSURE kPa	DEFLECTION	PRESSURE kPa
1	31822.30	46.5	31748
2	19781.08	28.5	19641
3	27463.04	35.5	24484
4	30745.28	44.5	30710
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14	31443.53	46.5	31748

REMARKS

SEQUENCE OF TEST EVENTS:

All measurements are field estimates. Salt water has lots of gas trapped with it under fluid cushion. Very noticeable break between cushion and produced water. One drill collar was plugged completely with sand. top recorder carrier, pressure activated pump out sub and cross-over sub all plugged. Both packers stripped. Recorder R62 did not show full shut-in, but showed pre-flow and part of the shut in.

GENERAL INFORMATION

COMPANY Paramount Resources Ltd.
CONTACT IN CALGARY
CONTACT'S PHONE FAX
WELL NAME Paramount Berkley Arrowhead 0-15
LOCATION 3000156030123000
K.B. 387 m GROUND ELEV. 380.5 m
COMPANY REP Wilbert Callihoo
TESTER Ken Willis
JAR No 234 HYDRAULIC TOOL No 138
UNIT# 960201 PUMP No 464
CONTRACTOR Precision RIG No 507
TICKET No BQB644 DATE 1999-03-01

MUD & HOLE DATA

HOLE CONDITION ☒ TEST TIME:
 EXCELLENT ☐ GOOD ☐ FAIR ☒ POOR ☐
 WAS HOLE CONDITIONED PRIOR TO TEST: YES ☐ NO ☒
 HOLE DEVIATION: YES ☒ NO ☐ AMOUNT 3 DEGREES
 CALIPER LOG RUN PRIOR TO TEST: YES ☒ NO ☐
 CALIPERED HOLE SIZE ☒ TEST DEPTH 156 MAX. mm
 MUD TYPE Invert.
 WEIGHT 1070 kg/m³ VISCOSITY 54 WATER LOSS
 FILTER CAKE mm
 DRILL PIPE SIZE: O.D. 89 mm I.D. 70 mm WEIGHT 23.06 kg/m
 DRILL COLLARS: O.D. 119 mm I.D. 61 mm RUN 304.08 m
 MAIN HOLE OR CASING SIZE 156 mm
 BOTTOM HOLE OR CHOKE SIZE 25.4 mm
 PACKER RUBBER SIZE: DIAM. IN mm 136 LENGTH IN m 1.68
 RUBBER LEFT IN HOLE: YES ☐ NO ☒
 TOP PACKER: SERIAL No. CONDITION
 BTM PACKER: SERIAL No. CONDITION

GAS MEASUREMENTS

MEASURED WITH:

SIDE STATIC ☐ CRITICAL FLOW PROVER ☐
FLOOR MANIFOLD ☒ ORIFICE WELL TESTER ☐
CLOSED CHAMBER ☐ OTHER _____

RISE SIZE

[illegible]

RECOVERY

RECOVERY VERIFICATION SIGNATURE:

TOTAL FLUID RECOVERED	1700	m	CONSISTING OF:
870 m OF	invert. quahon		SALINITY
830 m OF	Gessified salt water		SALINITY 142000
m OF			SALINITY
m OF			SALINITY

BTM. H. SAMPLER #	NSN/NSN	SENT TO AGAT
GAS BOMB #		SENT TO
No. OF FLUID SAMPLES TAKEN	8	SENT TO AGAT

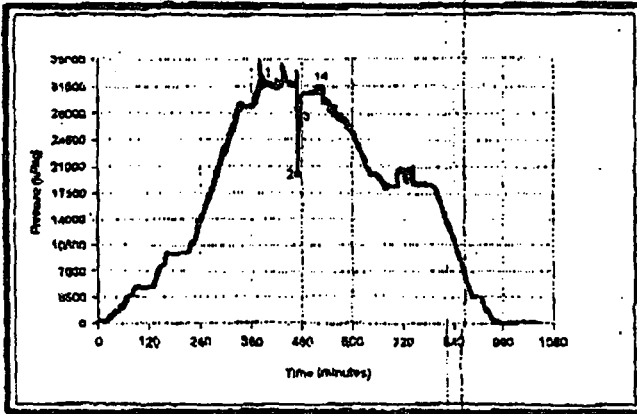


Paramount Berkley Arrowhead 0-15
3000156030123000
DST# 3

Baker Oil Tools

Formation:
Interval - from: 3033 to: 3044 m

Recorder# R62 at 3036 m



Maximum Btm Hole Temperature @ FSI: 148.8 C

		Pressure (kPag)	Time (min)	Extrapolated Pressure (kPag)
1	Initial Hydrostatic	31822		
2	Start of 1st Flow	19781		
3	End of 1st Flow	27463	4.0	
4	End of 1st Shut-in	30745	39.5	
14	Final Hydrostatic	31444		

Liquid Recovery of 1700.00 m

Recovery	Description	Salinity
870.00 m	invert cushion	
830.00 m	Gassified salt water	142000

Test Date: 1999-03-01
Test Type: Inflate Straddle
Tester Name: Ken Willis
Cushion Type: Invert
Cushion Amount: 870 m
Drill Pipe O.D.: 89.00 mm
Drill Collar I.D.: 61.00 mm
Drill Collar Length: 304.08 m
Hole Size: 156.00 mm

Blow Description:

PREFLOW - SAB in 4 min. steady throughout.
NGTS. FINAL FLOW - Opened tool had no flow.
cycled tool several times still no flow.

Remarks:

All measurements are field estimates. Salt water has lots of gas trapped with it under fluid cushion. Very noticeable break between cushion and produced water. One drill collar was plugged completely with sand. top recorder carrier, pressure activated pump out sub and cross-over sub all plugged. Both packers stripped. Recorder R62 did not show full shut-in, but showed pre-flow and part of the shut in.

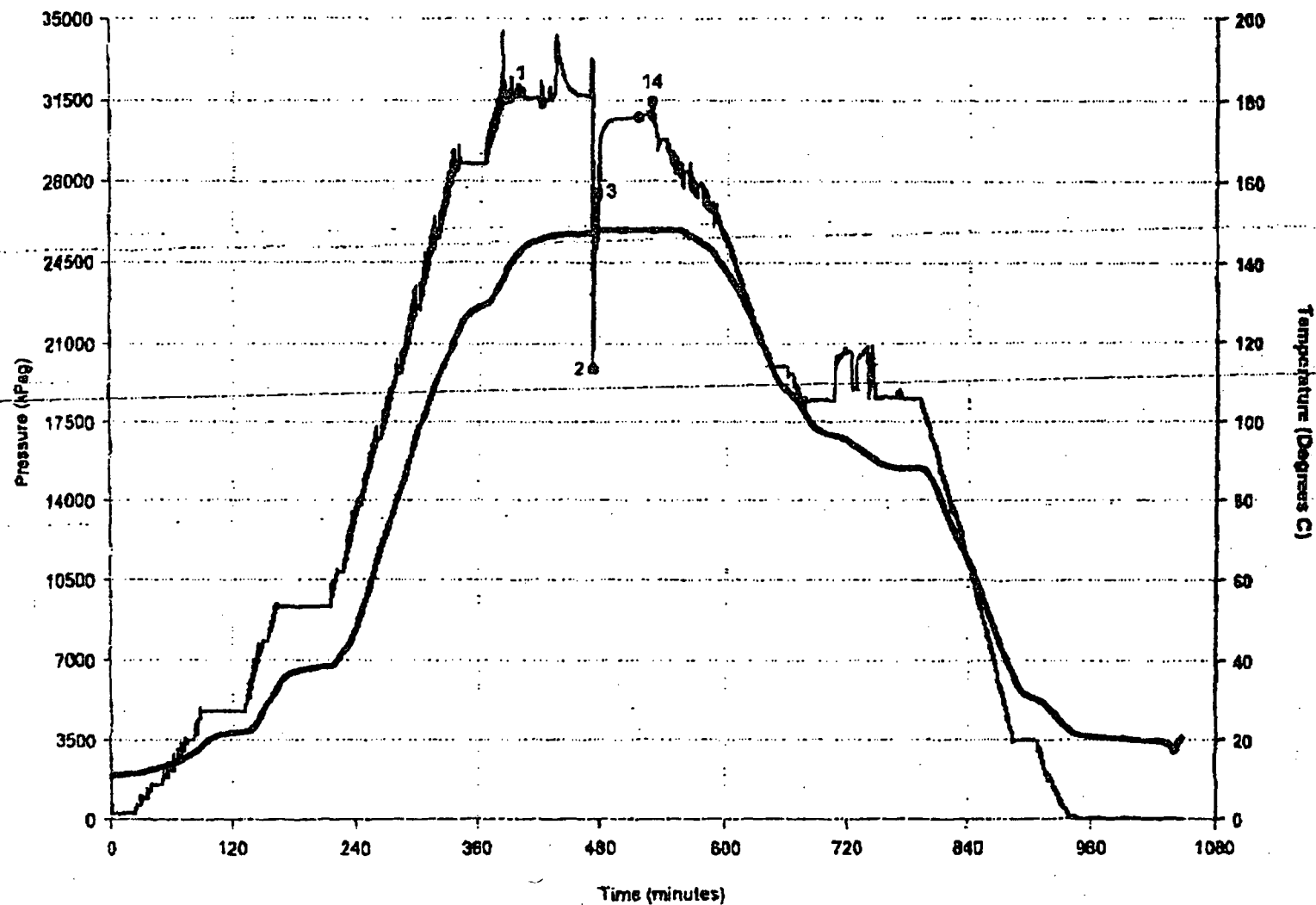
Baker Oil Tools Drill Stem Testing

Baker Oil Tools Drill Stem Testing

Paramount Berkey Arrowhead 0-15
 9000158030123000
 DST #: 3
 Recorder: R62

Pressure (kPag) at Critical Points:

1: 31122 4: 30745
 2: 19781 14: 31444
 3: 27463



140303033114 00:10 555171

GENCO SERVICES

MAR-02-1999 08:36

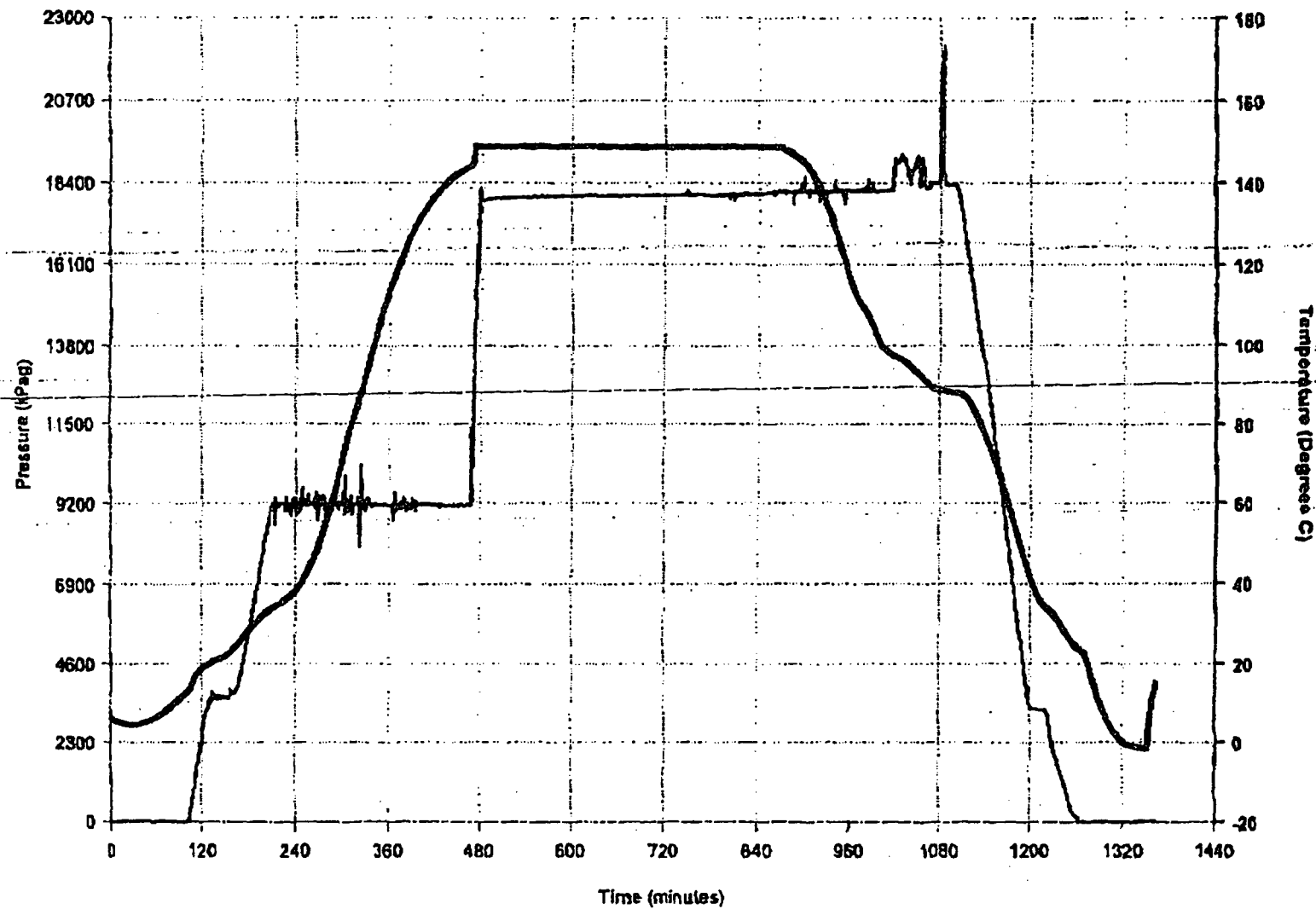
403 266 6032

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Baker Oil Tools Drill Stem Testing

Paramount Berkley Arrowhead D-15
3000156030123000
DST #: 3
Recorder: S58



PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-27-24:00
Yr-Mo-Day-time

WELL NAME Paramount Arrowhead LOCATION 0-5-60-30-123-02
 Day 42 Depth 3901 Meters last 24 hr ✓ Rotating hrs ✓
 Activity at report time Make up Rubber in DST #2

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1070 Vls 54 WL 15.5 Gels 2.5 Solids 16.6 % PV 29 YP 1.44 pH —
 Oil 89.7 % Sand 0.03 % Cake 1.1 PPMCL 13333 PPMCa 66666

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH CUT m	CUM. DEPTH m	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM						T	B	C
<u>RR#7</u>	<u>150</u>	<u>Reed-Elm 5H</u>	<u>01M9771</u>	<u>2-3</u>	<u>60-70</u>	<u>1.1</u>	<u>1.1</u>	<u>1.1</u>	<u>1.1</u>	<u>1.1</u>	<u>3</u>	<u>2</u>	<u>17</u>

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. L/Pa
	1	2	3		GPM	LINER	m/min	DP	DC			
RR#7	15.9	15.9	15.9	203	100	117	162	57	86	2.1		8500

DEVIATION SURVEYS

• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m

MUD & CHEMICALS ADDED

• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m
• at <u>—</u> m	• at <u>—</u> m

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg
<u>1-Bit</u>	<u>—</u>	<u>150</u>	<u>2.0</u>	<u>—</u>
<u>1-Bit Sub</u>	<u>—</u>	<u>120</u>	<u>2.8</u>	<u>—</u>
<u>21-Drill Collar</u>	<u>—</u>	<u>120</u>	<u>194.16</u>	<u>—</u>
<u>12-Heavy Wdr DP</u>	<u>—</u>	<u>89</u>	<u>118.39</u>	<u>—</u>
<u>104-Drill Pipe</u>	<u>—</u>	<u>89</u>	<u>208.44</u>	<u>—</u>
<u>1-Kelly</u>	<u>—</u>	<u>89</u>	<u>2.30</u>	<u>—</u>

TIME ANALYSIS

OPERATION	TODAY	CUM.
1 Drilling		
2 Trips	<u>11 1/4</u>	
3 Rig Service	<u>1/2</u>	
4 Deviation Surveys		
5 Clean & Cond. Hole <u>Clean Rubber</u>	<u>2</u>	
6 Mix & Cond. Mud		
7 Circulation	<u>3 3/4</u>	
8 Rig Repair <u>Master Clutch</u>	<u>1/2</u>	
9 Run Casing & Cement		
10 Fishing		
11 Logging		
12 Coring		
13 Formation Testing	<u>5 1/2</u>	
14 Waiting on:		
15 Nipple Up & Test BOP		
16 Drilling Out		
17 Lost Circ.		
18 Laying Down DP & BOP		
19 Plug & Abandon		
20 Rig up - Tear out		
21 Slip out <u>Drill Pipe</u>	<u>1/2</u>	
TOTAL	<u>24</u>	

COSTS

DAILY 30,100
 CUMULATIVE 2290,000

SUPERVISOR

Wilbert Callihan

PARAMOUNT RPT.xls

02/28/1999 10:37 14030433147

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-27-24:00
Fr. Mon. Day - TimeWELL NAME Paramount Ardenhead LOCATION 0-15-40-20-123-02

OPERATIONS DETAIL:

Pullout Test Tools - Had to Pull out slow to Allow Hole Fill Fluid to get by Packers and Drag down to Fill Hole - Hit Fluid at 76 Stands out and had Filled Pipe with Invert Cushion at 81 Stands out - Gained 5 Stands - 14201 - 46m Fluid on Test No visible Signs of Water in Recovery in Invert Fluid - Invert had thickened up in Cushion which is an indication of water contamination - Pulled out of Hole after Reverse Circ Fluid out of Pipe - Recover Recorder - 2 Electronic Recorders did not Work due to High Bottom Hole Temperature (150°C) Both Mechanical Recorders were OK and were able to get Pressures of FC Charts - Tools also stopped steps of Plugging - Both Packer Rubbers came off and were left in hole - Broke down and layed down Test Tools - Faxed Test Results and Pressures to Calgary Made up Re-Run Bit and Borehole - Hit Packer Rubber @ 3245m Pickup Kelly - Break Core - Clean out to Bottom @ 3301m - Had only Packer Rubbers and Not Wire Bond Core - Left down hole solids able to Clean out with no Problems - Core - Work Pipe - Card Mud and Hole For 25Tth down same Zone - Ordered out 2H-Temp Electronic Recorders from Grande Prairie and also make Arguments and Inhibitor For Safety Boss on same Trip Core till 22:00hrs - Pump out Material Fill - Pull out of Hole

Since Midnite - Got out of Hole - Made up Test Tools with 19m vs 25m Interval - Installed Higher Temp Electronic Recorders Run in Hole - Fill Pipe with Invert Cushion

WANT LIST:

WEATHER: Clear - Calm - Cold - -22°CROAD: Good on Highway - Fair to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-ORI_RPT2.xls

FOR 24 HR PERIOD ENDING 99-02-26-2400
 Yr - Mon - Day - Time

WELL NAME Program at a1 Arrowhead LOCATION D-1-60-20-122-02
Day 41 Depth 3301 Meter last 24 hr ✓ Rotating hrs 1
Activity at report time Break down tool joints @ 07:00 Hrs

Wt	Vis	WL	Gals	Soils	%	PV	YP	pH
Oil	%	%	Cake	PPMCL			PPMCa	
	Sagd							

[illegible][illegible]

_____	•	at _____	_____	•	at _____	_____
_____	•	at _____	_____	•	at _____	_____
_____	•	at _____	_____	•	at _____	_____
_____	•	at _____	_____	•	at _____	_____

[illegible]

TOOL	ID	OD	LENGTH	WEIGHT
------	----	----	--------	--------

OPERATION	TODAY	CUM.
Drilling		

[illegible]

PARA ORL RPT 109

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR A HR PERIOD ENDING 99-03-26-24:00
Yr-Mon-Day-TimeWELL NAME Paramount at Arrowhead LOCATION 0-1-60-30-123-02

OPERATIONS DETAIL:

Run to Hole w/ Inflate Standby Test Tools - Measure in Hole - Work Packers down last 5m to setting depth - Had to Pick up and work down Test Tools - Position Packers over Test Interval - Pump up and Set Packers - Open Tool - Had very weak Air Blow - Shut in Tool after 10 min Pre Flow - Leave Shut in for 10 min - Re-open tool - Still have very weak Air Blow - Have gas bubbles on Sur Face of Water in Tail and increased to Bubbles at 2' Below Sur Face of Water by End of 90 min Valve open - Shut in Tool for 270 min (3 Times Valve open) Deflate Packers - Full hose - Break down Test Head and haul down - Pull out of Hole - First 5 Stands swabbed Fluid out of Hole - Took flow check - Well stable - Pulled 5 more stands and fluid starting stable in Hole - Fluid not swabbing but also not dropping in Hole - Pulled 18 Stands to get up into casing - Close PDS Rams and Pump through Kill Line to push Fluid past packer Rubbers and down Hole - Hole took correct amount of Fluid for Pipe Pulled out of Hole - Casing Pulling out and stopped every 12-15 Stands to Pump Fluid past Packer Rubbers - Had to Pull Pipe very slow to keep from swabbing Fluid out of Hole - After Pulling 54 Stands Mud in Hole started to go past Rubbers and Hole was Taking Correct Amount of Fluid - Pull Pipe slow till midnite.

Since Midnite - Got out of Hole - Reversed Casing to Pump out Invert Cushion @ 76 Stand out - No Gas Bubble Followed Packer out of Hole - Break down Test Tools - Recapped and Read Recorder for Results to Calgary - Electronics Recorders Failed due to High

WANT LIST: Temperature - Tool Partially Dugged - Lost Both Packer Rubbers down Hole -

WEATHER: Clear-Snow-Wind-N-10km/h-13°DAD: Good on Highway - Rough to locate

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEM (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-03-26-24:00
Yr-Mo-Day-TimeWELL NAME: Paramount total Area ahead LOCATION: 015-60-30-122-02

OPERATIONS DETAIL:

Ran to Hole w/ In Flate. Set Middle Test Tools - Measure in Hole - Work Packers down last 10m to Setting Depth - Had to Pick up and work down Test Tools - Position Packers over Test Interval - Pump up and Set Packers - Open Tool - Had very weak Air Blow - Shut in Tool after 10 min. Pk Flaw - Leave Shut in for 10 min. - Back on Tool - Still have very weak Air Blow - Has a lot of bubbles in Sur Face of Water in Pit and increased to Bubbles at "Below Sur Face of Water by End of 90 min. Valve Recd - Shut in Tool for 27 min. (3 Times Valve open) Deflate Packers - Full loose - Break down Test Head and lay down - Pull out of Hole - First 5 Stands swabbed Fluid out of Hole - Took Flow Check - Well Stable - Pulled 5 more stands and Fluid starting stable in Hole - Fluid not Swabbing but also not dropping in Hole - Pulled 18 Stands to get up into Casing - Used 2 1/2" Rams and Pump through Kill line to push Fluid past Packers - Rubbers and down Hole - Hole took correct Amount of Fluid for Pipe Pulled out of Hole - Continuing Pulling out and Stopped every 12-15 Stands to Pump Fluid past Packers - Rubbers - Had to Pull Pipe very slow to keep from Swabbing Fluid out of Hole - After Pulling 50 Stands Mud in Hole started to go past Rubbers and Hole was Taking correct Amount of Fluid - Pull Pipe Slow till Midnite.

Since Midnite - Got out of Hole - Reversed C/L to Pump out Invert Cushion @ 90 Stands out of No Gas Bubble Followed Packers out of Hole - Broke down Test Tools - Recovered and Read Recorder for Results to Calgary - Also some Recorders Failed due to High

WANT LIST: Temperature - Tool Partially Jugged - Lost Both Packers - Rubbers down Hole -

WEATHER: Clear-Snow-Wind North - 15°

ROAD: Good on Highway - Rough to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ETC. (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-25-24:00
Yr-Mon-Day-TimeWELL NAME Paramount at Arrowhead LOCATION 0-15-60-30-122-02OPERATIONS DETAIL: 18

Finish Running logs with Baker Atlas - Tear out and lay down Logging Tools - Send logs to Calgary with Comstar System
Wait on vendors - Call Tester & wait on Tester to arrive from Ft. St. John - Pick up - Make up and Run in Test Tools
Filling 900M Pipe with Invert for Test Cushion

Since didn't have Run in with Test Tools - Work Tools down to Test Zone for last 45M - Head up Test Tools - Pump up Packers - Set Packers - Open Tool @ 06:24 Hrs. initial Open for 10 mins till 06:34 - Close Tool - Had very weak Air Blow on initial Open - Hose moving water just below surface. Have 900M Invert Cushion in Pipe to balance Hydrostatic difference between Formation and Pipe - Will open Tool again @ 07:34 Hrs.

WANT LIST:

WEATHER: Overcast - Wind 15 km/h S-E - Cool 70°C ROAD: Good on Highway - Fair to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARAM-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-25-24:00
Yr - Mo - Day - Time

WELL NAME Paramount at Arrowhead LOCATION 8-15-60-30-128-02
 Day 28 Depth 3101 Metres last 24 hr 56 Rotating hrs 17 1/2
 Activity at report time Run Logs in Hole with Baker Atlas

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1065 Vis 50 WL 13 Gels 2.5/1.5 Solids 8.1 % PV 19 YP 3.35 PH
 Oil 9.3 % Sand 10.4 % Cake 1 FPMCL 191666 PPMCa 123233

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
9	152	HC-57820	X74YE	8-10	80	3101	56	199	17 1/2	56 3/4		3	6	10

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP		ANN. VEL. m/min	JET VEL. m/min	DC	HHP	SURF. PRESS. kPa
	1	2	3		SPM	LINE					
9	11.1	11.1	11.1	203	11.0	114	167	57	86	31	9100

DEVIATION SURVEYS

3 3/4	at	3300 m		at	m
	at	m		at	m
	at	m		at	m
	at	m		at	m

MUD & CHEMICALS ADDED

Turnout 5m ³
Bentonite - 27 Sak

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kN
1 - Bit		152	2.0	
1 - Bit Sub		120	.78	
21 - Drill Collars		120	194.16	
12 - Heavy Weight Drill Pipe			110.30	
3/2 - Drill Pipe			288.44	
1 - Kelly		1	7.30	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	17 1/2	
2. Trips	2 1/2	
3. Rig Service	1/2	
4. Deviation Surveys		
5. Run in & Casing Hole		
6. Mix & Cond. Mud		
7. Circulation	3 1/2	
8. Rig Repair		
9. Rig Casing & Cement		
10. Fishing		
11. Logging		
12. Casing		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPs		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Test out		
21.		
TOTAL	24	

COSTS

DAILY 27620
 CUMMULATIVE 3112000

SUPERVISOR

Wilbert Callibao

PARAMOUNT RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-23-2400
Yr-Mon-Day-TimeWELL NAME Paramount total Ahead LOCATION 0-15-60-30-113-02

OPERATIONS DETAIL:

Drill Ahead carrying 7-8" dog Bit Weight-Increased Bit
Weight to 10 m dog From 3288 to T.D. @ 3301M - Drilled past
3300M before getting to logging depth - Circ. Fur 1 Y.H.S. - Make
18 Stand Wiper Trip - Hole bit - Circ. Wash Pipe Fur 2 H.S. -
Drop Survey - Pump Wt Material Fill - Pull out to Run Logs

Since Midnite - Have Pulled out of Hole - Measured out -
Board Tally deeper - Deviation out to 3 3/4" - Rigged up
Baker logging Tools - Running logging Tools to hole

Meas Tally - 3292.33
Board Tally - 3293.70

WANT LIST:

WEATHER: Clear - Calm - Cool - 13° CROAD: Good on Highway - Fair to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-24-14:00
Yr-Mo-Day-TimeWELL NAME Paramount total Burnhead LOCATION 0-15-40-30-123-02

OPERATIONS DETAIL:

Finish Pulling out of Hole to Run Logs in Hole - Rig in Baker Atlas Logging Tools - Run Logging Tools in Hole - Tools went in to Bottom with no Problems - Had Problems with density Tool not working - Not able to Repair Tool on location - Ran Beat of Logs - Brought to Replacement Density Tool and Running Log - Logging all Day - No Hole Problems

Grace Midnite - Finished Running Logs and Logging Tools Left Location @ 04:00 Hrs - Truck going to P-57 location Precision Rig #329

WANT LIST:

WEATHER: Overcast - Cold - Cool - 10°CROAD: Good on Hiway - Fair to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRI_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-23-24:00
Yr - Mon - Day - TimeWELL NAME Paramount Resource LOCATION 0-5-60°30'N-122°02'W
Day 37 Depth 3245 Metres last 24 hr 72 Rotating hrs 10 3/4
Activity at report time Drill 15mm hole @ 3200 @ 07:00 Hrs.

DRILLING MUD PROPERTIES AND SHAKERS/SUCTION/PIT

Wt 1075 Vls 47 WL 12.8 Gels 2.1 Solids 8.4 % FV 18 YP 2.87 pH
Oil 93.2 % Sand 0.035 % Clay 1 PPMCL 189653 PPMCa 122586

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT WT	RPM	DEPTH m	DELTD TODAY	CUM m DRLD	Rot hrs TODAY	CUM Rot hr	m/hr	Dull Cond.		
												T	B	G
9	156	HC-STR 30	V744E	8-10	80	72	143	20 3/4	39 1/4	3.64				

CIRCULATION RECORD

BIT NO.	JET - mm			STROKE	SPM	LINER	MIN	ANN. VEL		JET VEL	HHP	SURF. PRESS	
	1	2	3					DE	DC			LP	LP
9	11.1	11.1	11.1	203	110	11.9	7	5	86	31		9000	

DEVIATION SURVEYS

1	at	3168	m		at		m
2	at	3225	m		at		m
	at		m		at		m
	at		m		at		m

MUD & CHEMICALS ADDED

lime - 115kg	

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH mm		OPERATION	TODAY	CUM.
			m	in			
1 - Bit		156	1.2		1. Drilling	10 3/4	
1 - Bit Sub		119	1.8		2. Trips		
21 - Drill Collars		119	144		3. Rig Service	1/2	
12 - Heavyweight		89	110		4. Deviation Surveys	2	
301 - Drill Pipe		89	2990		5. Wash & Cond. Hole		
1 - Kelly		89	9.3		6. Mix & Cond. Mud		
					7. Circulation	1/2	
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		

COSTS

DAILY 27921
CUMULATIVE 2084350

SUPERVISOR

Willbert Callipao

15. Rattle Up & Test BOPs
16. Drilling Out
17. Test Circ.
18. Laying Down DP & BOP's
19. Rig & Abandon
20. Rig up - Tear out
21. BOP Drill

TOTAL 24

PARAMOUNT RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-23-24:00
Yr-Mon-Day-Time

WELL NAME Paramount at Arrowhead LOCATION 0-25-60-30-123-02

OPERATIONS DETAIL:

Drill Ahead 154 mm Hole - For Deviation Survey @ 3165m and
Hole Angle wps 1° - Run next Survey @ 3225m and deviation is out
to 2° - Held Back on Bit Weight from 14,000 lbs to 8,000 lbs
Hole in Good Shape - Held BOP Drill with Night Crew after
Arriving - Computer log did not have logging truck available to
Leave Grande Prairie until this AM - Will Drill ahead until we
receive phone call in Fort McMurray that logging truck and
Crew is on the way - Then will Circulate Hole to Log

WANT LIST:

WEATHER: Clear - Calm - Cool -10°C

ROAD: Good on Highway - Fair to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 79-62 22 660
Yr. Mos. Day TimeWELL NAME PARA ETAL ARROWHEAD LOCATION 0-15 60° 30' N 123° 02' W
Day 36 Depth 3173 Metres last 24 hr 68 Rotating hrs 22.56
Activity at report time DRILLING 156mm Hole

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1670 Vis 47 WL 8 Gels 20/10 Solids 7.6 % PV 17.60 YP 3.35 pH
OH 100 % Sand 1004 % Cake 10 PPMCL 183353.3 PPMCa 122323.3

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT.	RPM							T	D	C
9	156	HC STR 20	X7Y4F	10	80		68	71	22.5	2425	2.9	0	0	0

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			ANN. VEL.		JET VEL.	KHP	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m/MIN	DP	DC			
9	11.1	11.1	11.1	203	110	114	1671	51	86	31		980

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

12	at	3121	m	at	m
	at		m	at	m
	at		m	at	m
	at		m	at	m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg	OPERATION	TODAY	CUM.
B.T.		156	.20		1. Drilling	22.56	
B.T. SUB.		119	.79		2. Trips		
21-DC		119	194.15		3. Rig Service	.56	
12 MWOP		89	110.31		4. Deviation Surveys	1.60	
					5. Ram & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS		
					16. Drilling Out		
					17. Loss Circ.		
					18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Year out		
					21.		
					TOTAL	24	

COSTS

DAILY 23 876
CUMMULATIVE 2056 429

SUPERVISOR

Q SANDERS

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 77 02 22 0600
Yr. Mon. Day TimeWELL NAME PARA ETAL ARROWHEAD LOCATION D-15-66° 30' N 123° 02' W

OPERATIONS DETAIL:

17

DRILL & SURVEY AHEAD Hole GoodFUNCTION MOTOR KILLS OKFUNCTION TOP PIPE RAN 6 SEC

WANT LIST:

WEATHER: 0/CASR

- 10

ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

MOVED ALPINE EQUIPMENT TO A.O.I

PARA-DRL_RPT2.XIS

Geological Morning Report**Feb 22, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 36
Target Location: O-15

Date: Feb 22, 1999
Time: 06:00 hrs
Hours Drilling: 20

Depth: 3172m
Progress: 67m
Average ROP: 3.3m / hr

Formation: Manatoc (Landry ?)

Operational Status: Drilling

Operational Summary: Drill 156mm hole.

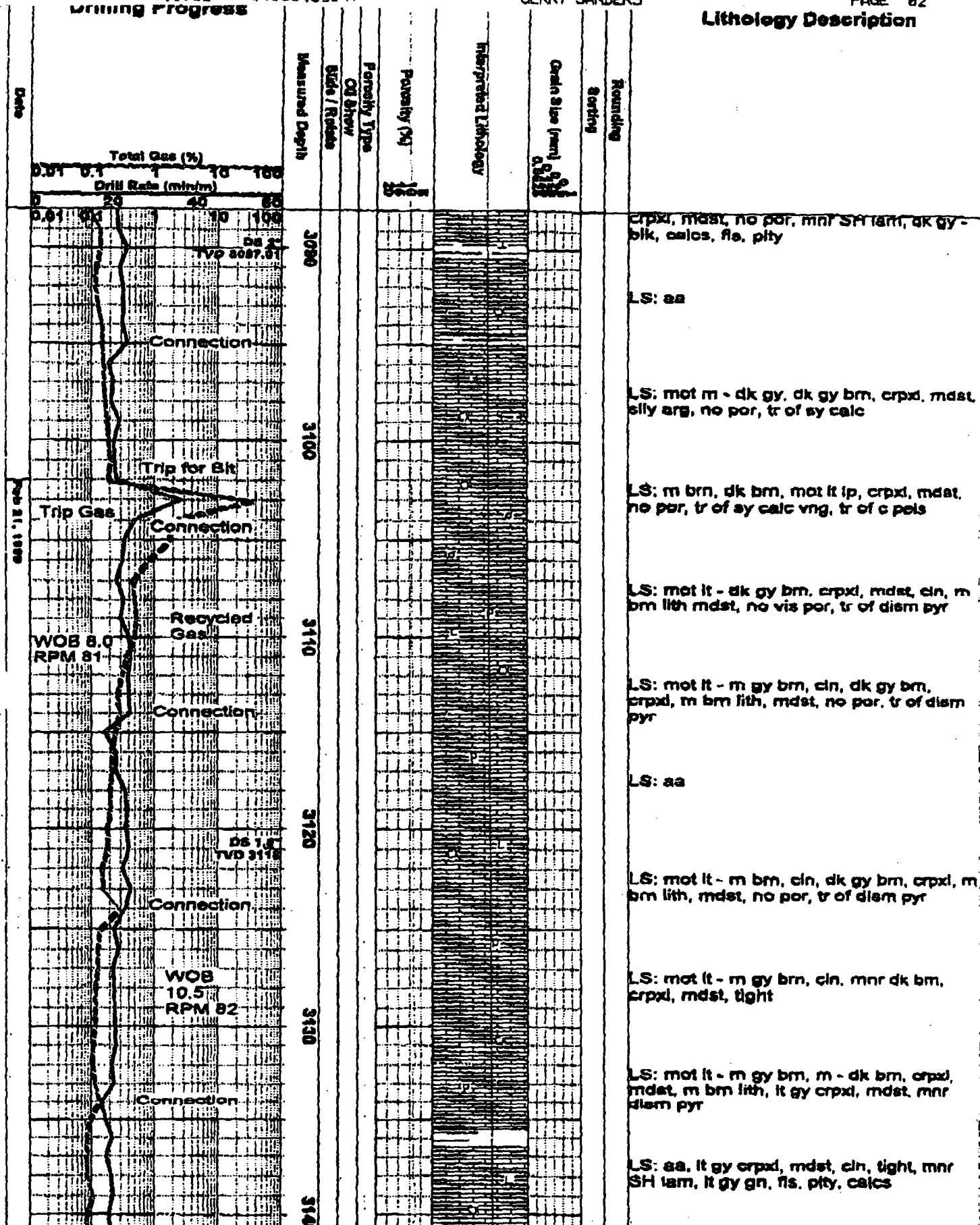
Remarks: Finally found some Dolomite at 3147m MD. Looks like manatoc facies, but I have no idea whether its in the Landry, Arnica or Slave Point. Has a little scattered vugular porosity but no indication that it's permeable. No gas show. Samples are predominantly white, pearly, recrystallized dolomite.

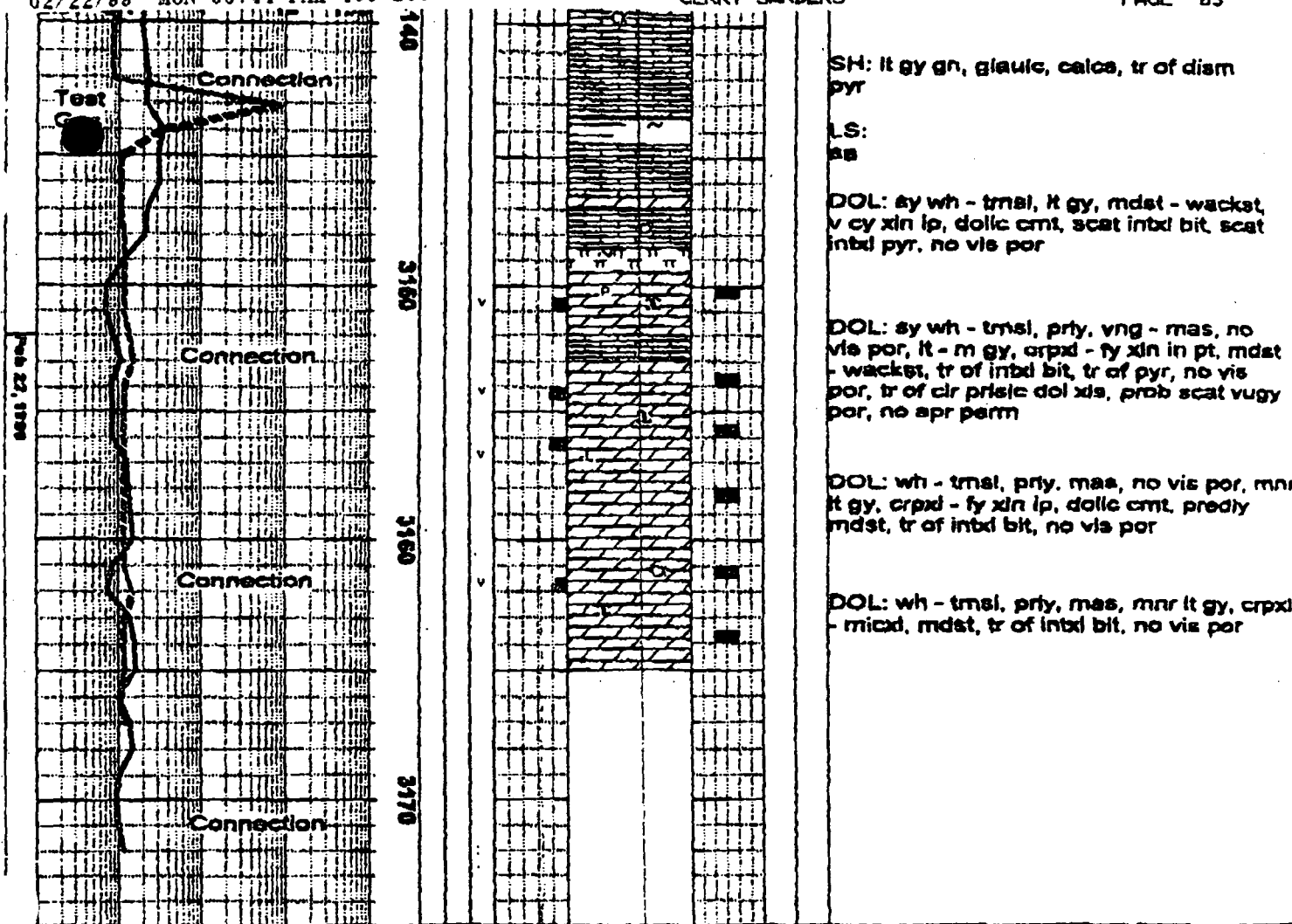
Paramount Resources Ltd.
300O156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Drilling Progress

Lithology Description





Wt. 1070
vis 47

FOR 24 HR PERIOD ENDING 95 02 21

75-0227
NY - Buffalo Di

47 - Mon - Day - Times

LOCATION 0-15 60°38'N 123°2'W

Day 35 Depth 3105

Metres last 24 hr

Rotating hrs 7.50

Activity at report time DRILLING 156 mm HOLE

Wt <u>167.6</u>	Vis <u>47</u>	WL	Gels <u>2.0/1.0</u>	Solids <u>78</u>	% PV <u>17.00</u>	YP <u>75.2</u> pH
Oil <u>92.6</u> %	Sand <u>1004</u> %		Cake <u>1.0</u>	PPMCL <u>15.38</u>	% <u>46.2</u>	PPMCL <u>1138</u> % <u>46.2</u>

BIT RECORD

CIRCULATION RECORD

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

DATE 155

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg	OPERATION	TODAY	CUM.
					1. Drilling	7.50	
BIT		106	1.20		2. Trips	9.0	
Bit sub		119	.79		3. Rig Service	.75	
21 - DRILL COLLAR		115	19.15		4. Deviation Surveys		
12 - HWOP		89	110.31		5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation 35m up Sample	1.25	
					8. Rig Repair Slip & Ck	.50	
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test ROFS		
					16. Drilling Out		
					17. Lost Circ.		
					18. Laying Down DP & ROFS 2.14.90	8.6	
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21.		
					TOTAL	24	

PARA-DRL RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99 02 21 0600
Yr Mon Day TimeWELL NAME PARA ETAL ARROWHEADLOCATION 0-15 - 60° 24' 12" N 123° 02' W

OPERATIONS DETAIL:

1+

DRILLED TO 3102m. STATIC PENETRATION RATE. DROP SURVEY FLOW

P.O.G.H. FLOW V 2938m 1640m 305m & BANK.

RIG SERVICE FUNCTION TEST BINA RAN 6 SEC.

TORE OUT ROTATING HEAD - INSTAL FLOW NIPPLE, FLOW LINE.

RAN IN 44 BIT #9, SLIP & CUT DRILLING LINE.

RAN INTO 3086m WASHED 27m TO 3101m

DRILLING 156mm HOLE @ 0600 Hrs

WANT LIST:

WEATHER: CLEAR

-18

ROAD: C660

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 21, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-604-780-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 35
Target Location: O-15

Date: Feb 21, 1999
Time: 06:00 hrs
Hours Drilling: 7

Depth: 3105m
Progress: 20m
Average ROP: 2.8m / hr

Formation: Headless?

Operational Status: Drilling

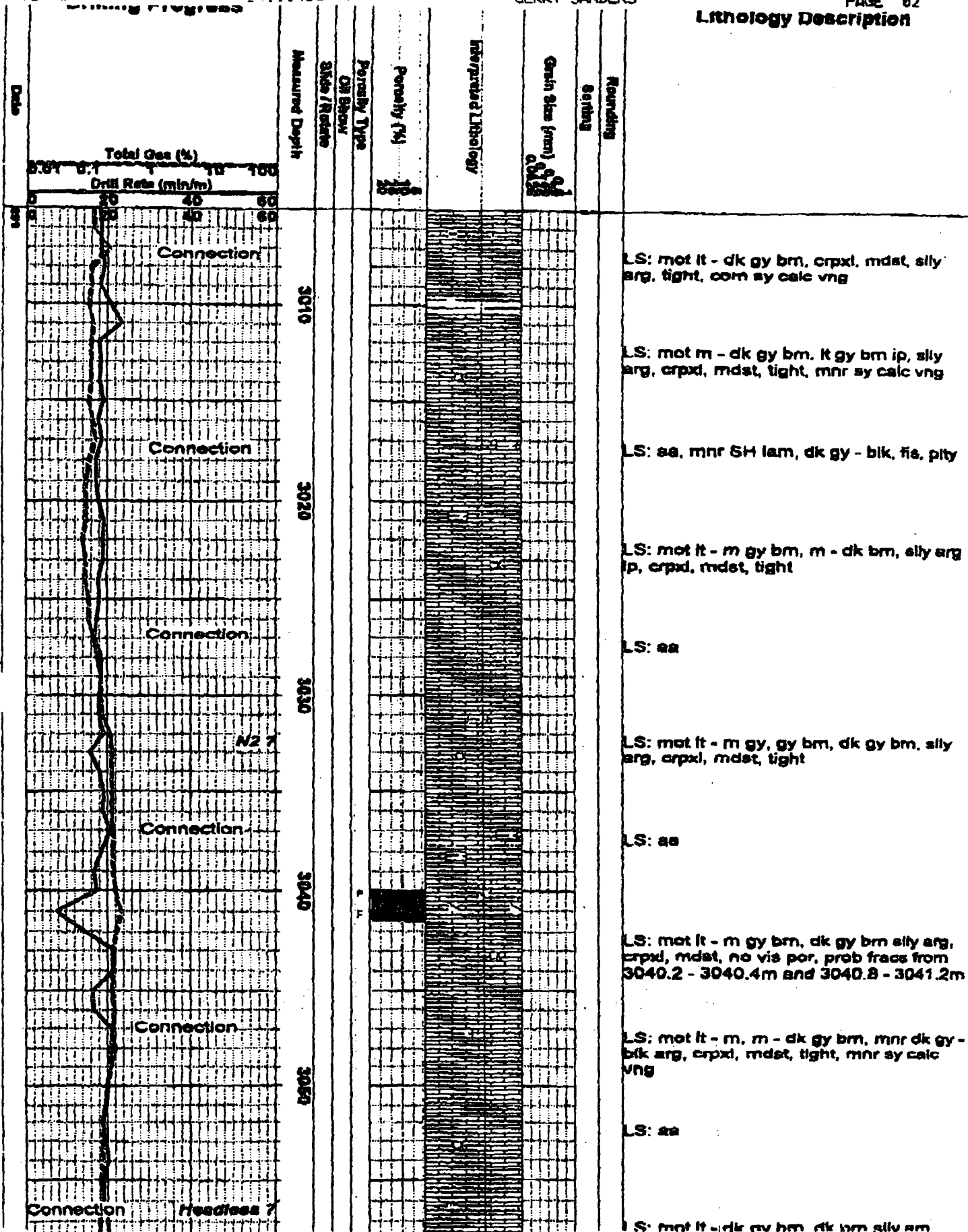
Operational Summary: Drill 156mm hole, Hoist for bit, Tear out rotating head, Run in and drill 156mm hole.

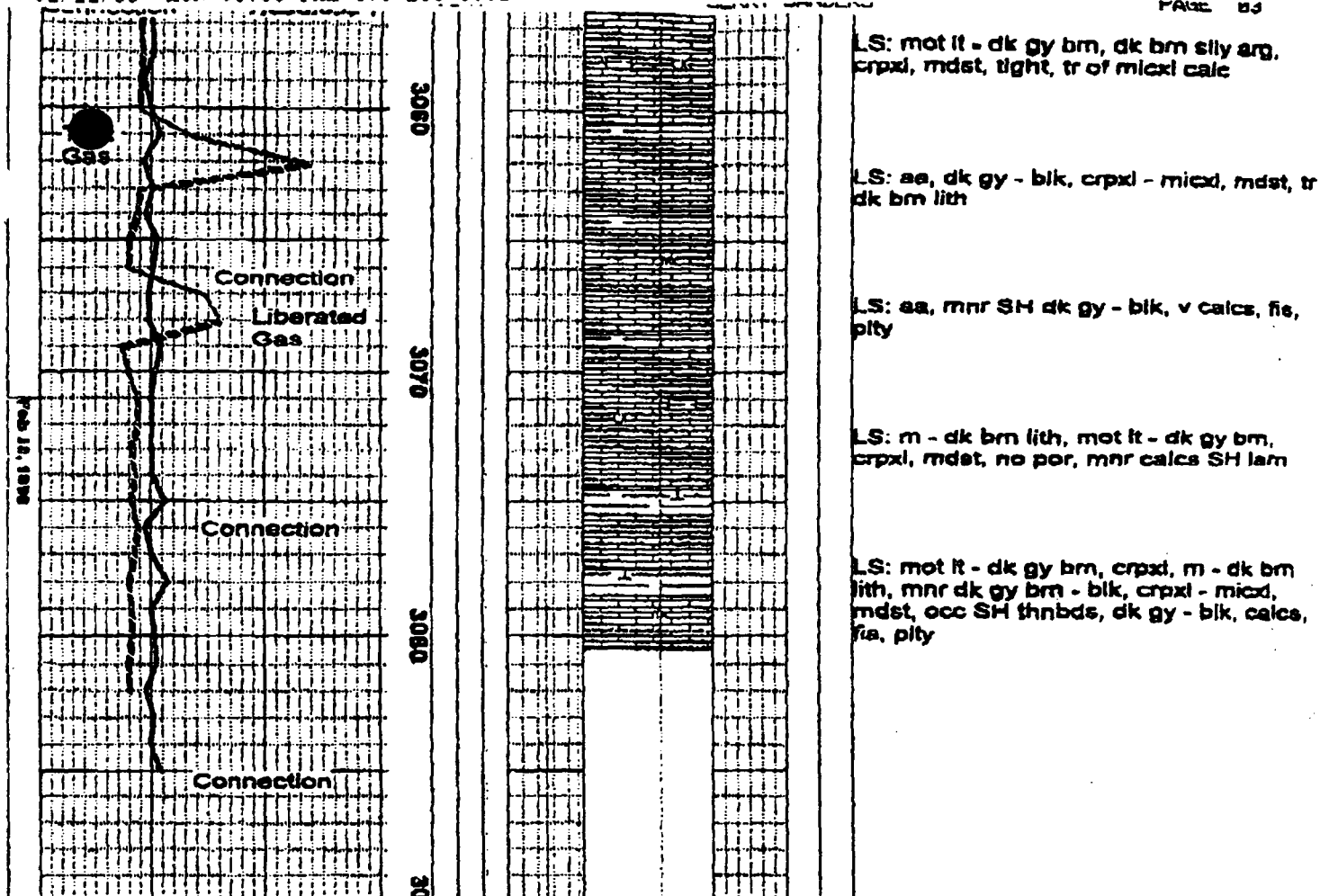
Remarks: Drilling in tight dark Limestone with occasional shaly laminae and Shale thinbeds. No significant gas shows. A little connection gas below the fracture but not on every connection. Must be close to balance. Density 1065. Back on bottom at 05:30 this morning. Trip gas to 33%. Loggers alerted.

Paramount Resources Ltd.
300O156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Lithology Description





@ 3071 m.
MD 1065
vis 47

Flowline Temp 40°C

Surveys

3026 1 1/2°
3071 1 3/4°

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99 02 20 0600
Yr - Mo - Day - Time

WELL NAME PARA ETL AROQUITEM LOCATION G-15-60°30'N 123°02'W
 Day 31 Depth 3085 Metres last 24 hr 66 Rotating hrs 21.75
 Activity at report time SURVEYING

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIST

Wt 1065 Vis 47 WL Gels 2.6 Solids 26 % PV 16.00 YP 3.83 pH
 OH 92.5 % Sand 1004 % Cake 1.0 PPMCL NF253.7 PPMCa 110.442.8

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RRM							T	B	G
8	156	10026053716	NL 47	12	80		66	149	21.75	54.24	2.74			

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m³/MIN	DP	DC			
8	11.9	11.9	11.9	203	116	114	7671	51	26	31		8201.4

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

<u>15</u>	at	<u>3026</u>	m	at		m
	at		m	at		m
	at		m	at		m
	at		m	at		m

BASITE 42.5L
LIME 24.5L

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION		CUM.
						TODAY	
<u>BIT</u>		<u>156</u>	<u>20</u>		1. Drilling	<u>21.75</u>	
<u>BIT SUB</u>		<u>119</u>	<u>7</u>		2. Trips		
<u>21-OC</u>		<u>119</u>	<u>194.3</u>		3. Rig Service	<u>1.25</u>	
<u>12 H400</u>		<u>89</u>	<u>110.31</u>		4. Deviation Surveys	<u>2.00</u>	
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS		
					16. Drilling Out		
					17. Lost Crt.		
					18. Laying Down SP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21.		
					TOTAL	<u>24.0</u>	

COSTS

DAILY 62700
 CUMMULATIVE 1995377

SUPERVISOR

G. SANDELS

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-02-20 1600
Vr - Mod - Day - TIMEWELL NAME PARA 6712 ARROWHEADLOCATION 0-15 60°30'N 123° 02'W

OPERATIONS DETAIL:

15

DRILL AND SURVEY AHEADFUNCTION TEST 3TH PEX Dams 6 SEC.LONGEST DRILLING DEPTH TUE SEEN

WANT LIST:

WEATHER:

0/CAS-16

ROAD:

Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

MOVED ENTIRE EQUIPMENT TO A-01 PRECISION 373.

PARA-DRL_RPT2.xls

Geological Morning Report

Feb 20, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 Spud Date: Re-entry
Grid Area: 60° 30' 123° 00' Days from Entry: 34
Target Location: O-15

Date: Feb 20, 1999
Time: 06:00 hrs
Hours Drilling: 20

Depth: 3085m
Progress: 66m
Average ROP: 3.3m / hr

Formation: Headless?

Operational Status: Drilling

Operational Summary: Drill and survey as required.

Remarks: Drilling in tight dark Limestone with occasional shaly laminae and Shale thinbeds. No significant gas shows. A little liberated gas at 3068m. Nothing in the samples to correspond. There appears to be a fracture zone from 3032 to 3047 with a large scale fracture at 3041m MD. No gas effect. I'm interpreting this zone as the N2 porosity. There is a very subtle change in Limestone below 3056m. It appears to be less consistent, with thinbeds of microcrystalline Limestone, brown lithographic Limestone and black Shales. I'm calling this the Headless for now. I'm hoping that the Landry top is more definitive. Last survey at 3071m was 1 1/4°.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

P.10

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-19 0600
Yr. Mon. Day Time

WELL NAME PARA ETL ARROWHEAD LOCATION 0-15-60°30'N 123°02'W
 Day 33 Depth 3819 Metres last 24 hr 64 Rotating hrs 22
 Activity at report time DRILLING 156 m/hr

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

WI 1065 Vis 48 WL Gels 26/10 Solids 7.5 % PV 16.00 YP 3.83 pH
 Oil 926 % Sand 1603 % Cake 10 PPMCL 176470.6 PPMCs 105822.5

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
8	156	1994 51116	126477	12	80		64	83	22	52.5	1.96	63		

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SFM	LINER m/MIN	DP	DC			
8	11.9	11.9	11.9	203	110	114	671	51	56	21	8000

DEVIATION SURVEYS

9/8	at 2968 m	at m
	at m	at m
	at m	at m
	at m	at m

MUD & CHEMICALS ADDED

Barite	42.5%
Invert	10 m ³

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
BIT		156	1.20	
B.L.C. SUB		115	1.79	
21-DRILL COLLARS		115	19.13	
12-4WOP		89	10.31	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	22	
2. Trips		
3. Rig Service	30	
4. Deviation Surveys	1.06	
5. Beam & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair Collars, 2 BOP	1.25	
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21. H2S & BOP Drill	1.25	
TOTAL	24	

COSTS

DAILY 60201
 CUMMULATIVE 19326777

SUPERVISOR

G. SANDERS

PARA-DRILL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING: 99-02-19 0600
Yr Mon Day TimeWELL NAME PARA ERM ArrowheadLOCATION 6-15-60°30'N 123°12'W

OPERATIONS DETAIL:

DRILL & SURVEY AHEAD.INSTALLED BLANK IN ROTATING HEAD.HELD B.O.P & H₂ DRAIN W/ CREW IN POSITION WITH SHUTIN 2 MINFUNCTION TESTED ANNULAR CLOSED 12 SEC PIPE RUN 6 SECENTIRE EQUIPMENT READY TO MOVE TO A-01.AIR EQUIPMENT & PROPANE SKID & VAPORIZER TO P57.

WANT LIST:

WEATHER: 6/CLRROAD: 6080

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

Air Equipment TO P57. PROPANE SKID & VAPORIZER (166) SENT TO P57.

PARA-DRL_RPT2.XLS

Geological Morning Report**Feb 19, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-343-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 33
Target Location: O-15

Date: Feb 19, 1999
Time: 06:00 hrs
Hours Drilling: 20.5

Depth: 3019m
Progress: 64m
Average ROP: 3.1m / hr

Formation: Horn River

Operational Status: Drilling

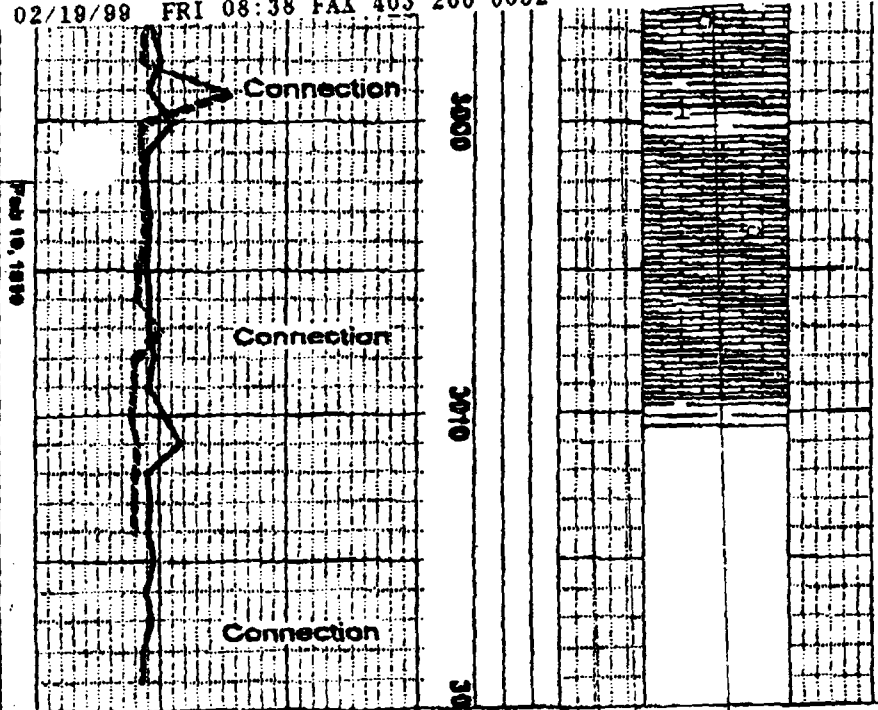
Operational Summary: Drill and survey as required.

Remarks: Drilling in tight dark Limestone with occasional shaly laminac and Shale thinbeds. No gas shows. Horn River 2950.5m MD (about 2947.5m TVD) Looks similar to the Slave Point. No indication of Nahanni as yet.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

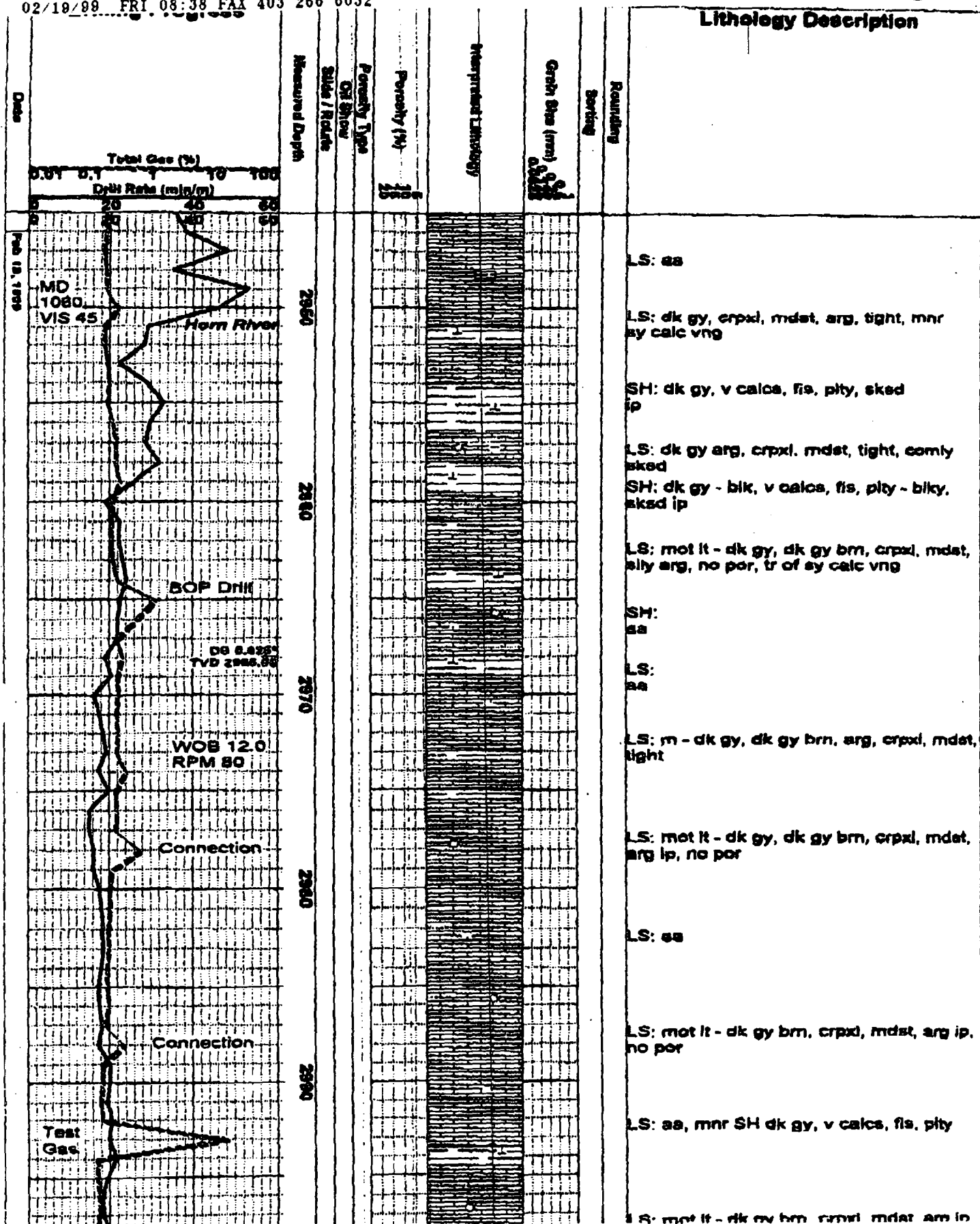
Feb 19, 1999



LS: mot lt - dk gy brn, crpxl, mdst, arg ip, no per, mnr SH lam

LS: aa

LS: mot lt - dk gy brn, crpxl, mdst, sly arg, tight, com sy calc vng



PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-02-17-0600
Yr - Mon - Day - TimeWELL NAME PARA EXT. AREALOCATION 5-15- 60° 30' N 122° 02' W**OPERATIONS DETAIL:**

PULL OUT OF HOLE. CHECKED ALL CONNECTIONS FLOW CHECK = 2753-

22.7m 1500m 252m. BANK. Fill up MAN. 10.74m³ CALC 10.34m³

RAN IN HOLE LAYED DOWN 2 BENT HWD P & 6 E PIPE. PICKED UP 8 HWD

FULL PIPE & PLUG V 908m, 1870m 2710m INSTALLED R.B.P.

SLIP & CUT DRILLING LINE

FUNCTION TEST TOP PIPE RUNS 63 ANNUAL 12 SEC

WASHER 15m TO 87m.

DRILL ATTEND

SENT 50m³ CONTAMINATED MUDS & SALT WATER TO FT ST JOHN
NEW ALTA FOR DISPOSAL

3 LOADS OF EQUIPMENT MOVES TO P57

WANT LIST:WEATHER: 0/CAS

-12

ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 18, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 32
Target Location: O-15

Date: Feb 18, 1999
Time: 06:00 hrs
Hours Drilling: 9.5

Depth: 2955m
Progress: 19m
Average ROP: 2m / hr

Formation: Sulfur Point

Operational Status: Drilling

Operational Summary: Trip, Drill ahead

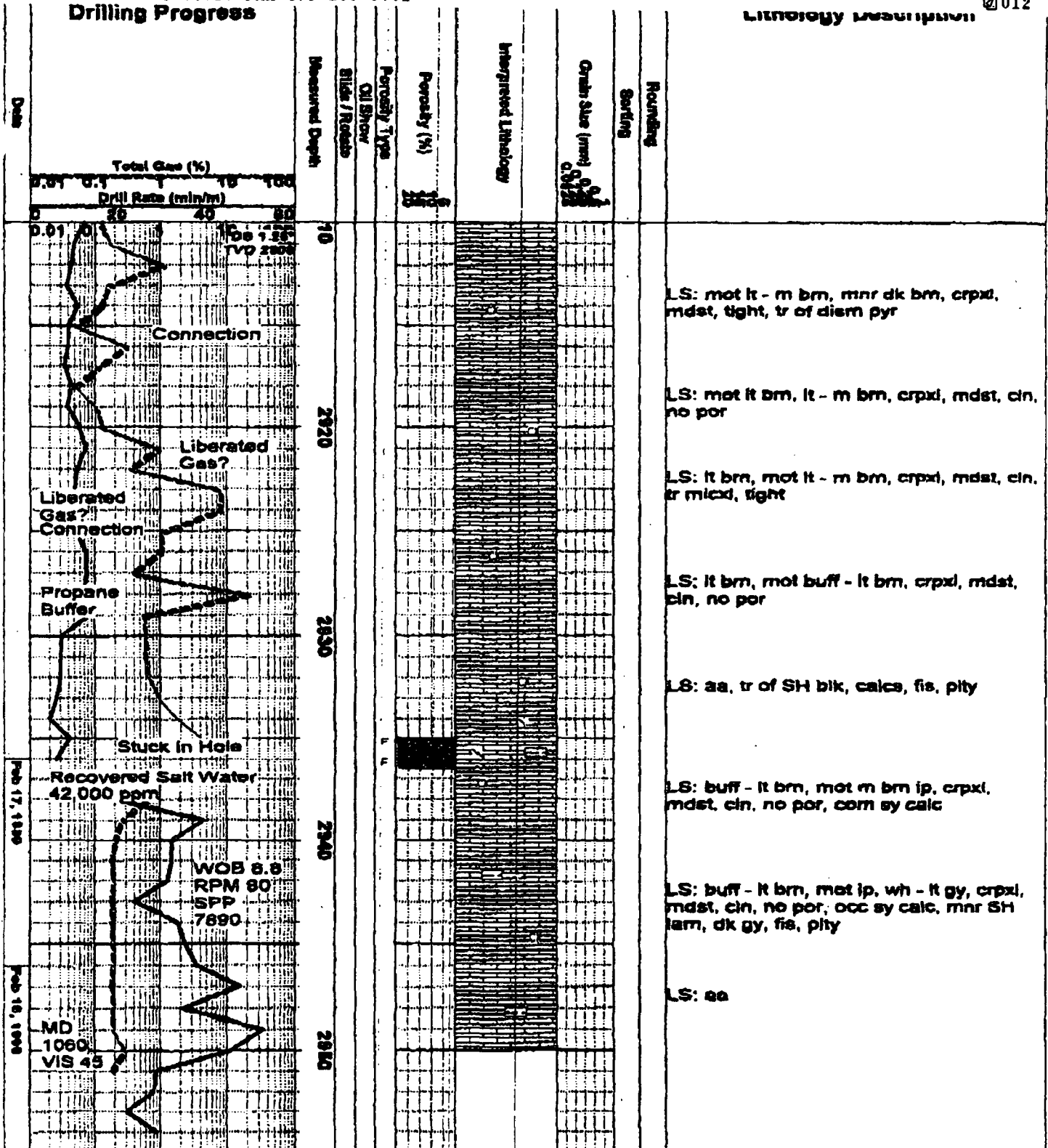
Remarks: So much for gut feelings. Haven't seen anything but Limestone. Looks a little cleaner so maybe we crossed a fault? No gas shows. No visible porosity.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Lithology Description

Drilling Progress



FOR 24 HR PERIOD ENDING 99. 02. 17 - 0600
Yr. Mon. Day Time

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99 02 17 0600
Yr - Mon - Day - Time

WELL NAME: PARA ET AL ARROWHEAD

LOCATION 8-15

OPERATIONS DETAIL:

WAITED ON WIRELINE & FISHERMAN
 BACKED OFF DRILL PIPE MANUALLY WHILE WAITING
 BLEED OFF PRESSURE BETWEEN STRING FLOOR & BIT.
 PULLED OUT OF HOLE RECOVERED 31 STDS + 1 SINGLE DP.
 LAYED DOWN 1 SINGLE & STRING FLOOR.
 RAN IN OPEN HOLE & CIRC ABOVE FISH. FILLED HOLE WATER LEVEL @ 2044m
 SCREWED INTO FISH - WORKED PIPE & PRESSURE UP ON DALL STRING.
 FISH CAME FREE.
 CIRC BTMS UP (SALT WATER AND INVERT) CONTAIN CONTAMINATED MUD IN
 2 COMPANY MUDS IN MUD TANKS
 PULLED 5 STDS AND RACKED BACK.
 CLEANED CONTAMINATED MUD OUT OF MUD TANKS & STORED IN 425 TRIM
 400 BBL TANKS WITH VAC TRUCK. HAVE 74m³ IN TANKS.
 TRANSFERRED 10m³ BACK OIL & 30m³ INVERT FROM TANK FARM TO R/L
 TO BRING MUD TANK VOLUME TO 100m³.
 MIXED BARITE TO BRING LST TO 1065 kph.
 RAN IN 5 STANDS AND DISPLACED MUD THROUGH ENTERY TO 400 BBL
 TANK.
 CIRC BTMS UP & CHECKED FOR FLOW
 P.O.O.H TO CHECK DRILLING STRING @ 0600 H

WANT LIST:

WEATHER: L SNOW

- 12

WIND DIR & ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 17, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-800-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 31
Target Location: O-15

Date: Feb 17, 1999
Time: 06:00 hrs
Hours Drilling: 0

Depth: 2936m
Progress: 0m
Average ROP: 0m / hr

Formation: Sulfur Point

Operational Status: Tripping

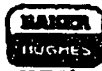
Operational Summary: Work stuck pipe. Back off and Trip, Circulate, Screw in and pull loose. Hoist into casing. Weight up, Displace annulus, Trip to check string and bit.

Remarks: Circulated up sour Salt Water. Sent 3 samples to AGAT. Salinity 42000 ppm. Hope to be drilling again by late afternoon. My gut feeling is that we drilled into some dolomite (2933m) at the base of the Sulfur Point but I haven't seen any cuttings from the bottom to confirm. Possible fracture at 2935.2 - 2935.4m

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

P.05



Field Service Report "OIL MUD"

FIELD SERVICE REPORT "OIL MUD"

Job #:

26573

DATE	2/17/99	CHECK NUMBER	26
SPUD DATE	1/17/99	DAYS FROM SPUD	31
PRESIDENT ACTIVITY	Circulate To Condition		
HOLE SECTION	Production		

REPORT FOR: Mr. GERRY SANDERS		REPORT FOR: Mr. PETE HUSTON																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
WELL NAME AND LOCATION: PARAMOUNT BERKLEY(O-15)		PROVINCE: NWT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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<table border="1"> <tr> <th colspan="2">BIT RECORD</th> <th colspan="2">DRILLING ASSEMBLY (ID(mm)-Len(m))</th> <th colspan="2">HOLE or CASING ID(mm)-Len(m)</th> <th colspan="2">CASING PROGRAM (ID(mm)-Len(m))</th> <th colspan="2">ANNULAR VELOCITY (m/min-Flow-Dep(m))</th> <th colspan="2">PUMP PERFORMANCE</th> </tr> <tr> <td>BIT NO.</td><td>7</td> <td>PIPE</td><td>72.0</td> <td>68.0</td><td>2887</td> <td>181.7</td><td>2805</td> <td>60.2</td><td>LA</td> <td>3742</td> <td></td> </tr> <tr> <td>DES. mm</td><td>158</td> <td>PIPE</td><td></td><td></td><td></td> <td></td><td></td> <td>78.4</td><td>LA</td> <td>2805</td> <td></td> </tr> <tr> <td>TYPE</td><td>EMPS1H</td> <td>WHT</td><td>62.8</td><td>68.0</td><td>65</td> <td></td><td></td> <td>84.4</td><td>LA</td> <td>2805</td> <td></td> </tr> <tr> <td>1</td><td>15.9</td> <td>DC</td><td>67.2</td><td>118.0</td><td>184</td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>2</td><td>18.9</td> <td>DC</td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>3</td><td>15.9</td> <td>DC</td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>4</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>5</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>6</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>7</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>8</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>9</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>10</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> <td></td><td></td><td></td> <td></td> </tr> <tr> <td>DEPTH IN m</td><td>2805</td> <td colspan="2">MUD SYSTEM VOLUMES m³</td><td>2.0</td> <td>41.3</td> <td>67.6</td> <td>11.8</td> <td>80.5</td> <td>105.4</td> <td>78.0</td> <td></td> </tr> <tr> <td>MEAS. ON BIT</td><td>23.75</td> <td colspan="10"> <table border="1"> <tr> <th colspan="8">DRILLING AND SOLIDS CONTROL EQUIPMENT</th> <th colspan="2">VIB. READING (Temp)</th> <th colspan="2">CIRCULATION TIME min</th> </tr> <tr> <td>SHAKER 1</td><td>SHAKER 2</td><td>DESSANDER</td><td>DEILTER</td><td>CENTRIFUGE</td><td>CENTRIFUGE</td><td>REC. 47</td><td>300</td> <td>29</td> <td>200</td> <td>100</td> <td>60</td> <td>30</td> <td>144</td> </tr> <tr> <td>TYPE</td><td>TYPE</td><td>TYPE</td><td>TYPE</td><td>TYPE</td><td>TYPE</td><td>COYOTE</td><td>COYOTE</td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>SCREEN SIZE</td><td>SCREEN SIZE</td><td>UP DENS light</td><td>UP DENS light</td><td>UP DENS light</td><td>UP DENS light</td><td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>SCREEN SIZE</td><td>SCREEN SIZE</td><td>UP DENS light</td><td>UP DENS light</td><td>UP DENS light</td><td>UP DENS light</td><td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>SCREEN SIZE</td><td>SCREEN SIZE</td><td>UP RATE L/min</td><td>UP RATE L/min</td><td>UP RATE L/min</td><td>UP RATE L/min</td><td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>SCREEN SIZE</td><td>SCREEN SIZE</td><td>HOURS RUN</td><td>HOURS RUN</td><td>HOURS RUN</td><td>HOURS RUN</td><td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>HTHP FLT. m³</td><td>14.200</td> <td>FAC. 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READ</td><td>0</td> <td>0% LOSS ON OUT.</td><td>0.00%</td> <td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>FLY CAKE mm</td><td>3500.00</td> <td>FAC. CUTTING</td><td>0</td> <td>0% LOSS ON CENT.</td><td>0.00%</td> <td></td><td></td> <td></td><td></td> <td></td><td></td> <td></td><td></td> </tr> <tr> <td>SULFIDES mg/L</td><td>0.000</td> <td colspan="12">REMARKS: FINE BREAKDOWN, PROBLEM: HOLD CONDITIONS, BRECKEN.</td> </tr> <tr> <td>H10 GC</td><td>2.3</td> <td colspan="12">FULL BREAKDOWN WATER, DEWPOINT DEPTH(DAT)</td> </tr> <tr> <td>VERBENATE CC</td><td>1.7</td> <td colspan="12">02/16/99 - Work stuck pipe, wait on wireline truck, perform manual back-off at 31 stands and a single, hoist, pull R-Sop and bearing assembly. Trip in, circ above fish, mud contaminated with salt sour water, screw into fish, work pipe free, circ out contaminated invert mud with 30 ppm M2s. 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SULFIDES mg/L	0.000	REMARKS: FINE BREAKDOWN, PROBLEM: HOLD CONDITIONS, BRECKEN.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
H10 GC	2.3	FULL BREAKDOWN WATER, DEWPOINT DEPTH(DAT)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
VERBENATE CC	1.7	02/16/99 - Work stuck pipe, wait on wireline truck, perform manual back-off at 31 stands and a single, hoist, pull R-Sop and bearing assembly. Trip in, circ above fish, mud contaminated with salt sour water, screw into fish, work pipe free, circ out contaminated invert mud with 30 ppm M2s. Strip out 5 stands, transfer contaminated invert to storage tanks, pump over new invert to pits end weight up to 1065 kg/m3.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
S. NITRATE CC	1.20	All Invert lost was the contaminated Invert that went to storage for later disposal. Salinity of salt water was 42,000 ppm. Roughly 42m3 of salt water from formation entered mud system while air drilling.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Line (kg/m)	8.12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Ca mg/L (Wp)	113303.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Ca(NO3)2 mg/L(Wp)	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Ca(NH4)2 mg/L (Wp)	0.0%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NO3 mg/L (Wp)	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Cl mg/L (Wp)	21688.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Coclen (Wp)	25.3%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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PREVIOUS ACTIVE G.	(1)	105.2	WHEN: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MIDDLE LABELS FOR FURTHER INFORMATION.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
INVERT ADD.	(2)	18.0	RECOMMENDATIONS:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
DIESEL ADD.	(3)	19.0	1 - Control weight at 1060-1065 kg/m3 using small amounts of Baryte or run centrifuges as required.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
BRINE ADD.	(4)	42.0	2 - When back on bottom after bit trip, add 30 sks Lime in over a circulation.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
PRODUCT ADD.	(5)	3.0	3 - There is 1 drum of Carb-tec and 1 drum Carb-mul in change building, add these 2 in over a circulation.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
INVERT REC.	(6)	0.0	4 - Nothing else is needed mixed at this time.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
TOTAL ACTIVE (1+2+3+4+5+6)	(7)	178.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
ACTUAL PRESENT VOL.	(8)	103.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
24 HOUR LOSS (7-8)	(9)	74.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
PREV LOSS - INVERT REC.		52.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TOTAL LOSS - INVERT REC.		128.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
INVERT DEL.		236.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
INVERT STORED		82.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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<table border="1"> <tr> <td>DRILL Y.S.A.</td> <td>Kath Gummow</td> <td>PHONE</td> <td>(403) 763-3313</td> <td>MOBILE</td> <td>(403) 557-5323</td> </tr> <tr> <td>H.J. TRUCKER</td> <td>Fortitude Trucking Ltd</td> <td>WAREHOUSE</td> <td>Fort Nelson</td> <td>PHONE</td> <td>(250) 774-6100</td> </tr> <tr> <td>PRODUCT COST SINCE LAST CHECK</td> <td>\$8,207.50</td> <td>PRODUCT COST TO DATE</td> <td>\$43,147.26</td> <td colspan="2"></td> </tr> <tr> <td>TOTAL SERVICES COST TO DATE</td> <td>\$11,000.00</td> <td>TOTAL COST TO DATE</td> <td>\$78,147.26</td> <td colspan="2"></td> </tr> </table>														DRILL Y.S.A.	Kath Gummow	PHONE	(403) 763-3313	MOBILE	(403) 557-5323	H.J. TRUCKER	Fortitude Trucking Ltd	WAREHOUSE	Fort Nelson	PHONE	(250) 774-6100	PRODUCT COST SINCE LAST CHECK	\$8,207.50	PRODUCT COST TO DATE	\$43,147.26			TOTAL SERVICES COST TO DATE	\$11,000.00	TOTAL COST TO DATE	\$78,147.26																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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IN CONSIDERATION OF THE FURNISHING OF THIS REPORT AND ORAL, SUGGESTIONS, IT IS AGREED THAT NO RECOMMENDATIONS MADE HEREON SHALL BE CONSIDERED AS AUTHORIZING THE UNDERTAKING OF ANY UNLAWFUL ACT, AND IT IS AGREED THAT BAKER HUGHES INTECH SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE FURNISHING OF THIS REPORT AND ORAL SUGGESTIONS AND IS TO BE HELD HARMLESS. NOTE: W = WATER FLUID, MUD - WHOLE MUD, LA = LAMINAR FLOW, TR = TRANSITIONAL FLOW, TV = TURBULENT FLOW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Thanks.....

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-16-0600
Yr Mon Day TimeWELL NAME PARA ETAL ARROWHEADLOCATION 0-15 60° 30' N 123° 02' WDay 30Depth 2936Metres last 24 hr 66Rotating hrs 12.5

Activity at report time

WORK STUCK PIPE WAIT ON WIRE LINE & TOOLS

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT @ L-3 RINE . 962 - 972

Wt 10.15

Vis

WL

Gels 1.0/1Solids 18.0% PV 14.0YP 182 pHOil 98.3 %Sand .607 %Cake 1.0FPMCL 18666FPMCL 90666

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	D	G
7	156	RTCAPIH	MA9771	1/16	84		66	131	12.56	23.75	5.5			68

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m³/MIN	DP	DC			
7	129	129	129	203	40	114	.3					4800 kPa

DEVIATION SURVEYS

14	at	2911	m		at		m
	at		m		at		m
	at		m		at		m
	at		m		at		m

MUD & CHEMICALS ADDED

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
BIT				
Bit SUB				
FLAT SUB				
21 DRILL COLLAR				
6 HWDP				

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	12.50	
2. Trips		
3. Rig Service	1.50	
4. Deviation Surveys	1.25	
5. Ream & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation	.75	
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing <u>Work Stuck Pipe</u>	7.00	
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down BP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21.		
TOTAL	24	

COSTS

DAILY

43993

CUMMULATIVE

1737165

SUPERVISOR

G SANDERS

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99.02.1

Yr Mon Day Time

WELL NAME: PARA ERL ARROWHEAD

LOCATION: 0-15

OPERATIONS DETAIL:

15

DRILLED AHEAD TO 2925M. W/ NITRIFIED INVERT. HOLE CLEANING GOOD
CIRC H2E CLEAN. DISPLACED DRILL PIPE W/ 6" INVERT. RETRIEVED STRING PLANT
SURVEYED @ 2911m 15°
INSTALLED STRING PLANT AND DRILLED AHEAD TO 2936m.
MADE A QUICK 4m OF HOLE 2935-2936m. TABLE TORQUED UP.
STOPPED ROTATING - TRIED TO WORK STRING. ONLY ABLE TO PICK UP
3m. PIPE STUCK. WORKED PIPE W/ NITRIFIED FLUID HOLE PACKED
OFF COULDN'T CIRCULATE. BLEED OFF PRESS ON D.P. SIDE. COULD ONLY
BLEED OFF KELLY & SINGLE. ANNULUS BLEED DOWN. HAVE NITROGEN & FLUID
TRAPPED BETWEEN STRING PLANT & PACKED OFF ANNULUS.
WORKED STUCK PIPE TO ONE HUNDRED AND FIVE CM.
STILL STUCK @ 0600 HRS.
MUD REPORT WOULD INDICATE POSSIBLE WATER INFLUX. WILL HAVE
TO CHECK FURTHER WHEN UNSTUCK.

WANT LIST:

WEATHER: -18 C EAST

ROAD: G660

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 16, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-608-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 30
Target Location: O-15

Date: Feb 16, 1999
Time: 06:00 hrs
Hours Drilling: 9.5

Depth: 2936m
Progress: 64m
Average ROP: 6.7m / hr

Formation: Sulfur Point

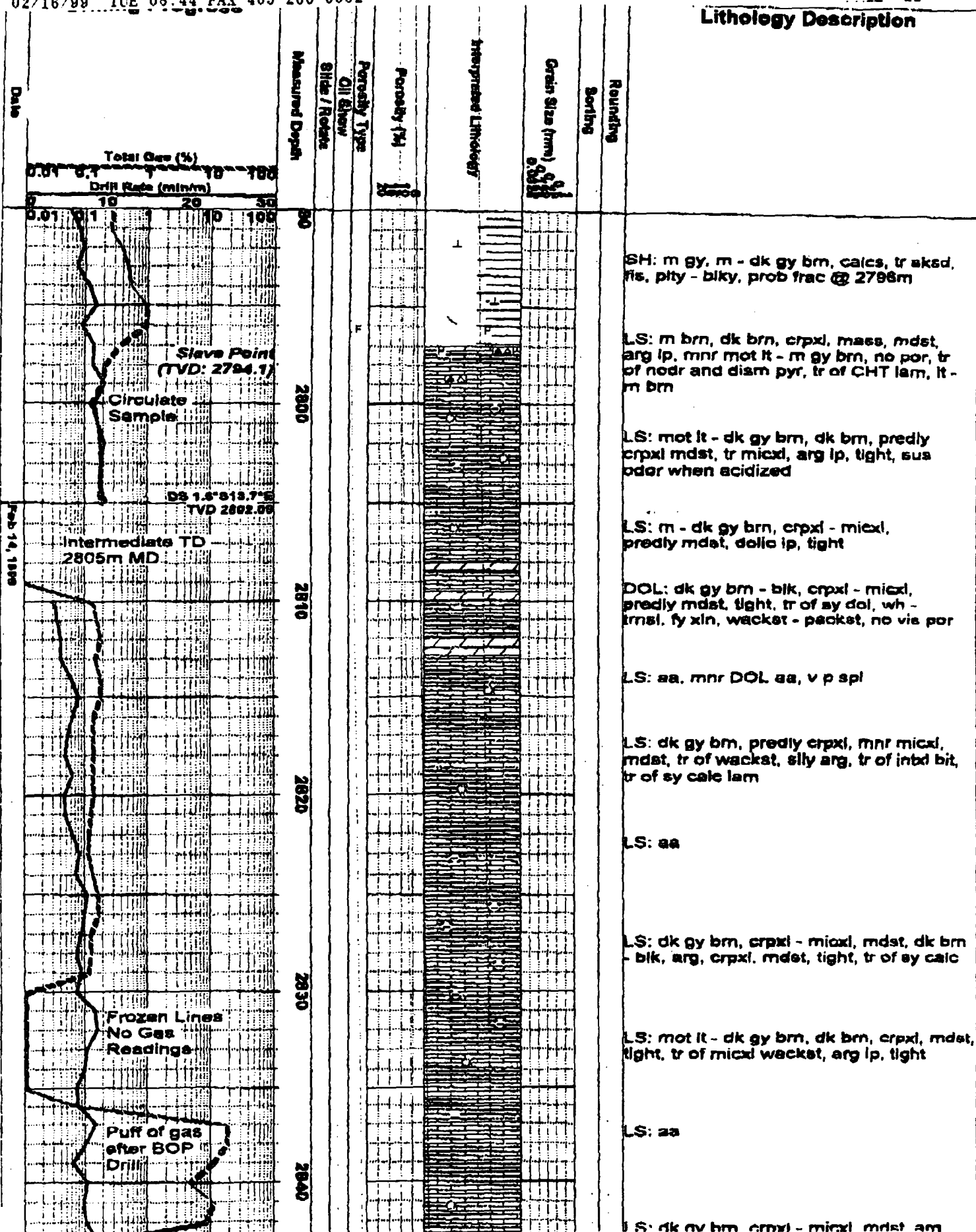
Operational Status: Stuck in Hole

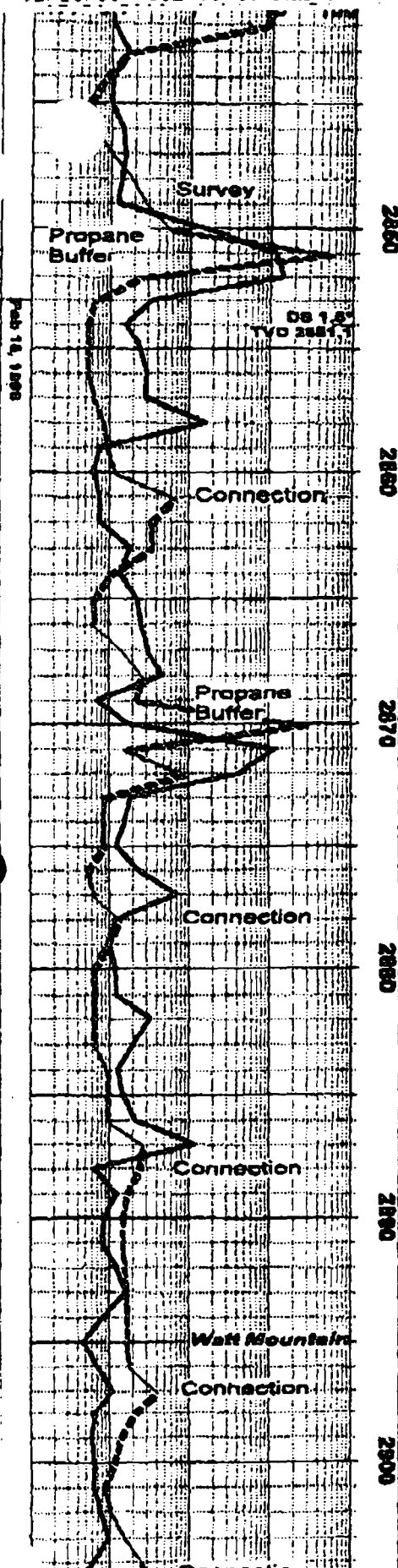
Operational Summary: Drill and survey.

Remarks: Still in Limestone. No sign of dolomitization to this point. No significant gas. Watt Mtn @ 2894.5m MD (about 2891.5m TVD) Sulfur Point @ 2906m MD (about 2903m TVD) My best guess is that we are about 8-9m east of well center. Survey at 2911m was 1.25. Sulphur point is a lighter colored, cleaner lime than in the previous well but a massive mudstone. Stuck in hole on connection at 2936m MD. Waiting on tools.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'





LS: dk gy brn, crpxl - micxl, mdst, arg, tight, lt - m brn micxl wackst, no por

LS: dk gy brn, crpxl, mdst, silty arg. tight, m - dk brn, crpxl - micxl, mot lp, predly mdst, tr of wackst, no por

LS: dk gy brn, lt - m brn, crpxl, mdst, silty arg lp, tight

LS: aa

LS: mot lt - dk brn, dk gy brn arg, predly crpxl, mnr micxl, mdst, no por

LS: m brn, dk gy brn, mot lt ip, predly crpxl mdst, mnr micxl wackst, no por

LS: m brn, dk gy brn, mot lt ip, predly crpxl mdst, tight

LS: aa, tr of sy calc lam

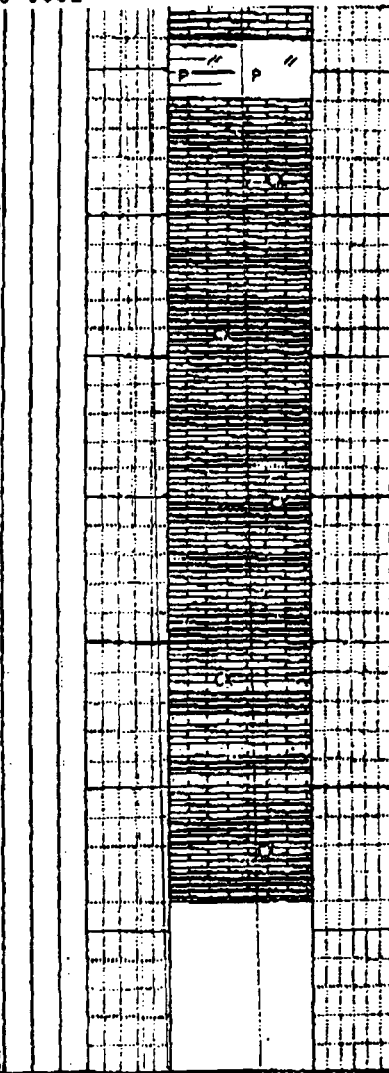
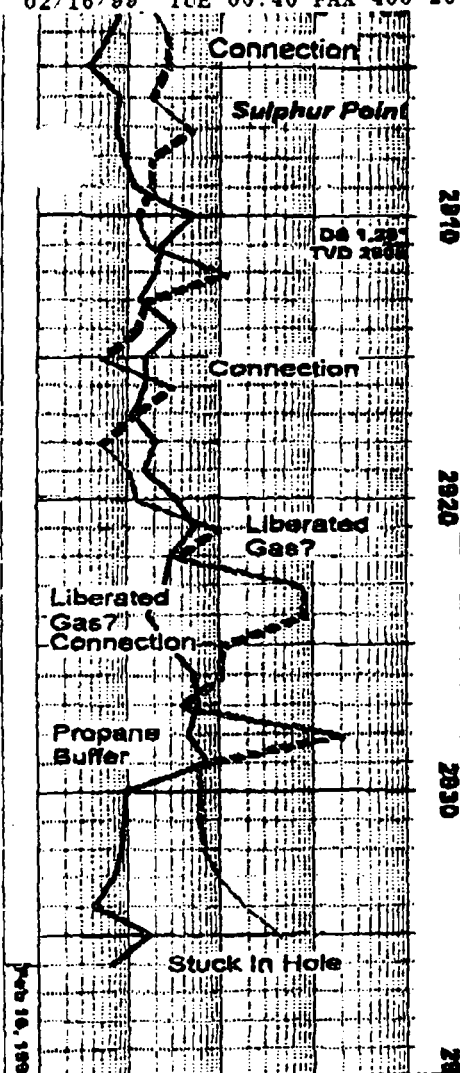
LS: m brn, dk gy brn, arg, crpxl, mdst, mot lt - m gy brn, predly crpxl, micxl ip, mdst, no por, tr of sy calc lam, tr of diam pyr

LS: m brn crpxl mdst, mnr mot lt - m brn, crpxl mdst, tight

LS: aa, tr of SH lt gy, fis, plty, mnr diam pyr

LS: m brn, mot lt - m brn, dk gy brn, crpxl, mdst, no por

ANH: lt bl gy, clyy, com diam pyr



pyr

SH: lt gy, wxy, calcs - anhylic, abnt nodr and dism pyr

LS: lt brn, mot lt - m brn, dk gy brn ally arg, predly crpxl, mdst, no por

LS: mot lt - m brn, mhr dk brn, crpxl, mdst, tight, tr of dism pyr

LS: mot lt brn, lt - m brn, crpxl, mdst, cin, no por

LS: lt brn, mot lt - m brn, crpxl, mdst, cin, tr micxl, tight

LS: lt brn, mot buff - lt brn, crpxl, mdst, cin, no por

LS: ss, tr of SH blk, calcs, fls, pity

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 89-02-15 06:00
Yr-Mon-Day-TimeWELL NAME PARA ETAL ARROWHEAD LOCATION 0-15-60°30'N 123°02'W
Day 29 Depth 2870 Metres last 24 hr 65 Rotating hrs 11.25
Activity at report time Drilling Arrow

DRILLING MUD PROPERTIES AT SHAKERS/SUCTION/PIT

Wt 10.10 Vls WL Gels 1.4/1.5 Solids 13.6 % PV 12.0 YP 1.44 pH
Oil % Sand 10.6 % Cake 1.0 PPMCL 450000 PPMCa 360000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Duff Cond.		
				WT	RPM							T	D	G
7	156	REED EXPS 1H	man 577	1700	15/80		65	65	11.25	11.25	5.7		0	B

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS.	
	1	2	3	STROKE	SPM	LINER	m/MIN	DP	DC			kPa	
7	15.9	15.9	15.9	202	40	100	1363					4500	

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

12	at	2854 m		at		m
	at			at		m
	at			at		m
	at			at		m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH		WEIGHT kg	OPERATION		TODAY	CUM.
			m	in					
B.T.		156	.20			1. Drilling		11.25	
B.T. SUB		120	.79			2. Trips		.50	
FLOAT SUB		124	.94			3. Rig Service		.50	
21 - DRILL COLL		119	194.15			4. Deviation Surveys		2.75	
6 - HWOP		89	55.18			5. Ream & Cond. Hole			
1 - STRING FLOW SUB		123	.94			6. Mix & Cond. Mud Displace H.O.P.		2.50	
						7. Circulation		3.0	
						8. Rig Repair			
						9. Run Casing & Cement			
						10. Fishing			
						11. Logging			
						12. Coring			
						13. Formation Testing			
						14. Waiting on:			
						15. Nipple Up & Test BOPS			
						16. Drilling Out		3.25	
						17. Lost Circ.			
						18. Laying Down DP & BOP's			
						19. Plug & Abandon			
						20. Rig up - Tear out			
						21. B.O.P. Over		.25	
						TOTAL		24	

COSTS

DAILY 35307
CUMMULATIVE 1693172

SUPERVISOR

C. SANDOVALS

PARA-ORL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99.02.15.0600

Yr - Mon - Day - Time

WELL NAME PARA FTH ARROWHEADLOCATION 0-15

OPERATIONS DETAIL:

15

FINNISH PICKING UP DRILL PIPE.

DRILL OUT FROM COLLAR CEMENT & FLOW SHOE.

DRILL AHEAD TO 2809m.

CIRC HOLE CLEAN (HOLD SAFETY MANNING)

DISPLACED HOLE TO NITROGEN & CHECK ALL EQUIPMENT & FLOW RATES

DRILLED AHEAD W/ NITROGEN SANDER SYSTEM TO 2844m

CIRC HOLE CLEAN & SURVEY THIS RUN.

DRILLED AHEAD W/ NITROGEN SANDER TO 2467m (CIRC HOLE & DISPLACED DR SURVEY)

DRILLING AHEAD @ 0600 Hrs

WANT LIST:

WEATHER:

Clear-20

ROAD:

Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

SENT 3 JTS 177.8mm 38.2 Kds L80 820 LTC PLUS 2 JTS 177.8mm 38.6 Kds
BACK TO STOCK SITE BASE CAMP W/ PICKUP TRUCK. (TRANSFERRED)

PARA-DRL_RPT2.XIS



FIELD SERVICE REPORT "OIL MUD"

DATE 2/15/99		CHECK NUMBER 24	
SPUD DATE 1/17/99		DAYS FROM SPUD 29	
PRESENT ACTIVITY		HOLE SECTION	
OPERATOR		CONTRACTOR	
PARAMOUNT RESOURCES		PRECISION DRILLING	
REPORT FOR: Mr. GERRY SANDERS		REPORT FOR: Mr. PETE HUSTON	
WELL NAME AND LOCATION: PARAMOUNT BERKLEY(O-15)		RIG NO. 507	
60 - 24 - 54 - N W M		PROVINCE NWT	

BIT RECORDS		DRILLING ASSEMBLY (ID(mm)-Len.(m))		HOLE or CASING (ID(mm)-WOG-Len.(m))		CASING PROGRAM (ID(mm)-Len.(m))		ANNULAR VELOCITY (m/min-Flow-Dep.(m))		PUMP PERFORMANCE	
BIT NO.	1	PIPE 72.0	101.0	2021	181.7	2020	Cased	36.9	LA 2021	PUMPS 1-2	MODEL
SIZE mm	156	PIPE					Surf	32.2	LA 2076	LINEAR 152 / 203	140 / 203
TYPE	15.6	HWT	62.8	88.0	55		Warm	49.1	LA 2805	DISPLCMT PER STR m³	0.0105
N O S I Z Z L E mm	15.9	DC	57.2	119.0	184		Warm	57.8	LA 2870	STROKES PER MIN	64
		DC					Low			OUTPUT m³/min	0.462
		DC			188.0	85	Prod			PRESSURE kPa	4500
		MUD SYSTEM VOLUMES m³	OPEN HOLE	ANN	CSG. CAP.	PIPE CAP.	TANK	TOTAL	VOL DUMPED	DIL RATE L/min	
			1.2	35.9	57.8	11.3	98.5	106.1			

DRILLING AND SOLIDS CONTROL EQUIPMENT								VS READING		CIRCULATION	
SHAKER 1	SHAKER 2	DESANDER	DESILTER	CENTRIFUGE	CENTRIFUGE	Temp	800	27	800	27	
TYPE	TYPE	TYPE	TYPE	TYPE	TYPE		300	13			
SWACO	SCREEN SIZE	SCREEN SIZE	UP DENS kg/m³	UP DENS kg/m³	COYOTE	COYOTE	200	11			
SCREEN SIZE	SCREEN SIZE	SCREEN SIZE	UP DENS kg/m³	UP DENS kg/m³	UP DENS kg/m³	UP DENS kg/m³	100	7			
SCREEN SIZE	SCREEN SIZE	SCREEN SIZE	UP RATE L/min	UP RATE L/min	UP RATE L/min	UP RATE L/min	80				
SCREEN SIZE	SCREEN SIZE	SCREEN SIZE	UP RATE L/min	UP RATE L/min	UP RATE L/min	UP RATE L/min	60				
SCREEN SIZE	SCREEN SIZE	SCREEN SIZE	HOURS RUN	HOURS RUN	HOURS RUN	HOURS RUN	5	2			
SCREEN SIZE	SCREEN SIZE	SCREEN SIZE	HOURS RUN	HOURS RUN	HOURS RUN	HOURS RUN	3	1.5			

DEPTH (m)	2806	HTHP FLT amp	14,800	F.A.C. g/m³	0	OL LOSS ON CUT	0.00%	TRUE VERT. DEPTH	2870
HRS. ON BIT	10.00	Pressure/Temp	350/100	F.A.C. CUTTINGS	0	DL LOSS ON CENIT	0.00%	MORE/NOTAL REACHED	0
DRILL RT. m/h	12	FLT CAKE mm	1.000	REMARKS: THIS DRILLING PROBLEMS: HOLE CONDITIONS, BRIDGE, FILL, MAKE-UP WATER, MUD/RT DEPTH(DATE)				DRAW UP 5m	
RPM	80	GULFIDEER mg/L	0.000					DRAW DOWN 5m	
FORCE ON BIT kN	6000	N10 CC	7.0						
NOZZLE VEL m/sec	12.93	VERSESTATE EC	1.8						
BIT PRESS LOSS kPa	93.51	S. NITRATE CC	0.90						
H.A.P. m/hour	0.00	LINE kg/m³ (Mud)	25.84						
M.P.R. @ BIT	2.08	Ca mg/L (Wp)	380000.0						
		Ca(NO3)2 mg/L (Wp)	0.0						
		Ca(NO3)2% (Wp)	0.0%						
		NO3 mg/L (Wp)	0.0						
		Cl mg/L (Wp)	480000.0						
		CaCl2% (Wp)	41.3%						

TIME 24 hr	3:30	INVERT VOLUME CONTROL	
MEASURED DEPTH m	2870	PREVIOUS ACTIVE S.	(1) 106.1
FLOWLINE TEMP °C		INVERT ADD.	(2) 0.0
DENSITY kg/m³	1010	DIESEL ADD.	(3) 0.0
MUD STS. WIGHTED		BRINE ADD.	(4) 0.0
GRADIENT kPa/m	9.908	PRODUCT ADD.	(5) 0.0
HYDROSTATIC kPa @ DEPTH	27802	INVERT REC.	(6) 0.0
S.C.D. kg/m³	1041	TOTAL ACTIVE (1+2+3+4+5+6)	(7) 106.1
ANN PRESS LOSS kPa	878	ACTUAL PRESENT VOL.	(8) 106.1
FUNNEL VISC. s		24 HOUR LOSS (7-8)	(9) 0.8
PLASTIC VISC. mPa.s	12.00	PREV LOSS - INVERT REC.	52.4
YIELD POINT Pa	1.44	TOTAL LOSS - INVERT REC.	53.4
GEL STRENGTH Pa 10s/10 min	1.0	INVERT DEL.	238.0
N	0.600	INVERT STORED	100.0
K Pa.s	0.34	DIESEL DEL.	52.0
SAND P	0.008	DIESEL STORED	21.0
		BRINE STORED	0.0

REMARKS: 02/14/99 - Finish picking up pipe, drill float and shoe track to 2806m, drill 156mm hole to 2809m, circulate hole clean and switch over to a closed air/nitrogen system. Drill 156mm hole from 2808m to 2853m. Progress 45m.			
RECOMMENDATIONS:			
Being the system is closed and they are circulating through the 400 bbl tanks, no mixing can be done at this time.			
Don't get any water like usual in the invert that's in the rig mud tanks.			
Thanks.....			
The 10m³ of Invert was a inventory correction from Feb 01/99.			
The mud report computer program isn't set up for air drilling as it shows 100% mud filling the annulus at all times which it doesn't.			

MATERIALS ADDED SINCE LAST CHECK			
Code	Size	Product	Qty Date
5090	m³	Carbotech Invert	10 2/14/99

B.H.I. T.S.R.	Kath Guthrie	PHONE	(403) 755-8313	MOBILE	(403) 567-5323
B.H.I. TRUCKER	Fortnite Trucking Ltd	WAREHOUSE	Fort Nelson	PHONE	(250) 774-6100
PRODUCT COST SINCE LAST CHECK		\$4,150.00		PRODUCT COST TO DATE \$34,849.75	
TOTAL SERVICES COST TO DATE		\$13,000.00		TOTAL COST TO DATE \$47,849.75	

CONSIDERATION OF THE FURNISHING OF THIS REPORT AND QUAL. SUGGESTIONS, IT IS AGREED THAT NO RECOMMENDATIONS MADE HEREON SHALL BE CONSTRUED AS AUTHORIZING THE FRAGMENT OF ANY VELD PATENT, AND IT IS AGREED THAT BAKER HUGHES INTER. SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE FURNISHING OF THIS REPORT AND ALL SUGGESTIONS AND IS TO BE HELD HARMLESS.

NOTE: Wp = WATER PHASE, MUD = WHOLE MUD, LA = LAMINAR FLOW, TR = TRANSITIONAL FLOW, TU = TURBULENT FLOW

02/15/99 MON 09:11 FAX 403 266 6032

Company: Paramount Resources
Location: e-15
From: 12/02/99
Company Rep: G. Sanders



A PLAINS ENERGY Services Company
Unit No: Gemini 3

Date Printed: 02/15/99
Test Operator: M. Remanick
Operation: UBO
Job No: ROZZ7

Date	Time	Well Depth m	Inlet Press kPa	HP Sep Gas Flow 10 ³ m ³ /d	LP Sep Gas Flow 10 ³ m ³ /d	Total Gas Rate 10 ³ m ³ /d	Total Gas Count 10 ³ m ³	HP Sep Pressure kPa	LP Sep Pressure kPa	IP m ³ /Min	Field Inj Flow Rate l/min	Surface Vessel Totals m ³	Net Gas Curves 10 ³ m ³	Surface Totals +/-	Inlet Mud kg/hr	Outlet Mud kg/hr	Net Gas Prod 10 ³ m ³ /d
02/14/99	05:00	0.00	88	0	0	0.00	0.43	0	26.77	0.00	0.00	0.00	0				0
Comments: PIPE ON BOTTOM																	
02/14/99	06:30	0.00	88	0	0	0.00	0.43	0	26.12	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	08:00	0.00	88	0	0	0.00	0.43	0	27.15	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	08:30	0.00	0	0	0	0.00	0.44	0	25.86	0.00	0.00	0.00	0				0
C Info:																	
02/14/99	08:50	0.00	11	0	0	0.00	0.44	0	26.16	0.00	0.00	0.00	0				0
Comments: START TO DRILL OUT SHOE																	
02/14/99	07:00	0.00	0	0	0	0.00	0.44	0	25.21	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	07:30	0.00	11	0	0	0.00	0.44	0	24.56	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	08:00	0.00	0	0	0	0.00	0.44	0	23.59	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	08:30	0.00	0	0	0	0.00	0.45	0	22.62	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	09:00	0.00	0	0	0	0.00	0.45	0	22.30	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	09:30	0.00	11	0	0	0.00	0.45	0	22.30	0.00	0.00	0.00	0				0
Comments: 11:00 SAFETY MEETING																	
02/14/99	11:30	0.00	0	0	0	0.00	0.46	0	20.36	0.00	0.00	0.00	0				0
Comments:																	
02/14/99	12:00	0.00	11	0	0	0.00	0.46	0	19.72	30.00	300.00	0.00	0				0
Comments: START PUMPING IP @ 30m ³ /min PUMP FLUID @ 300L/min																	
02/14/99	12:10	0.00	0	0	0			0	0	0.00	0.00						
C Info: IP DOWN & FLUID DOWN																	
02/14/99	12:23		0	0	0			0	0	30.00	300.00						
Comments: PUMPING IP @ 30m ³ /min & FLUID @ 300L/min																	
02/14/99	12:30		0	0	0			0	0	30.00	300.00	100.00					
Comments:																	
02/14/99	13:00		0	0	0			0	0	30.00	300.00	100.00					
C Info:																	
02/14/99	13:30		0	0	0			0	0	30.00	300.00	100.00					
Comments:																	

Company: Paramount Resources
Location: e-15
From: 120298
Company Rep: G. Sanders

ENTEST CORP.

A PLAINS ENERGY Services Company
Unit No: Gemini 3

Date Printed: 02/15/99
Test Operator: M. Romanish
Operation: USD
Job No: R0227

Date	Time	Well Depth m	Inlet Pressure kPa	HP Sep Gas Flow 10 ³ m ³ /d	LP Sep Gas Flow 10 ³ m ³ /d	Total Gas Rate 10 ³ m ³ /d	Total Gas Current 10 ³ m ³ /d	HP Sep Pressure kPa	LP Sep Pressure kPa	SP m/min	Fluid In Flow Rate m ³ /d	Surface Vessel Total m ³	Net Gas Current 10 ³ m ³ /d	Surface Total 10 ³ m ³ /d	Inlet Mud kg/m ³	Outlet Mud kg/m ³	Net Gas Prod 10 ³ m ³ /d
02/14/99	13:31		0	0	0			0	0								
Comments: DIVERT FLUID TO ENTENT N° & FLUID TO SURFACE																	
02/14/99	14:00	2808.00	546	4	0			0	0	30.00	300.00	108.88					
Comments:																	
02/14/99	14:04	2808.00	0	0	0			0	0								
Comments: START DRILLING																	
02/14/99	14:39	2814.00	546	4	0			0	0	30.00	300.00	110.65					
Comments:																	
02/14/99	14:42		0	0	0			0	0								
Comments: SAMPLE TAKEN @ 2810m																	
02/14/99	15:00	2819.00	601	51	0			0	0	30.00	300.00	109.93		0			
Comments: SURFACE TOTAL MAGIC NUM #108.93																	
02/14/99	15:02	2819.00	601	51	16	42.39	8.05	0	0	0.00	0.00	108.83		0			
Comments: SAMPLE TAKEN @ 2819/ KELLY DOWN N° & FLUID DOWN FOR CONNECTION																	
02/14/99	15:18	2819.00	601	51	16	42.00	8.05	0	0	30.00	300.00	109.83		0			
Comments: CONNECTION COMPLETE N° & FLUID PUMPS ON																	
02/14/99	15:30	2820.00	470	34	0	41.71	4.75	0	0	30.00	300.00	108.55		-68			
Comments:																	
02/14/99	15:53	2818.00	601	34	16	42.00	8.05	0	0	30.00	300.00	108.36		-68			
Comments: SAMPLE TAKEN @ 2820																	
02/14/99	16:00	2825.00	601	24	0	41.71	4.75	0	0	30.00	300.00	108.83		-3.1	0.910		
Comments:																	
02/14/99	16:28	2828.00	601	34	16	42.00	8.05	0	0	30.00	300.00	108.83		-3.1			
Comments: SAMPLE TAKEN @ 2825/ KELLY DOWN																	
02/14/99	16:30	2828.00	547	42	0	41.71	4.75	458.52	88.98	0.00	0.00	111.83	0	2.46			0
Comments: SHUT DOWN N° & FLUID																	
02/14/99	16:40	2830.00	525	41	0	41.00	5.02	487.14	67.55	30.00	300.00	111.83	0	2.46			0
Comments: START N° & FLUID																	
02/14/99	17:00	2831.00	514	12	0	11.60	5.27	484.72	97.28	30.00	300.00	108.85	0	-73			0
Comments:																	
02/14/99	17:19	0.00	711	58	10	88.63	5.58	561.94	122.17	30.00	300.00	108.85	0	-73			25.430
Comments: SAMPLE TAKEN @ 2830																	
02/14/99	17:30	2835.00	613	41	0	41.25	5.94	524.02	94.70	30.00	300.00	108.85	0	-73			0
Comments: FPS - 0 PPM																	
02/14/99	17:51	2836.00	658	31	23	54.14	6.54	487.14	137.04	30.00	300.00	110.83	0	1.85			10.940
Comments: KELLY DOWN / WORK STRING																	

Page: 2

02/15/99 MON 09:12 FAX 403 266 8032

Company: Paramount Resources
 Location: o-15
 Date: 12/02/99
 Company Rep: G. Sanders

ENTEST CORP.

A PLAINS ENERGY Services Company
 Unit No: Gemini 3

Date Printed: 02/16/99
 Test Operator: M. Romanik
 Operation: UBO
 Job No: RO227

Date	Time	Well Depth ft	Inlet Press kPa	HP Sep Gas Flow 10 ³ m ³ /d	LP Sep Gas Flow 10 ³ m ³ /d	Total Gas Rate 10 ³ m ³ /d	Total Gas Currn 10 ³ m ³	HP Sep Pressure kPa	LP Sep Pressure kPa	N ₂ m ³ /min	Fluid Inj Flow Rate l/min	Surface Vessel Totals m ³	Net Gas Currn 10 ³ m ³	Surface Totals m ³	Inlet Mud kg/min	Outlet Mud kg/min	Net Gas Prod 10 ³ m ³ /d
02/14/99	17:50	2838.00	503	27	18	44.83	8.74	439.58	131.87	30.00	300.00	116.93	0	1.55			1.730
Comments: SAMPLE TAKEN @ 2838																	
02/14/99	18:00	2838.00	514	28	18	44.14	8.78	418.87	122.48	30.00	300.00	110.93	0	1.79		1.000	.940
Comments:																	
02/14/99	18:02	2838.00	482	22	18	38.18	8.81	427.49	122.48	0.00	0.08	111.17	0	1.79			0
Comments: N ₂ & FLUID PUMPS DOWN FOR CONNECTION																	
02/14/99	18:08	2838.00	470	21	14	35.34	8.88	418.87	117.97	30.00	0.00	116.93	0	1.79			0
Comments: HP'S DRILL CLOSE E.S.D.																	
02/14/99	18:16	2838.00	418	17	0	17.17	7.13	394.74	90.50	30.00	300.00	110.93	0	1.79			17.170
Comments: CONNECTION COMPLETE N ₂ & FLUID PUMPS ON / DRILL AHEAD																	
02/14/99	18:30	2840.00	273	0	21	20.84	7.28	280.29	121.52	30.00	300.00	111.17	0	1.3			0
Comments:																	
02/14/99	18:00	2848.00	788	71	0	70.88	7.78	578.73	102.13	30.00	300.00	110.88	0	.79			27.880
Comments:																	
02/14/99	19:04	2849.00	802	55	3	57.80	7.88	488.18	108.88	30.00	300.00	110.88	0	.78			14.800
Comments: SAMPLE TAKEN @ 2849m																	
02/14/99	19:30	2847.00	648	45	0	45.47	8.51	559.50	94.38	30.00	300.00	107.21	0	-2.17			2.270
Comments:																	
02/14/99	19:44	0.00	547	38	0	37.80	8.89	470.58	98.31	30.00	300.00	107.21	0	-2.17			0
Comments: SAMPLE TAKEN @ 2848m																	
02/14/99	20:00	2848.50	547	38	0	38.73	9.29	475.78	111.18	30.00	300.00	107.25	0	-2.13		1.000	0
Comments: WORK DRILL STRING																	
02/14/99	20:20	0.00	613	43	0	43.11	9.78	648.15	98.28	0.00	300.00	107.25	0	-2.13			0
Comments: SHUT DOWN N ₂ PUMP FOR SURVEY / CONTINUE PUMPING FLUID TO OVERBALANCE DRILL STRING																	
02/14/99	20:30	2848.51	591	48	0	47.95	10.02	534.38	84.30	0.00	0.00	108.05	0	-3.33			5.110
Comments: SHUT DOWN FLUID PUMP FOR SURVEY / GRINDOUT - 0.4% SOLIDS, 0.8% SEDIMENT, 99% INVERT																	
02/14/99	21:00	2848.51	317	12	0	11.98	10.54	320.82	70.14	0.00	0.00	108.44	0	.08			11.980
Comments:																	
02/14/99	21:30	2848.51	308	7	0	7.42	10.70	296.48	80.15	0.00	0.00	108.44	0	.08			7.420
Comments:																	
02/14/99	22:00	2848.51	284	0	0	0.00	10.71	274.08	83.05	0.00	0.00	108.44	0	.08		1.000	0
Comments: CONNECTION																	
02/14/99	22:10	2848.51	283	0	0	0.00	10.71	268.58	80.80	0.00	300.00	108.44	0	.08			0
Comments: START FLUID PUMP @ 300L/min																	
02/14/99	22:30	2848.51	230	0	0	0.00	10.71	217.19	76.92	30.00	300.00	107.44	0	-1.94			0
Comments: START PUMPING N ₂ @ 30m ³ /min / DRILL AHEAD																	

Page 3

P.45

74%

403 266 6032

FEB-15-1999 09:20

Company: Paramount Resources
 Location: 0-15
 From: 12/02/98 To:
 Company Rep: G. Sanders

ENTEST CORP.

A PLAINS ENERGY Services Company
 Unit No: Gemini 3

Date Printed: 02/16/99
 Test Operator: M. Roman
 Operation: UBO
 Job No: R0227

Date	Time	Well Depth m	Inlet Press kPa	HP Sep Gas Flow 10 ³ m ³ /d	LP Sep Gas Flow 10 ³ m ³ /d	Total Gas Rate 10 ³ m ³ /d	Total Gas Currn 10 ³ m ³	HP Sep Pressure kPa	LP Sep Pressure kPa	N ² m ³ /d	Fluid Inj Flow Rate m ³ /min	Surface Vessel Totals m ³	Net Gas Currn 10 ³ m ³	Surface Totals +/-	Inlet Mud kg/m ³	Outlet Mud kg/m ³	Net Gas Prod 10 ³ m ³ /d
02/14/98	23:00	2850.00	391	0	0	0.00	10.71	348.20	11.84	30.00	300.00	99.08	0	-10.3			0
Comments:																	
02/14/98	23:27	2850.00	306	12	0	12.11	17.03	306.63	34.91	30.00	300.00	99.08	0	-10.9			0
Comments: SAMPLE TAKEN @ 2850m																	
02/14/98	23:30	2851.00	284	0	0	0.00	11.04	277.52	39.11	30.00	300.00	97.82	0	-11.76			0
Comments:																	
02/15/98	00:00	2854.00	722	69	0	69.17	11.76	636.06	32.32	30.00	300.00	107.71	0	-1.67	1.000	1.000	25.620
Comments: H ₂ S READING = 0 ppm																	
02/15/98	00:30	2857.00	481	38	0	38.03	12.56	399.97	64.36	30.00	300.00	107.18	0	-2.22			0
Comments: GRINDOUT = 0.4% SOLIDS, 0.2% SEDIMENT, 99.4% INVERT																	
02/15/98	00:44	2857.00	547	38	0	37.87	12.88	446.46	62.09	30.00	300.00	107.16	0	-2.22			0
Comments: SAMPLE TAKEN @ 2855m																	
02/15/98	00:50	2858.00	492	38	1	38.65	13.02	408.53	101.49	30.00	300.00	107.16	0	-2.22			0
Comments: KELLY DOWN / WORK STRING																	
02/15/98	01:00	2858.00	589	51	0	51.34	13.29	467.14	68.48	0.00	0.00	110.27	0	.89			6.140
Comments: SHUT DOWN FLUID PUMP / SHUT DOWN NP PUMP																	
02/15/98	01:10	2858.00	405	50	0	50.15	13.58	267.16	69.17	30.00	300.00	110.27	0	.89			7.190
Comments: START PUMPING NP @ 30m ³ /min / START FLUID RATE @ 300L/min / CONNECTION MADE / DRILL AHEAD																	
02/15/98	01:30	2861.00	241	28	0	27.69	14.03	175.19	77.25	30.00	300.00	106.81	0	-3.77		1.000	0
Comments:																	
02/15/98	01:58	2862.00	263	33	0	33.27	14.58	167.89	55.91	30.00	300.00	108.81	0	-2.77			0
Comments: SAMPLE TAKEN @ 2860m																	
02/15/98	02:00	2864.00	328	37	0	37.26	14.67	229.26	100.52	30.00	300.00	107.88	0	-1.5		1.000	0
Comments:																	
02/15/98	02:30	2867.00	328	40	0	42.13	15.50	210.30	97.61	30.00	300.00	108.26	0	-1.2		.980	0
Comments: GRINDOUT = 0.2% SOLIDS, 0.8% SEDIMENT, 99% INVERT																	
02/15/98	02:35	2867.00	338	43	0	43.04	15.65	236.15	90.60	30.00	300.00	108.26	0	-1.2			0
Comments: SAMPLE TAKEN @ 2866m / KELLY DOWN / CIRCULATE																	
02/15/98	03:00	2867.00	372	43	0	43.70	16.24	227.54	52.38	30.00	300.00	105.91	0	-3.47			0
Comments:																	
02/15/98	03:10	2867.00	308	35	0	41.16	16.49	170.65	108.27	0.00	0.00	105.91	0	-3.47			0
Comments: SHUT DOWN NP PUMP / SHUT DOWN FLUID PUMP FOR SURVEY																	
02/15/98	03:30	2867.00	252	32	12	44.71	16.98	168.93	117.85	0.00	0.00	105.00	0	-1.38			44.060
Comments:																	
02/15/98	04:00	2867.00	120	10	0	10.34	17.40	98.25	100.52	0.00	0.00	108.00	0	-1.38			16.340
Comments:																	

ENTEST Corp.

Company: Paramount Resources
 Location: 9-15
 Pressure: 1200.00
 Company Name: G. Sanders
 Test: T

4 PLANT ENERGY Services Company
 Unit No: 000113

Date Printed: 02/16/99
 Test Operator: M. Bernier
 Operator: UBO
 Job No: R0227

Date	Time	Well	Depth	Asset	IP Seg	LP Seg	Total	Total	IP Seg	LP Seg	IP	Fluid	Surface	Net Gas	Surface	Initial	Output	Net Gas
					Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
					Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
					157714	157714	157714	157714	157714	157714	157714	157714	157714	157714	157714	157714	157714	157714
02/15/99	04:30	2867.00	88	0	0	0	0.10	17.85	68.19	68.52	0.00	0.00	108.00	0	-1.38			6.100
Comments: CONNEXION																		
02/15/99	04:37	2867.00	88	4	0	0	3.88	17.57	68.55	73.88	0.00	0.00	108.00	0				3.650
Comments: START FLUID PUMP @ 300 L/min																		
02/15/99	04:52	2867.00	77	3	0	0	3.21	17.60	53.44	60.12	0.00	0.00	300.00	0	-1.38			3.210
Comments: START PUMPING @ 300 L/min / DRILL AHEAD																		
02/15/99	05:00	2868.00	88	0	0	0	0.00	17.80	44.82	50.10	30.00	300.00	108.00	0	-3.38			0
Comments: IFS READING = 0.000																		

Geological Morning Report**Feb 15, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 29
Target Location: O-15

Date: Feb 15, 1999
Time: 06:00 hrs
Hours Drilling: 10

Depth: 2872m
Progress: 67m
Average ROP: 6.7m / hr

Formation: Slave Point

Operational Status: Drilling

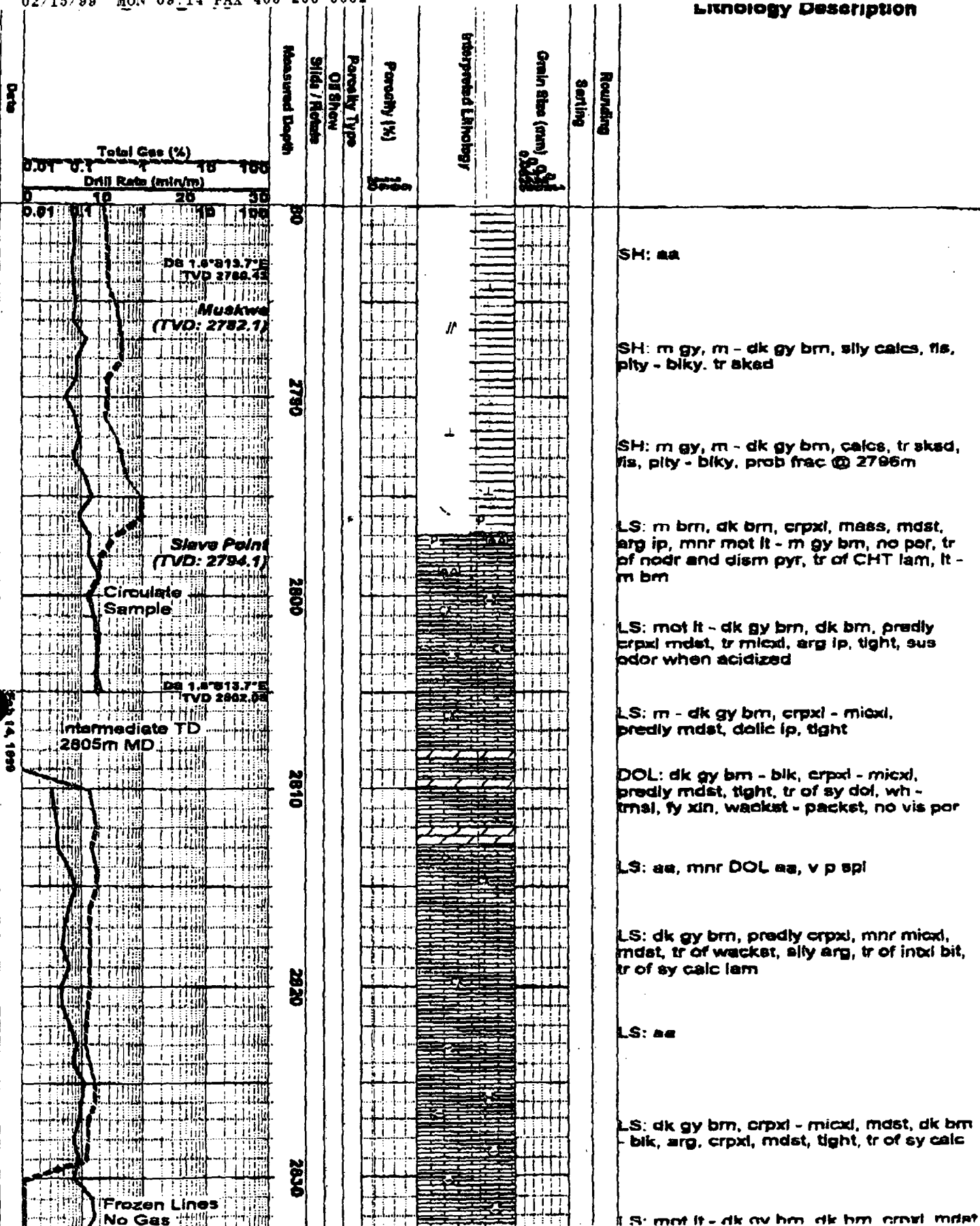
Operational Summary: Run in with drill pipe, Drill out cement and shoe with invert, Convert to Invert / N2 through P-tank, Drill and survey.

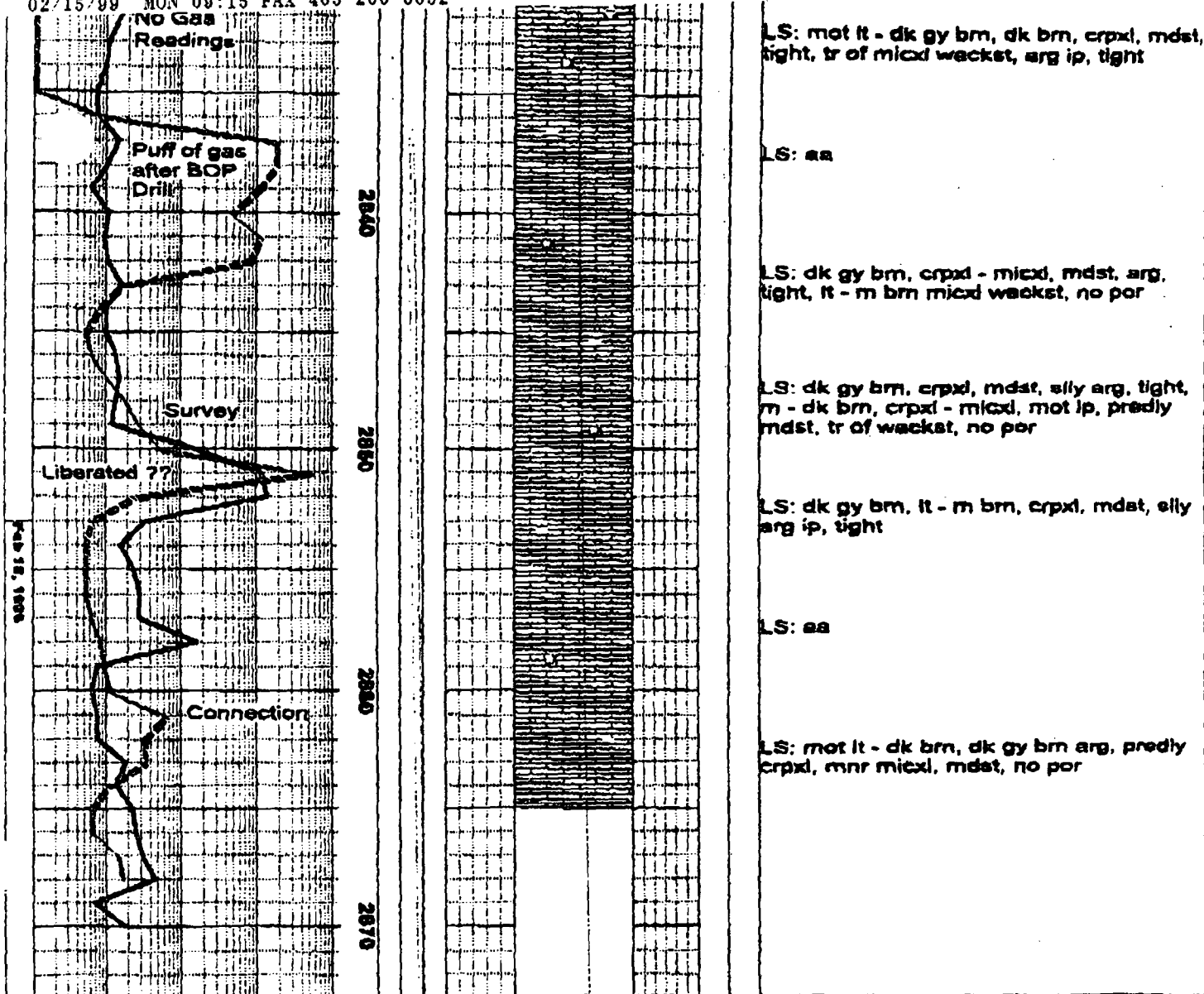
Remarks: All I've seen so far is tight dark Limestone. No significant gas readings. Puff of gas ahead of nitrogen after being shut in at 2838m for a BOP drill. Minor connection gas. Survey was 1.5° at 2854m, same as intermediate TD. Returns are surging so samples and gas sniffs are erratic.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Lithology Description





PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99 02 15 06:00
Yr - Mon - Day - TimeWELL NAME PARA ETAL ARROWHEAD LOCATION 0-15 66° 30' N 123° 02' W
Day 28 Depth 2790 Metres last 24 hr 0 Rotating hrs 0
Activity at report time PICKING UP 89m DRILLING STRING

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt Vls WL Cels Solids % PV YP pH
Oil % Sand % Cake PPMCL PPMCs

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	@ DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	C
7	156	Recon HPS (H) 449711												

CIRCULATION RECORD

BIT NO.	JETS - size			STROKE	PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m³/MIN	DP	DC			
7	15.9	15.9	15.9									

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

• at <u> </u> m	• at <u> </u> m
• at <u> </u> m	• at <u> </u> m
• at <u> </u> m	• at <u> </u> m
• at <u> </u> m	• at <u> </u> m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips		
					3. Rig Service	.25	
					4. Deviation Surveys		
					5. Room & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair slip & cut	.75	
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS	6.50	
					16. Drilling Out		
					17. Lost Circ.		
					18. Rig Up from Dr & BOPS DC	16.25	
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21. SAFETY MAX	.25	
					TOTAL	24	

COSTS

DAILY

60643

CUMMULATIVE

1637865

SUPERVISOR

G SANDERS

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99 02 14 0600
Yr - Mon - Day - TimeWELL NAME PARA ERM ARROWHEADLOCATION 8-15- 60° 30' N 127° 02' W**OPERATIONS DETAIL:**

12

PRESSURE TESTED 20' HOLE HEAVY, CHOKER VALVES, KILL LINE, 14000 psi low
14000 psi high 10 min ok. PICKED UP 3 1/2 KELLY.PRESSURE TESTED UPPER & LOWER KILLY COPS 15000 psi low 35000 psi high
10 min ok. PRESSURE TESTED MANIFOLD VALVES & LINES 15000 psi low 35000 psi

14000 psi high 10 min ok. ACCUMULATOR CHECK 10500 psi. LEAK ON SYSTEM

AFTER CLOSING TOP & BOTTOM PIPES 2 min. Annular 1 HCB.

RECHARGE 2 min 38 SECS.

CHECK MOTOR KILLS ok.

RIG TO & PICK UP DRILL STRING

WANT LIST:WEATHER: Cloudy

- 17

ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRI_RPT2.xls


FALCON
PRESSURE TESTERS LTD.

Box 6820, Fort St. John, B.C. V1J 4J3

Telephone (250) 785-4540.

Fax: (250) 787-0712

OIL COMPANY

LOCATION

CONTRACTOR

DATE

Paramount Resources
O-15
PD-507
13/02/99
Lat 60° N 34' Long 123° 02'
ACCUMULATOR FUNCTION TEST

Starting Pressure					21300 kPa
Annular Pressure Drop					5300 kPa
Time to Close					9 Sec.
Pipe Rams Pressure Drop					3000 kPa
Time To Close					4 Sec.
Pipe Rams Pressure Drop					2000 kPa
Time To Close					4 Sec.
H.C.R. Pressure Drop					1500 kPa
Time To Close					21500 Sec.
Pressure Left on System					10800 kPa
Total Pressure Drop					10800 kPa
Recharge System F /	10800	to	21300	2 Min. / 38	Sec.
Precharge at	7000				kPa.
(2 (1)	2200	Psi.	(2)	2200	Psi.
(3)	2200	Psi.			

Remarks:

 Test Conducted By: Jim Stone

Observed By:

Observer#1

Gerry Sanders

Testers Comments:

Observer#2

Del Dingman

Company Reps. Comments:

Tester's Signature

Company Representative Signature

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 990213 0600
Yr - Mon - Day - TimeWELL NAME PARA ETAL ARROWHEAD LOCATION D-15 60°30'N 123°02'W
Day 27 Depth 2790 PWD Metres last 24 hr 6 Rotating hrs 0
Activity at report time PRESSURE TEST ENCEST LINE & ROTARY HEAD

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt _____ Vls _____ WL _____ Gels _____ Solids _____ % PV _____ YP _____ pH _____
Oil _____ % Sand _____ % Cake _____ PPMCL _____ PPMCa _____

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m³/MIN	DP	DCI			

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

	at	m		at	m
	at	m		at	m
	at	m		at	m
	at	m		at	m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID	OD	LENGTH	WEIGHT	OPERATION	TODAY	CUM.
	mm	mm	m	daN			
					1. Drilling		
					2. Trips		
					3. Rig Service		
					4. Deviation Surveys		
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS	24	
					16. Drilling Out		
					17. Lost Circ.		
					18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21.		
					TOTAL	24	
COSTS							
DAILY	46412						
CUMMULATIVE	1597222						
SUPERVISOR					G. SANDELS		

COSTS

DAILY 40412
CUMMULATIVE 1597222SUPERVISOR G. SANDELS

PARA-DRILL_RPT.xls

TR 2004

GENTRY SANDELS

10/15/99 09:18

10:11 09:18/01/20

FEB-15-1999 09:25

403 266 6032

93%

P.54

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-15 6600
Yr - Mon - Day - TimeWELL NAME PARA ESTH Annular Hole LOCATION 0-15

OPERATIONS DETAIL:

12

FINISHED NIPPLEING UP B.O.P STAG & ENTREST LINES.
 PRESSURE TESTED BIVIO RAMS w/ TEST PLUG. PRESSURED UP TO 1500 kPa LOW
 AND 3500 kPa HIGH 10 min OK.
 PULLED OUT TEST PLUG AND MADE UP TEST CUP ON SINGLE AND RAN IN
 TO TEST TUBING HANGER TO C/P HANGER CONNECTION & BOTTOM PIPE RAM.
 BOTTOM KILL LINE & BLEED OFF LINE VALVES TO 1500 kPa & 3500 kPa. 10 min OK.
 TRIED TO PRESSURE TEST TOP PIPE RAM. C/P TESTER FAILED - PULLED
 TEST CUP - MADE UP TEST PLUG AND REMOVED C/P PORT PLUG. RAN IN
 TO TUBING HANGER. PRESSURED UP TO 1500 kPa LOW & 3500 kPa HIGH
 TEST PLUG FAILED. PULLED TEST PLUG & ROTATING HEAD CHECKED. SEAL OK
 RERAN TEST PLUG. SAME RESULTS - DRAINED DOWN B.O.P STAG
 AND PULLED TEST PLUG. TURNED TEST PLUG OVER & RAN IN.
 PRESSURE TESTED TOP PIPE RAM & VALVES TO 1500 kPa LOW 3500 kPa HIGH
 OK. PRESSURE TESTED ANNULAR 1500 LOW 14000 kPa HIGH OK.
 PRESSURE TESTED CHECK VALVES - ROTATING HEAD, ENTREST LINES. PRESSURE
 NOT HOLDING TO ACCEPTABLE INT. PRESSURE TEST ENTREST LINES SUPERHEATED
 1500 LOW 14000 HIGH OK. PRESSURE TEST CHECK VALVES 1500 kPa LOW 14000 kPa
 HIGH OK.

WANT LIST:

WEATHER: Partly Cloudy -20ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

9" DRILLPISTONS & SUBS WERE RETURNED FROM RECEIPT 379.
 SENT 7 STABILIZERS (6-5" 1-17") BACK TO BASE CAMP & PICKUP TRUCK

PARA-DRL_RPT2.xls

70 2001

SANDERS SANDERS

10150000000

10:11 6600/PT/20

FOR 24 HR PERIOD ENDING 99-02-12 0600
Yr - Mon - Day - Time

WELL NAME PARA FINE ARROWHEAD LOCATION D-15 60° 30' N 123° 0' W
Day 26 Depth 2750 FATH Metres last 24 hr 0 Rotating hrs 0
Activity at report time NIROK US 8.0-P

Wt	Vis	WL	Gels	Solids	%	PV	YP	pH
Oil	%	%	Cake	PPMCL			PPMCA	

[illegible][illegible]

at	m	at	m	
at	m	at	m	
at	m	at	m	
at	m	at	m	

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips		
					3. Rig Service		
					4. Deviation Surveys		
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation		
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		

15. Nipple Up & Test BOPS	24
16. Drilling Out	
17. Last Circ.	
18. Laying Down DP & BOR's	
19. Plug & Abandon	
20. Rig up - Tear out	
21.	

SUPERVISOR G. SANDERS

TOTAL	24
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PARA-DRL RPT. 8/8

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99 02 12 0600
Yr - Mon - Day - TimeWELL NAME PARA ETL ARROWHEAD LOCATION 0-15

OPERATIONS DETAIL:

15

NIPPLED DOWN 200' STACK - INSTALLED TUBING HANGER 1 219 SPOOL
 SET STACK DOWN ON SPOOL - ROTATING HEAD OUT GET LINED UP
 IN MIDDLE OF BEAM ON SUB. PINCH TOO LOW - PICK UP STACK
 CHANGE OUT SPOOLS - SET STACK BACK DOWN - PICK UP ROTATING
 HEAD - VERY CLOSE TO ROTARY TABLE. CLEARS BY 3 INCHES.
 NIPPLE UP VALVES KILL LINES - BLEED OFF LINES - FLOW LINE.
 HAD TO MODIFY SOME LINES. FLOW LINE - KILL LINE ETC.

WOULD MAKE IT A LOT EASIER IF SUB BASE WAS MODIFIED
 ON TOP SECTION. THERE IS A STUPID CROSS MEMBER THAT
 IS ALWAYS THE PROBLEM WHEN TRYING TO GET THE FLOW LINE OUT
 TO MUD TANKS. COULD BE MODIFIED QUITE EASILY - 1

WANT LIST: NEW SUB BASE FOR REG. ONE MORE FLOW MOTOR OR PUMPS
W/ MOTORS ON THEM

WEATHER: CLOUDY

-24

ROAD: GOOD

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

Got DEWALE ENGINE LICENSE FROM AEC FOR EXTRA 3000 (MAXIMUM 3000)
 DOWN - 1

PARA-DRL_RPT2.X15

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-02-11 0600
Yr - Mon - Day - TimeWELL NAME PARA RITH ARROWHEADLOCATION 0-15

OPERATIONS DETAIL:

1-

RAN 207 JTS OF 177.8mm L80 GRA LTC IPSCO C51 TO
2865m KB. FILLED C59 EVERY 10 JTS.

C59 WENT DOWN OK BUT WHEN NEAR BTM COULDN'T GET C59
TO MOVE UPWARD TAGGED BTM @ 2865m. COULDN'T MOVE PIPE
UP OR DOWN.

BROKE CIRC & CIRC W/ 1500 KPA PRESSURE SEEMED USUALLY
LOW. MIX 1.5% SAW DIRT IN PILL TANK AND PUMPED AROUND.

CIRC TIME 4 MIN LESS THAN THEORETICAL TIME.

MAKED CEMENT AS PER PROGRAM.

CEMENT JOB WENT WELL. A TRACE OF DIRT FLUSH TO SURFACE
WHEN PUG DOWN.

PUG DOWN W/ 3000 KPA OVER PUMPING PRESSURE

PUG DOWN @ 2120 Hrs 99-02-10

WANT LIST:

WEATHER: Clear

- 25

ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARAMOUNT RESOURCES LTD.

RUNNING AND CEMENTING
PRODUCTION CASINGO.D.: 177.8 MMWELL NAME: PARA ERIK ARROW HEADLOC: 0-15DATE: 99.02.10

K.B. ELEVATION _____

CSG. FLG: _____

TOTAL DEPTH (DRILLER) 2805 m

HOLE SIZE	<u>216</u>	#REF!	
DEPTH M	<u>2805</u>	#REF!	

CSG IN HOLE	<u>2807.07</u>	#REF!	
DEPTH SET	<u>2805.01</u>	#REF!	

MUD TYPE: INVERTWT: 1015 KG/M3VISC: 48

WL: _____

BOP'S

35000 kpa

RUNNING

POWER TONGS 7040TORQUE: MAX: 8890 NM NOM 7040 NM MIN 5270TIME PIPE START: 2200TIME ON BOTTOM 1200 TIME CIRCULATED 5:25 hrsFILL UP POINTS: Every 10 ITSBOTTOM BY CSG 2805mUP FROM KB: 2 m

REMARKS:

CSG STUCK ON BTM. Pulled 50000 down over spring w/ 1
80000 down worked P.D.S 2hrs No Luck
CEMENTED CSG on BOP Circ Press. SEEN ON USAL C/S at 21m
TRY ADDING 1.5% STAGGANT & Open Taps within 4 min aft the cement.

CEMENTING

CEMENT CO: NOUSCOOPERATOR: KEN DICKSONAR. TIME: 0600

TYPES & QUANTITY OF CEMENT:

24.6 T 1-1-26 - 19.26 59 T10 17T + HILMOL 40 F+ 1.0 R.6 + .3% D24 + 5% T10 + 1% SEPARATEHEIGHT TO BE CEMENTED 1186mFLUSH: 3m³ DIESEL 3m³ NOWFLUSHMIX TIME: START: 19:31FIN: 2014WT: 1689 kgCALCULATED DISP 57.32 MEASURED DISP: 57.3 m³START: 2021FIN: 2121DISPLACING FLUID INVERTMAX. PRESS 19000 kPa BUMP WI 3000 kPa

CEMENT RETURNS

NCLFLOAT OKWORKED CSG WHILE CMT NO

REMARKS:

LANDING

TIME LANDED: 0430 DATE: 99-02-11WT. STRING (LESS BLOCKS) dan 85000WT. LANDED IN SLIPS: 95000

dan

BOWL: 135/180SIZE: 135/180SERIES EG 1

SLIP & SEAL ASS:

V-G 100 Automatic V 60 F.

REMARK:

AGENT OF OPERATOR:

G. SANDERS

RUN & CMT PROD

PARAMOUNT RESOURCES LTD.

PRODUCTION CASING REPORT

O.D.: 177.8 MMWELL NAME: PARA EAL ARROWHEADLOC: 0-15DATE: 98-02-10

JTS ON LOC	MON LOC	CASING WT.	GRADE	RANGE	THREAD	T & C	MAKE	JTS. RUN	DEPTH LANDED	M RUN IN WELL
101	1377.44	38.69	L80	1	8RD	L7TC	IPSCO	101		1377.44
2	67.23	34.20	L80	1	8RD	L7TC	IPSCO	2		27.08
104	1427.41	38.69	L80	1	8RD	L7TC	IPSCO	104		1401.80

SHOE: MAKE: WEATHER FORD
 COLLAR: MAKE: WEATHER FORD
 LANDING JOINT (WHEN USED) LENGTH, M
 OVERALL LENGTH OF CASING STRING, M
 METERS UP FROM K.B. (SUBTRACT)
 SETTING DEPTH: LOG: 2804.7
 SHOE JOINT: OVERALL: 14.43 M (SUBTRACT)
 FLOAT COLLAR: LOG: M
 K.B. TO CASING FLG: 6.57 M

TYPE: FloatTYPE: Float

LENGTH, M

LENGTH, M

LENGTH, M

TOTAL, M

2.03 MDRILLER: 2805.12DRILLER: 2796.55MCUT OFF: 8.60 M

SHOE JOINT

CENTRALIZERS & TURBOLIZERS:MAKE: WEATHER FORD NUMBER 10

POSITIONS:

2797m 2777m 2750m 2700m
 1610m 1592m 1565m 1537m 1510m
 1483m

OF JOINTS WELDED: NIL**SCRATCHERS:**MAKE: NUMBER 0

POSITIONS:

REMARKS:

RAN 101 STS 38.69 kg/m L80 RBE1 8RD LTC IPSCO 1377.44m
 RAN 2 STS 34.20 kg/m L80 RBE1 8RD LTC IPSCO 27.08m
 RAN 104 STS 38.69 kg/m L80 RBE1 8RD LTC IPSCO 1401.80m
 LEFT OUT 3 STS 34.20 kg/m & 2 STS 38.69 kg/m L80 8RD LTC IPSCO 66.11m
 OVERALL LENGTH

OPERATORS REP:

G. SANDERS

PROD.CSG.RPT

PARAMOUNT RESOURCES LTD.

PIPE TALLY

DATE: 99-02-09

WELL NAME PARA ETAL ARROWHEAD

PAGE 2 OF 2

LOCATION 0-15

CONTRACTOR PRECISION 507

PIPE DESCRIPTION 177.8 mm. 38.69 KG/M GRADE L80 RANGE 1

CPLG LTC THREAD 3/4" MFG. IPSCO NEW OR USED NEW

TYPE OF STRING 2ND INTERMEDIATE TALLIED THREADS OFF

LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
1 1360	21 1360	41 1360	61 1113	81 1326	101
2 1312	22 1361	42 1360	62 1379	82 1347	102
3 1360	23 1357	43 1249	63 1380	83 1313	103
4 1361	24 1340	44 1363	64 1349	84 1369	104
5 1362	25 1357	45 1360	65 1360	85 1331	105
6 1361	26 1360	46 1361	66 1374	86 1382	106
7 1362	27 1335	47 1362	67 1399	87 1371	107
8 1358	28 1362	48 1245	68 1370	88 1375	108
9 1358	29 1365	49 1361	69 1368	89 1370	109
10 1361	30 1359	50 1358	70 1312	90 1368	110

TTL 1-10 13555	TTL 21-30 13546	TTL 41-50 13319	TTL 61-70 13404	TTL 81-90 13552	TTL 101-110
11 1359	31 1364	51 1180	71 1343	91 1385	111
12 1356	32 1360	52 1361	72 1367	92 1365	112
13 1361	33 1361	53 1361	73 1390	93	113
14 1359	34 1361	54 1361	74 1073	94	114
15 1360	35 1357	55 1362	75 1386	95	115
16 1360	36 1358	56 1362	76 1369	96	116
17 1361	37 1361	57 1360	77 1371	97	117
18 1361	38 1360	58 1360	78 1394	98	118
19 1360	39 1359	59 1362	79 1367	99	119
20 1360	40 1359	60 1028	80 1381	100	120

TTL 11-20 13597	TTL 31-40 13600	TTL 51-60 13097	TTL 71-80 13381	TTL 91-100 27.50	TTL 111-120
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TTL 01-20	TTL 21-40	TTL 41-60	TTL 61-80	TTL 81-100	TTL 101-120
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TOTAL 1-20 13555	PAGE 1 TOTAL 163287	Shoe= .40
TOTAL 21-40 13546	PAGE 2 TOTAL 1238.61	Float= .35
TOTAL 41-60 13379	FLOAT & SHOE .75	Shoe jt.= 13.54
TOTAL 61-80 13404	GRAND TOTAL: 2812.23	TOTAL JOINTS ON LOCATION
TOTAL 81-100 13552	REMARKS:	
TOTAL 100-120 27.50	JOINTS # 1 THROUGH 101 ARE 38.69 kg/m L80 LTC 8RD	
TOTAL 1-120	JOINTS # 102, 103, 104, 105, 106, ARE 34.2 kg/m L80 LTC 8RD.	
	JOINTS # 107 THROUGH 212 ARE 38.6 kg/m L80 LTC 8RD	
	LEFT OUT JOINTS # 104, 105, 106, 113, 168. SMALL LENGTH 66.11m	
	AGENT OF OPERATOR: G. SANDERS	

PARAMOUNT RESOURCES LTD.

PIPE TALLY

DATE: 99-02-09

WELL NAME PARA EIAL ARROWHEAD

PAGE 1 OF 2

LOCATION 0-15

CONTRACTOR PRECISION 507

PIPE DESCRIPTION 177.8 mm. 38.69 KG/M GRADE L80 RANGE 1

CPLG LTC THREAD 4.2 MFG. LPSCO NEW OR USED NEW

TYPE OF STRING 2ND INTERMEDIATE TALLIED THREADS OFF

LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
1 1370	21 1364	41 1370	61 1406	81 1370	101 1404
2 1368	22 1370	42 1419	62 1388	82 1392	102 1354
3 1370	23 1370	43 1286	63 1315	83 1374	103 1354
4 1370	24 1366	44 1369	64 1394	84 1394	104 1357
5 1383	25 1371	45 1364	65 1371	85 1371	105 1359
6 1375	26 1290	46 1371	66 1390	86 1340	106 1299
7 1372	27 1372	47 1372	67 1388	87 1368	107 1364
8 1333	28 1346	48 1329	68 1369	88 1320	108 1357
9 1356	29 1363	49 1300	69 1292	89 1370	109 1357
10 1382	30 1386	50 1382	70 1390	90 1370	110 1360

TTL 1-10 136.82	TTL 21-30 135.98	TTL 41-50 135.62	TTL 61-70 137.06	TTL 81-90 136.76	TTL 101-110 135.65
11 1401	31 1368	51 1356	71 1360	91 1388	111 1310
12 1394	32 1330	52 1390	72 1380	92 1403	112 1316
13 1368	33 1304	53 1371	73 1364	93 1218	113 1257
14 1368	34 1384	54 1380	74 1379	94 1148	114 1360
15 1387	35 1368	55 1369	75 1360	95 1387	115 1361
16 1371	36 1370	56 1384	76 1349	96 1400	116 1361
17 1365	37 1327	57 1370	77 1361	97 1373	117 1360
18 1367	38 1366	58 1376	78 1360	98 1370	118 1337
19 1369	39 1372	59 1370	79 1381	99 1369	119 1360
20 1316	40 1384	60 1362	80 1307	100 1403	120 1361

TTL 11-20 137.06	TTL 31-40 136.24	TTL 51-60 137.28	TTL 71-80 136.61	TTL 91-100 134.69	TTL 111-120 133.82
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TTL 01-20	TTL 21-40	TTL 41-60	TTL 61-80	TTL 81-100	TTL 101-120
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TOTAL 1-20 136.82 PAGE 1 TOTAL 1632.81

TOTAL 21-40 135.98 PAGE 2 TOTAL 136.24

TOTAL 41-60 135.62 FLOAT & SHOE 137.28

TOTAL 61-80 137.06 GRAND TOTAL: 136.61

TOTAL 81-100 136.76

TOTAL 100-120 135.65

TOTAL 1-120 133.82

TOTAL 1-120 1632.81

Shoe=

Float=

Shoe ft.=

TOTAL JOINTS ON LOCATION

REMARKS:

AGENT OF OPERATOR: G. SANDERS

PROD TALLY 2

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT**FOR 24 HR PERIOD ENDING 99-02-10 0600
Yr - Mon - Day - TimeWELL NAME PARA ETAL ARROWHEAD LOCATION 0-15 60°-36'N 123°04'Day 24Depth 2865Metres last 24 hr 0Rotating hrs 0

Activity at report time

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT
 Wt 1015 Vis 48 WL 14.0 Gels 1.0/25 Solids 7.0 % PV 170 YP 31 pH
 OH 96.4 % Sand 105 % Cake 20 PPMCL 266666.7 PPMCa 226666.7
BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
<u>6 R2</u>	<u>216</u>	<u>REXON P51A</u>	<u>194637</u>	<u>3</u>	<u>30</u>	<u>2565</u>	<u>0</u>	<u>269</u>	<u>0</u>	<u>48.25</u>		<u>1</u>	<u>4</u>	<u>1</u>

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	SPM	PUMP		ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3			LINER	m'/MIN	DP	DC			
<u>6 R2</u>	<u>11.9</u>	<u>11.9</u>	<u>11.9</u>	<u>863</u>	<u>105</u>	<u>152</u>	<u>1.1</u>	<u>44</u>	<u>84</u>	<u>87</u>		<u>7000</u>

DEVIATION SURVEYS**MUD & CHEMICALS ADDED**

at _____ m	at _____ m
at _____ m	at _____ m
at _____ m	at _____ m
at _____ m	at _____ m

BOTTOM HOLE ASSEMBLY**TIME ANALYSIS**

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
					1. Drilling		
					2. Trips	.50	
					3. Rig Service	.50	
					4. Deviation Surveys		
					5. Ream & Cond. Hole		
					6. Mix & Cond. Mud		
					7. Circulation	2.50	
					8. Rig Repair		
					9. Run Casing & Cement	9.50	
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS		
					16. Drilling Out		
					17. Lost Circ.		
					18. Laying Down DP & BOP's	10.25	
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21. SAFETY MEETING	.75	
					TOTAL	24.00	
</							

COSTSDAILY 129656
CUMMULATIVE 1275269

SUPERVISOR

G. SANDERS

PARA-DRL_RPT.zls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-02-10 0600
Yr Mon Day TimeWELL NAME PARA ETAL ALA WTHANLOCATION 0-15

OPERATIONS DETAIL:

15

FINISHED IN W/ BIT

CIRCULATE HOLE CLEAN

RIG TO & LAY DOWN DRILL PIPE & D.C. BREAK KEY.

RIG TO & RUN 177.8mm CSG

RIGGING IN ENTREST & CHANGING AIR

HAD DC ENERGY SOUR SERVICE 2 OF THE TANKS IN TANK FARM.
COMPASS TRANSFERRED DIESEL FROM SOUR SERVICE TANK TO NON SOUR
SERVICE TANK.HAVE TANKS SET UP TO PRODUCE INTO SOUR SERVICE AND
TO CIRCULATE FROM ENTREST TO SOUR SERVICE IN TANKS TO
SUCTION OF TWO PUMPS

WANT LIST:

WEATHER: CLEAR

- 29

ROAD: 0080

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99.02.09 0600
Yr - Mon - Day - Time

WELL NAME PARA ETAL Arrowhead LOCATION D-15 65°-30'N 123°0'W
 Day 23 Depth 2805 Metres last 24 hr 0 Rotating hrs 0
 Activity at report time Run in Hole w/ Bit to Lay down D.P. & DC.

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1015 Vis 48 WL 170 Gels 1.0/2.5 Solids 7.0 % PV 13.0 YP 4.7 pH
 Oil 96.4 % Sand .05 % Cake 2.0 PPMCL 26666.7 PPMCa 22666.7

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
6RA	216	Recon HWH	491087	3	76									

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m³/MIN	DP	DC			
6RA	11.9	11.9	11.9	203	165	152	7.1	44	84	57		

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

at m	at m	at m	at m
at m	at m	at m	at m
at m	at m	at m	at m
at m	at m	at m	at m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION		CUM.
					TODAY		
Bit		216	.25		1. Drilling		
Bit SUB		170	1.06		2. Trips	8.25	
3-DC		177	28.75		3. Rig Service	.25	
1- Drilling Jar		170	3.86		4. Deviation Surveys		
3-DC		171	28.33		5. Ream & Cond. Hole		
1.80 SUB		163	.58		6. Mix & Cond. Mud		
6 HWD		117	54.98		7. Circulation	6.50	
					8. Rig Repair		
					9. Run Casing & Cement		
					10. Fishing		
					11. Logging	8.50	
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOP's		
					16. Drilling Out		
					17. Lost Circ.		
					18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Tear out		
					21. Slip & Cut	.50	
					TOTAL	24.00	

COSTS

DAILY 32763
 CUMMULATIVE 1145613

SUPERVISOR

G SANDERS

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 97-02-09 0600
Yr - Mon - Day - TimeWELL NAME PARA ETAL ARROWTON LOCATION 0-15

OPERATIONS DETAIL:

12

Like & Cond. man.P.O.O.H. TO LOG Hole Good on trip outRig to & Log w/ WESTERN ARMS.RAN DOL - GR - HY - ZOL - CN - GR - XY CUL TVD. 2805m TO 1185m.Rig out Loggers -R.I.H. w/ BIT TO Lay Down D.P. & D.C.ENTERED & CANADIAN AIR RIGGING in EQUIPMENT

WANT LIST:

WEATHER:

Clear- 27

ROAD:

Fair

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

MOVED IN 3 AIR DRILLING UNITS.

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-08 0600
Yr - Mnd - Day - TimeWELL NAME PART 1711 ARROWHEADLOCATION 0-15 60° 24' 123°-02'Day 22Depth 2805Metres last 24 hr 7Rotating hrs 1.25Activity at report time Circ & Conn mud to Log.

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1010 Vls 51 WL 15 Gels 0/20 Solids 6.6 % PV 13.0 YP 9.6 pH
 Oil 97.5 % Sand 0.05 % Cake 2.0 PPMCL 4/000 PPMCa 26.000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	O	G
6	216	REAR HPTA	294071	116	20/15	2805	7	269	1.21	45.25	5.9	1	3	1

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	BRM	LINER	m/MIN	DP	DC			
6	11.9	11.9	11.9	203	145	53	1.1	44	84	57		7000

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

OIL GEL 554
 CARBON MUD 1.88L
 BARIUM 1554

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
BIT		216	2.5	
DR. SUB		17	1.06	
3-DC		177	28.75	
1-DRILLING STR.		170	3.86	
3-DC		171	28.31	
6-HWOP		117	34.98	
14.0		117	1.5	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	1.25	
2. Trips	14.75	
3. Rig Service	1.50	
4. Deviation Surveys	1.25	
5. Beam & Cond. Hole NEW CHW	2.5	
6. Mix & Cond. Mud	1.75	
7. Circulation	3.50	
8. Rig Repair <u>Stop & Cut</u>	1.5	
9. Mud Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on		
15. Mottle Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21. <u>ALL DR. TRAIL</u>	1.25	
TOTAL	24.00	

COSTS

DAILY 43707
 CUMMULATIVE 1112850

SUPERVISOR G. SANDAU

PARAM-RL-RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING: 99 02 08 1600
Mon - Day - Time

WELL NAME: PARA ETL ARDONTA

LOCATION: C-15-60°-24' 12" 2°

OPERATIONS DETAIL:

CIRC 21M HOLE SAMPLE - DRAWN TO 2865 m.
 CIRC. HOLE CLEAN.
 P.O.U. H. Pumped out 14 singles - REST OF TRIP PAR. HOLE
 DRAG 10-20000 sand.
 LAYED DOWN DIRECTIONAL TOOLS.
 LEFT OUT 3 STD. DRILL COLLARS.
 RIN W/ R. Picked up 26 singles. N's full in 21m.
 HOLE DRAG THE SAME AS BEFORE.
 CIRC & CONDITION MUD PRIOR TO LOGGING.

DIRECTIONAL PERSONNEL LEFT FOR EDMONTON LAST NIGHT.

WANT LIST:

WEATHER: LIGHT SNOW

-22

ROAD:

Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

HAULED IN AIR EQUIPMENT - SPOTTED BEST EQUIPMENT - STOOD UP.
 CLARE STAGE 1 BROUGHT IN 2 SASR SERVICES FOR 3AL TONES.

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 08, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 22
Target Location: O-15

Date: Feb 8, 1999
Time: 06:00 hrs
Hours Drilling: 1

Depth: 2805m
Progress: 7m
Average ROP: 7m / hr

Formation: Slave Point

Operational Status: Tripping

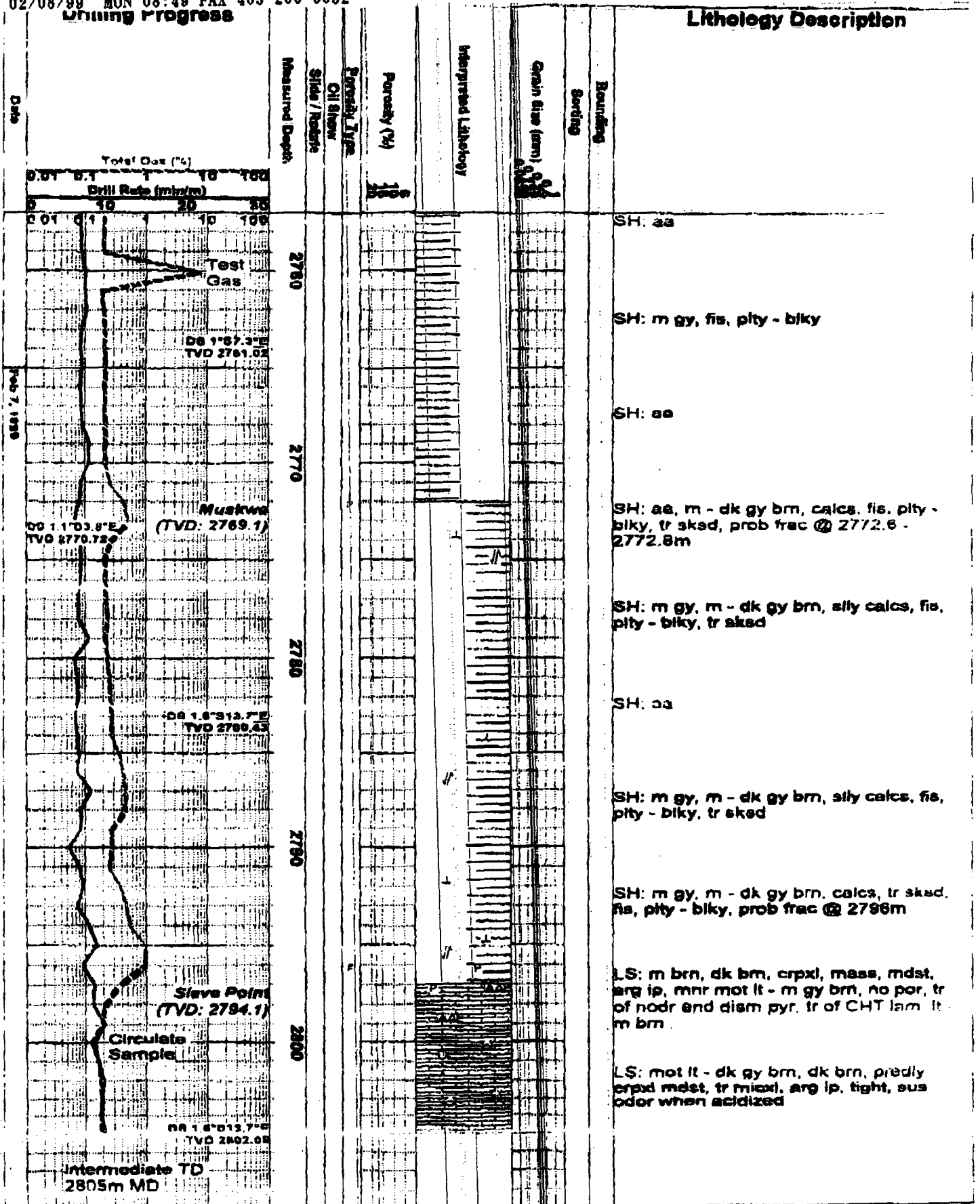
Operational Summary: Drill directional hole to TD, Hoist BHA. Run clean out trip.

Remarks: Muskwa looks like 2772 in samples but will probably be at about 2785m on logs. Slave Point is a tight dark Limestone at 2797m MD (2794.1m TVD). TD'd at 2805m MD (2802.1m TVD) Strong sulfurous odor from carbonate when acidized. Hole is getting a little snug, had to pump out 14 singles. I am confident we are in the right place so intend to make only one run, with stacked tools, so we can get it cased asap. Hope to be logging this afternoon.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Lithology Description



January 7, 1999
6:38 pm

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 4 of 4

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo & Gerry Sanders
File #: 9177p

Vertical Section Calculated on: 100.6700

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
99	2524.45	4.10	117.00	2521.67	0.80	4.39	4.17	2.59	-2134.97
100	2533.57	3.80	103.10	2530.77	0.58	4.98	4.79	3.29	-2144.07
101	2543.27	3.70	85.70	2540.45	0.53	5.80	5.41	3.52	-2153.75
102	2552.98	3.50	70.80	2550.14	0.65	6.20	5.97	2.95	-2163.44
103	2562.24	3.00	62.30	2558.38	0.86	6.68	6.40	2.25	-2172.68
104	2571.70	2.40	57.70	2566.83	1.08	7.06	6.74	2.02	-2182.13
105	2581.52	1.70	69.30	2578.65	1.24	7.37	7.02	2.48	-2191.95
106	2590.64	0.60	136.30	2587.76	1.26	7.53	7.17	5.15	-2201.06
107	2600.36	1.10	201.10	2597.48	1.13	7.54	7.20	3.10	-2210.78
108	2609.66	1.50	201.40	2606.78	0.93	7.46	7.16	1.29	-2220.08
109	2619.14	1.20	174.40	2616.26	0.72	7.42	7.18	2.20	-2229.56
110	2628.96	0.80	133.60	2626.08	0.57	7.48	7.25	2.42	-2239.38
111	2638.67	0.70	92.60	2635.79	0.52	7.59	7.36	1.65	-2249.09
112	2648.36	0.40	32.10	2645.48	0.55	7.67	7.43	1.89	-2258.78
113	2657.82	0.30	3.80	2654.94	0.60	7.69	7.44	0.62	-2268.24
114	2667.53	0.20	246.10	2664.85	0.62	7.67	7.43	1.33	-2277.95
115	2676.88	0.20	205.10	2674.01	0.60	7.65	7.41	0.45	-2287.31
116	2686.57	0.30	173.90	2683.69	0.56	7.65	7.41	0.51	-2296.99
117	2696.39	0.60	158.80	2693.50	0.48	7.67	7.45	0.88	-2306.80
118	2706.06	0.80	136.00	2703.17	0.39	7.73	7.53	1.05	-2316.47
119	2715.64	1.00	146.00	2712.75	0.27	7.83	7.64	0.79	-2326.05
120	2725.46	1.20	156.50	2722.57	0.10	7.92	7.76	0.87	-2335.87
121	2734.75	1.30	166.10	2731.86	-0.09	7.98	7.86	0.75	-2345.16
122	2744.46	0.90	171.20	2741.57	-0.27	8.02	7.93	1.27	-2354.87
123	2754.23	0.80	176.40	2751.34	-0.41	8.03	7.97	0.39	-2364.64
124	2763.91	1.00	172.70	2761.02	-0.56	8.05	8.02	0.65	-2374.32
125	2773.62	1.10	176.20	2770.72	-0.74	8.07	8.06	0.37	-2384.02
126	2783.33	1.60	166.30	2780.43	-0.97	8.10	8.14	1.70	-2393.73
T.D. Intermediate casing point									
Ext	2805.00	1.80	166.30	2802.08	-1.55	8.25	8.39	0.00	-2415.39

Closure is 8.3933 Meters on an azimuth of 100.6702

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-07 0600
Yr. Mon. Day. Time

WELL NAME Para-ORL Para-ORL LOCATION 0-15-60-14-125-00
 Day 21 Depth 2798 Meters last 24 hr 126m Rotating hrs 19
 Activity at report time CIRC. BHM HOLE SAMPLE - 2798m

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1010 Vls 50 WL 1.5 Gels 10/2.5 Solids 6.6 % PV 13.0 YP .96 pH
 Oil 97.2 % Sand 0.05 % Cake 2.0 PPMCL 4/60-00 PPMCa 16.0-00

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT KPM	RPM							T	B	G
6	216	REG HPM	104037	14/19	30/15		126	262	1900	4400	5.8			0.3

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. MPa
	1	2	3	STROKE	RPM	LINE	RPM	DP	DC			
6	11.9	11.9	11.9	203	105	152	1.1	24	84	57		92.00

DEVIATION SURVEYS

at	m		at	m
at	m		at	m
at	m		at	m
at	m		at	m

MUD & CHEMICALS ADDED

BASE OIL 100' 112.00 m'
 SOLUBLE F 5.50
 CUB G 5.50
 THERMAL 2.00

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
1- BIT		216	.25	
1- DRILLING MOTOR		161	6.66	
1- FLOW SUB		164	.67	
1- MWD. NMD		167	9.44	
1- PULSER SUB		161	1.14	
1- NM DC		158	9.39	
1- X0 SUB		172	8.44	
3- DC		176	28.73	
1- DRILLING JAR		176	3.56	
12- DC		176	113.86	
1- X0 SUB		163	.58	
6- HWOP		114	54.98	
TOTAL			224.52	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	19.00	
2. Trips		
3. Rig Service	.50	
4. Deviation Surveys	2.00	
5. Ream & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation	.75	
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testlog		
14. Waiting on		
15. Dipper Up & Test BOPS		
16. Drilling Out		
17. Test Circ.		
18. Laying Down DP & BOP's		
19. Rig & Abandon		
20. Rig up - Tear out		
21. WORK TIME Total	1.75	
TOTAL	24.00	

COSTS

DAILY 48100
 CUMMULATIVE 1069143

SUPERVISOR

G SANDERS

PARA-ORL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-07 0600
Yr - Mon - Day - TimeWELL NAME *PARA ERM APPROX 100m* LOCATION *0-15*

OPERATIONS DETAIL:

12

*DIRECTIONAL DRILL & SURVEY ALREADY**CONNECTIONS STILL TIGHT 9-27m DEAG. HAVE TO PACE ROOM**ON AN EASY CONNECTION**HOLE ANGLE HOLDING REASONABLY GOOD 45° 13° THE LAST 200m**FULLY TEST ANNULAR B.O.P. 14 SEC TOP PIPE RAM 6 SEC**HOLE SEEMS TO BE CLEARING OK.**1400 PICKER CAME IN AND STAND FRONT END LAPPED BACK ON ITS
WHEELS - NO SIGNS OF DAMAGE.*

WANT LIST:

WEATHER:

ROAD:

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

*HAULED IN 21-120mm DE 9 PICK UP JOBS FROM F3L LOCATION**SENT 1400 GAL TANK FROM 0115 TO 0101**SENT 2 BASKETS FISHING TAIL BACK TO THE CAMP**SENT COYOTE VIKING CRANE 3000 GALLONS CRANE TO BE SENT TO NIGRO 02/11/99*

PARA-DRL_RPT2.xls

January 7, 1999
5:29 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead D-15
Location: Lat 80 24' Long 123 02'
Co Rep: Wilbert Callihoo & Gerry Sanders
File #: 9177p

Vertical Section Calculated on: 95.2500

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
106	2590.64	0.80	136.30	2587.76	1.26	7.53	7.39	5.15	-2201.06
107	2600.36	1.10	201.10	2597.48	1.13	7.54	7.40	3.10	-2210.78
108	2608.66	1.50	201.40	2608.78	0.83	7.48	7.34	1.29	-2220.08
109	2619.14	1.20	174.40	2616.26	0.72	7.42	7.33	2.20	-2229.56
110	2628.96	0.80	133.60	2626.08	0.57	7.48	7.40	2.42	-2239.38
111	2638.67	0.70	92.60	2635.79	0.52	7.59	7.51	1.65	-2249.09
112	2648.36	0.40	32.10	2645.48	0.55	7.67	7.59	1.89	-2258.78
113	2657.82	0.30	3.80	2654.94	0.60	7.69	7.60	0.62	-2268.24
114	2667.53	0.20	246.10	2664.85	0.62	7.67	7.59	1.33	-2277.95
115	2676.89	0.20	205.10	2674.01	0.60	7.65	7.57	0.45	-2287.31
116	2686.57	0.30	173.90	2683.69	0.56	7.65	7.56	0.51	-2296.99
117	2696.39	0.60	158.80	2693.50	0.48	7.67	7.59	0.98	-2306.80
118	2706.08	0.80	136.00	2703.17	0.39	7.73	7.67	1.05	-2316.47
119	2715.64	1.00	146.00	2712.75	0.27	7.83	7.77	0.79	-2326.05
120	2725.46	1.20	156.50	2722.57	0.10	7.92	7.87	0.87	-2335.87
121	2734.75	1.30	166.10	2731.86	-0.08	7.98	7.96	0.75	-2345.16
122	2744.46	0.90	171.20	2741.57	-0.27	8.02	8.01	1.27	-2354.87
123	2754.23	0.80	176.40	2751.34	-0.41	8.03	8.04	0.39	-2364.54
124	2763.91	1.00	172.70	2761.02	-0.56	8.05	8.07	0.65	-2374.32
125	2773.62	1.10	176.20	2770.72	-0.74	8.07	8.10	0.37	-2384.02

Closure is 8.1006 Meters on an azimuth of 95.2521



QIR Drilling Services
A Computalog Ltd. & Geoservice P.A. Ltd. Joint Venture

Daily Activity Report

Day 13 - 199902/06

FILE #: 9177P

COMPANY: Paramount Resources Ltd.

SURFACE LOCATION: Lat 60 24' Long 123 02'

WELL NAME: Paramount Berkey Arrowhead 0-15

SURVEY SERVICE CO.: United GeoCom

CO. REP: Gerry Sanders

RIG & NO: Precision 507

JOB TYPE: Directional

SURVEY TYPE: Mud Pulse MWD

DAY #: 13 DATE: 2/6/99

GROUND ELEV: 380.5

STAIR DEPTH: 2046.0

PREVIOUS COST: \$58245.00

KB ELEV: 388.7

END DEPTH: 2785.0

DAILY COST: \$8427.50

AVG. ROP.: 6.78

PROGRESS(m): 120.0

TOTAL COST: \$108872.50

TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA	TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA
00:00 TO 03:45	Directional Drill	2683	4	15:00 TO 16:00	Circ & Accumulate Surveys	2725	4
03:45 TO 04:00	Rig Service	2683	4	16:00 TO 16:30	Directional Drill	2730	4
04:00 TO 08:00	Directional Drill	2672	4	16:30 TO 16:45	Rig Service	2730	4
08:00 TO 07:00	Circulating - Work light conn	2672	4	16:45 TO 17:15	Directional Drill	2768	4
07:00 TO 08:00	Circ & Accumulate Surveys	2672	4	17:15 TO 18:00	Circulating - Work light conn	2768	4
08:00 TO 14:00	Directional Drill	2725	4	18:00 TO 18:00	Circ & Accumulate Surveys	2768	4
14:00 TO 15:00	Circulating - Work light conn	2725	4				

TIME SUMMARY (hrs):

MOTOR DRILL: 17.75 ROTARY DRILL: 0.00

TIME DRILL: 0.00

REAM: 0.00

CIRC: 5.75

TRIP: 0.00

OTHER: 0.50

MOTOR HRS: 23.50 DRILL HRS: 17.75 TOTAL HRS: 24.00

DRILLING PARAMETERS:

TOO DEEP: 0

WOB BENDING (H): 21

WOB BENDING (LO): 17

RTM (ROTARY): 35

RPM (MOTOR): 75

WOB ROTATE (H): 17

WOB ROTATE (LO): 14

DRAG UP: 28

DRAG DN: 15

BHA / MOTOR INFORMATION:

BHA: 4

MANFCT.: Computalog

BETTING: 1.63

HOLE SIZE: 216

SERIAL #: 650-147

SIZE: 6 1/2" (165mm)

SECTION TYPE: Main Hole

MODE: Comm II

MOTOR HRS THIS DAY: 23.5

LOBE CFG.: 7/8

MYR HRS TO DATE: 47.5

PUMP PARAMETERS

PRESSURE ON BTM(KPa): 8300		PRESSURE OFF BTM(KPa): 500		TOTAL FLOW RATE(m3): 1.10	
PUMP 1:	TYPE: A-600-P	SPM: 0.00	LINER: 0.00	STROKE VOL.: 0.0000	
PUMP 2:	TYPE: A-600-PT	SPM: 105.00	LINER: 152.00	STROKE VOL.: 0.0001	
PUMP 3:	TYPE:	SPM: 0.00	LINER: 0.00	STROKE VOL.: 0.0000	

MUD RECORD

MUD TYPE: UBD Diesel	VISC: 50	WTR LOSS: 9	TV: 13	YP: 0.86	pH: 0
DENSITY(kg/m3): 1010	SAND: 0.005	SOLIDS: 0.000	OIL: 91.000	TEMP: 46	
LIQUID TYPE: Cutter D	LIQUID RATE: 1.1	GAS TYPE:	GAS RATE: 0		

COMMENTS:

DIR. SUPERVISOR:

DIR. SUPERVISOR:

CUSTOMER SIGNATURE:

Printed: 2/7/99 1:18:51 AM

File 99177P - Daily Activity Report

Page 1

Geological Morning Report**Feb 07, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 21
Target Location: O-15

Date: Feb 7, 1999 **Depth:** 2798m
Time: 06:00 hrs **Progress:** 126m
Hours Drilling: 17 **Average ROP:** 7.4m / hr

Formation: Fort Simpson / Muskwa

Operational Status: Drilling

Operational Summary: Drill directional hole

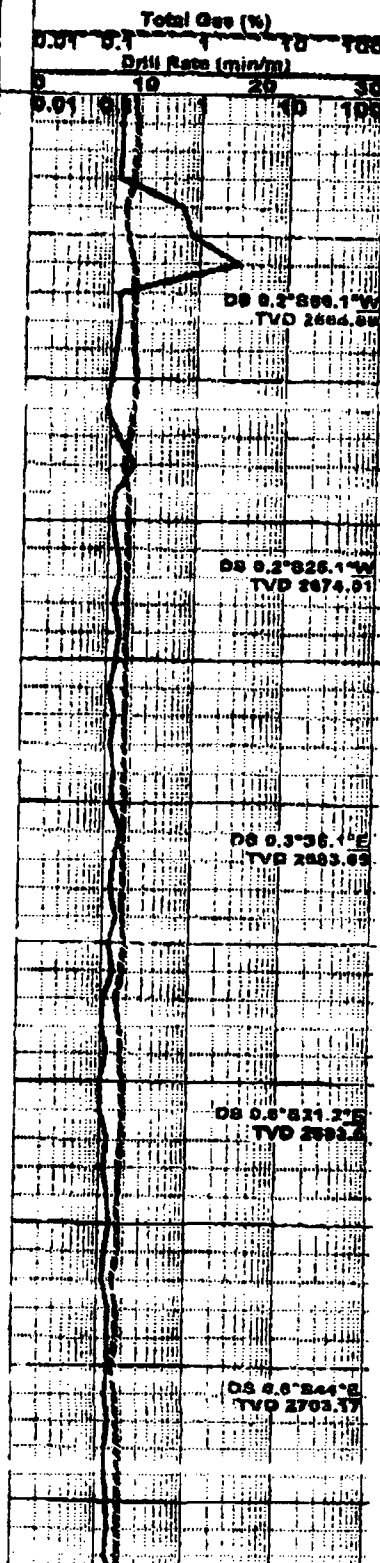
Remarks: Shale. Calcareous shale. A little liberated shale gas.
Probable limited fracture at 2772.6m, minor gas effect.
Shale below 2772m is darker and more calcareous, could
be Muskwa. Not sure yet. Stopped to flow check and
circulate a bottom sample @ 05:30.

Paramount Resources Ltd.
300O156030123000

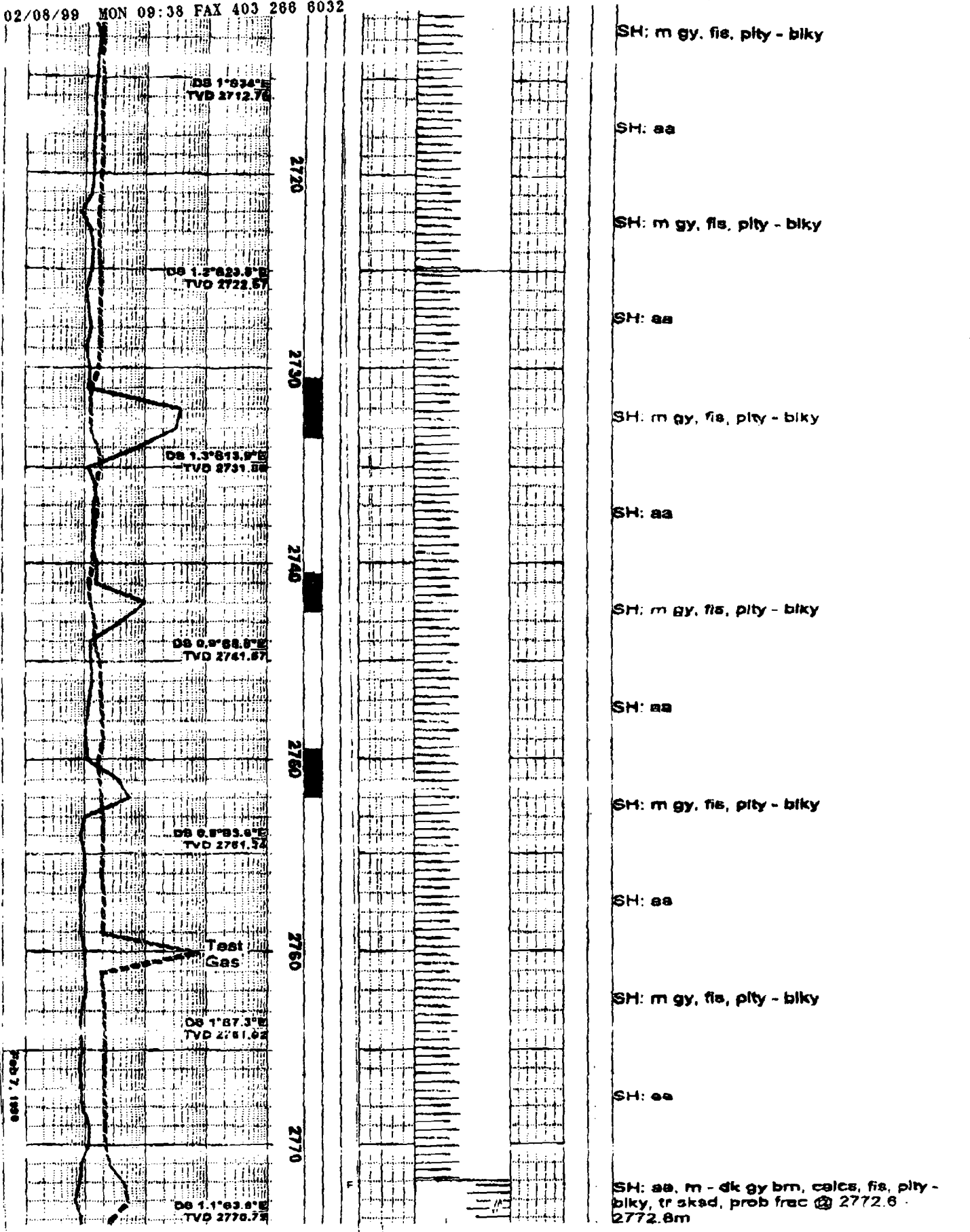
Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

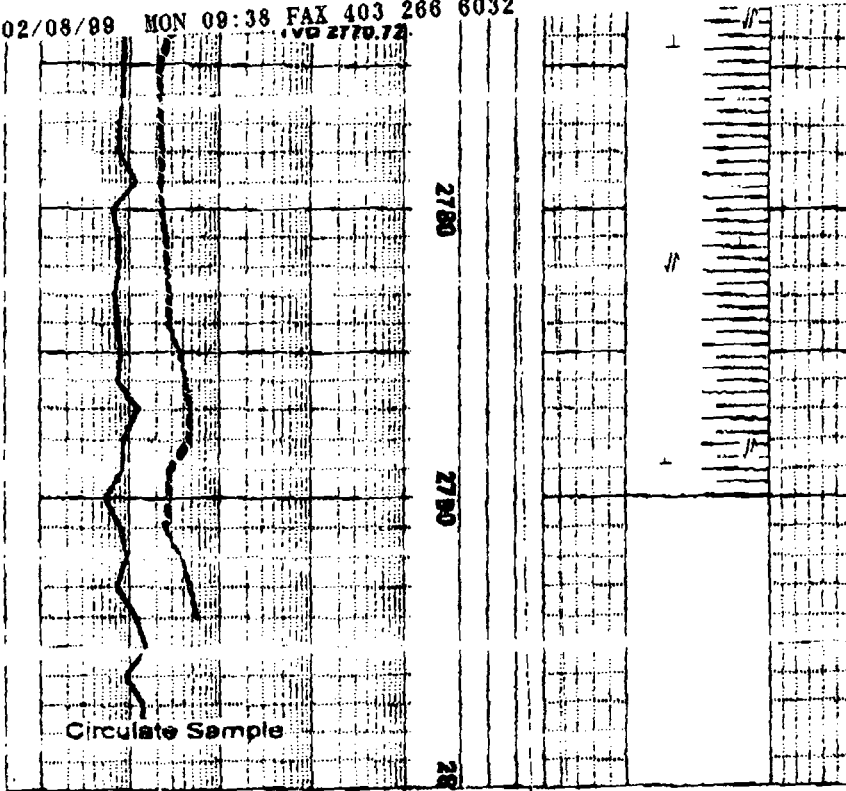
Drilling Progress

Lithology Description



Measured Depth	Grain Size (mm)	Unconsolidated Lithology	Porosity (%)	Porosity Type	OW Show	Slide / Rubble	Roundness	Sorting	Lithology Description
2670									SH: ss
2680									SH: m gy, m gy silty calca, fis. pily
2690									SH: m gy, fis, pily
2700									SH: ss
2710									SH: m gy, fis, pily
2720									SH: ss
2730									SH: m gy, fis, pily
2740									SH: ss
2750									SH: m gy, fis, pily - blkv
2760									SH: ss
2770									SH: m gy, fis, pily - blkv





blky, tr sksd, prob frac @ 2772.6 - 2772.8m

SH: m gy, m - dk gy brn, silty calcs, fis, pty - blky, tr sksd

SH: aa

SH: m gy, m - dk gy brn, silty calcs, fis, pty - blky, tr sksd

February 7, 1999

PathTracker 4.0

Page 1 of 1

5:25 am:

Survey Calculation Program

UNITED GEOCOM DRILLING SERVICES

Customer: PARAMOUNT RESOURCES LTD.

WellName: Paramount Berkley Arrowhead 0-15

Location: Lat 60 24' Long 123 02'

Co Rep: Wilbert Callihoo & Gerry Sanders

File #: 9177p

Vertical Section Calculated on: 95.2500

Survey Calculation Method: Minimum Curvature

File Name: C:\PATH\TRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
106	2590.64	0.60	138.30	2587.76	1.26	7.53	7.39	5.15	-2201.06
107	2600.36	1.10	201.10	2597.48	1.13	7.54	7.40	3.10	-2210.78
108	2609.66	1.50	201.40	2606.78	0.93	7.46	7.34	1.29	-2220.08
109	2619.14	1.20	174.40	2616.26	0.72	7.42	7.33	2.20	-2229.56
110	2628.96	0.80	133.60	2626.08	0.57	7.48	7.40	2.42	-2239.38
111	2638.67	0.70	92.60	2635.79	0.52	7.59	7.51	1.65	-2249.09
112	2648.36	0.40	32.10	2645.48	0.55	7.67	7.59	1.89	-2258.78
113	2657.92	0.30	3.80	2654.94	0.60	7.69	7.60	0.62	-2268.24
114	2667.53	0.20	248.10	2664.65	0.62	7.67	7.59	1.33	-2277.95
115	2676.89	0.20	205.10	2674.01	0.60	7.65	7.57	0.45	-2287.31
116	2686.57	0.30	173.90	2683.69	0.56	7.65	7.56	0.51	-2296.99
117	2696.39	0.60	158.80	2693.50	0.48	7.67	7.59	0.98	-2306.80
118	2706.06	0.80	136.00	2703.17	0.39	7.73	7.67	1.05	-2316.47
119	2715.64	1.00	146.00	2712.75	0.27	7.83	7.77	0.79	-2326.05
120	2725.46	1.20	156.50	2722.57	0.10	7.92	7.87	0.87	-2335.87
121	2734.75	1.30	166.10	2731.86	-0.09	7.98	7.96	0.75	-2345.16
122	2744.46	0.90	171.20	2741.57	-0.27	8.02	8.01	1.27	-2354.87
123	2754.23	0.80	176.40	2751.34	-0.41	8.03	8.04	0.39	-2364.64
124	2763.91	1.00	172.70	2761.02	-0.56	8.05	8.07	0.65	-2374.32
125	2773.62	1.10	176.20	2770.72	-0.74	8.07	8.10	0.37	-2384.02

Closure is 8 1006 Meters on an azimuth of 95.2521

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 79 04 06 00
Yr - Mon - Day - Time

WELL NAME PARA RIA AERON HORN LOCATION 0-15 6024' 123' 02'
 Day 20 Depth 2672 Metres last 24 hr 103 Rotating hr 19
 Activity at report time

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1000 Vis 48 WL 16 Gels 10/20 Solids 7.5 % PV 13 VP 4.75 pH
 Oil 98.7 % Sand 1005 % Cake 2.0 PPMCL 4/3332.2 PPMCa 48000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hps TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	D	G
6	210	Rock IPS 11	694037	14/15	20/15		163	134	19.0	25	5.26		0	5

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	SPM	PUMP	LINER m/MIN	ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3					DP	DC			
6	11.9	11.9	11.9	203	105	152	1.1	44	84	57		9200

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

BASE OIL 104 TORBOL MLI 3 80L
 CARBON MLI 186L
 SOLUBLE 6.5%
 CH. CAS 6.5%

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT kg
1 - Bit		210	.25	
1 - DRILLING MOTOR		161	6.66	
1 - Flare SUB		164	.67	
1 - MWD NMAC		167	9.44	
1 - Pulse SUB		161	1.14	
1 - NMAC		158	9.39	
1 - XG SUB		171	.44	
3 - DC		176	28.75	
1 - DRILLING SWL		170	3.86	
12 - DC		176	113.76	
1 - XG SUB		163	.58	
6 - HWRP		171	54.88	
TOTAL			229.52	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	19	
2. Trips		
3. Rig Service	50	
4. Deviation Surveys	3.0	
5. Ream & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Corlog		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP		
19. Plug & Abandon		
20. Big up - Tear out		
21. Break Ties etc	1.50	
TOTAL	24.00	

COSTS

DAILY

CUMULATIVE

SUPERVISOR

PARA-DRL_RPT.x16

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

WELL NAME *Para Etn Perous Head*FOR 24 HR PERIOD ENDING *14 02 06 0600*
Yr - Mon - Day - TimeLOCATION *0-15-66'24'123'2*

OPERATIONS DETAIL:

17
 DIRECTIONAL DRILL & SURVEY AHEAD. CONNECTIONS ARE GOING VERY
 TIGHT. STUCK FOR HALF HOUR IN LAST 24 HRS - BACK REAMING ON
 CONNECTIONS TO PICK UP.

ADDED 3 BBLs TORQUE TOOL HELPS PENETRATION BUT NOT MUCH HELP IN
 CONNECTIONS

FUNCTION TEST TOP API RINGS 6 SEC TO CLOSE

DEVIATION HAS DROPPED BACK TO .5 DEGREES

HERE TO 8% AT TO TODAY.

LAYED FRONT END LOGGER ON THE SHALE BID.

MOVING SHALE FROM SHAKER TO SHALE BID w/ PALS -

WANT LIST:

WEATHER: *0/CASST. WINDS N.W. @ 5 THER - 20* ROAD: *GOOD*

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

January 6, 1999

PathTracker 4.0

Page 1 of 1

4:05 am

Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo & Gerry Sanders
File #: 9177p

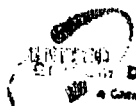
Vertical Section Calculated on: 85.6400

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRKR\9177.SP3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
93	2486.41	1.80	74.30	2453.71	1.90	1.86	1.99	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.29	0.93	-2086.82
95	2466.95	1.90	95.70	2483.24	1.96	2.45	2.59	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.88	2.81	2.94	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.39	4.13	-2115.52
98	2514.77	4.20	128.50	2512.01	1.18	3.81	3.89	1.56	-2125.31
99	2524.45	4.10	117.00	2521.67	0.80	4.39	4.44	2.59	-2134.97
100	2533.57	3.80	103.10	2530.77	0.58	4.98	5.01	3.29	-2144.07
101	2543.27	3.70	85.70	2540.45	0.53	5.60	5.63	3.52	-2159.75
102	2552.98	3.50	70.80	2550.14	0.65	6.20	6.23	2.95	-2163.44
103	2562.24	3.00	62.30	2559.38	0.86	6.68	6.72	2.25	-2172.68
104	2571.70	2.40	57.70	2568.83	1.08	7.06	7.13	2.02	-2182.13
105	2581.52	1.70	69.30	2578.65	1.24	7.37	7.45	2.48	-2191.95
106	2590.64	0.60	136.30	2587.76	1.26	7.53	7.61	5.15	-2201.06
107	2600.36	1.10	201.10	2597.48	1.13	7.54	7.60	3.10	-2210.78
108	2609.66	1.50	201.40	2606.78	0.93	7.46	7.51	1.29	-2220.06
109	2619.14	1.20	174.40	2616.26	0.72	7.42	7.46	2.20	-2229.56
110	2628.96	0.80	133.60	2626.08	0.57	7.48	7.51	2.42	-2239.38
111	2638.67	0.70	92.60	2635.79	0.52	7.59	7.61	1.65	-2249.00
112	2648.36	0.40	32.10	2645.48	0.55	7.67	7.69	1.89	-2258.78

Closure is 7.6883 Meters on an azimuth of 85.9187



Drilling Services

A Computalog Ltd. & Geoservices U.S.A. Ltd. Joint Venture

Daily Activity Report

Day 12 - 1999/02/05

FILE #: 9177P

COMPANY: Paramount Resources Ltd.

SURFACE LOCATION: Lat 60 24' Long 123 02'

WELL NAME: Paramount Berkley Arrowhead 0-15

SURVEY SERVICE CO.: United GeoCom

CO. REP: Gerry Sanders

RIG & NO: Precision 507

JOB TYPE: Directional

SURVEY TYPE: Mud Pulse MWD

DAY #: 12 DATE: 2/5/99

GROUND ELEV: 380.5

START DEPTH: 2540.0

PREVIOUS COST: \$89817.50

KB ELEV: 388.7

END DEPTH: 2848.0

DAILY COST: \$8427.50

AVG. ROP: 5.58

PROGRESS(m): 108.0

TOTAL COST: \$98245.00

TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA	TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA
00:00 TO 03:30	Directional Drill	2538	4	10:00 TO 18:00	Directional Drill	2805	4
03:30 TO 05:45	Rig Service	2538	4	18:00 TO 18:00	Circ & Accumulate Surveys	2805	4
05:45 TO 07:00	Directional Drill	2537	4	18:00 TO 18:18	Rig Service	2805	4
07:00 TO 08:00	Circ & Accumulate Surveys	2537	4	18:15 TO 22:30	Directional Drill	2848	4
08:00 TO 09:00	Directional Drill	2538	4	22:30 TO 23:00	Circulating - Work tight conn	2848	4
09:00 TO 10:00	Circulating - Work tight hole	2538	4	23:00 TO 24:00	Circ & Accumulate Surveys	2848	4

TIME SUMMARY (hrs):

MOTOR DRILL: 19.00 ROTARY DRILL: 0.00

TIME DRILL: 0.00

REAM: 0.00

CIRC: 4.50

MOTOR HRS: 23.50

DRILL HRS: 19.00

TOTAL HRS: 24.00

DRILLING PARAMETERS:

TORQUE: 0

WOB SLIDING (HI): 20

WOB SLIDING (LO): 17

RPM (ROTARY): 35

RPM (MOTOR): 75

WOB ROTATE (HI): 17

WOB ROTATE (LO): 14

DRAG UP: 25

DRAG DN: 15

BHA / MOTOR INFORMATION

BHA: 4

MANFCT: Computalog

SETTING: 1.83 KICKPAD: No

HOLE SIZE: 218

SERIAL #: 850-147

SIZE: 6 1/2" (165mm)

SECTION TYPE: Main Hole

MODEL: Comm III

MTR HRS THIS DAY: 23.5

LOBE CFG.: 7/8

MTR HRS TO DATE: 24

PUMP PARAMETERS

PRESSURE ON BTM(KPa): 9300

PRESSURE OFF BTM(KPa): 8100

TOTAL FLOW RATE(m3): 1.13

PUMP 1: TYPE: A-600-P

SPM: 0.00

LINER: 0.00

STROKE VOL.: 0.0000

PUMP 2: TYPE: A-600-PT

SPM: 105.00

LINER: 152.00

STROKE VOL.: 0.0001

PUMP 3: TYPE:

SPM: 0.00

LINER: 0.00

STROKE VOL.: 0.0000

MUD RECORD

MUD TYPE: UBD Diesel

VISC: 50

WTR LOSS: 0

PV: 13

YP: 1.44

pH: 0

DENSITY(kg/m3): 1010

SAND: 0.006

SOLIDS: 7200

OIL: 91.000

TEMP: 46

LIQUID TYPE: Cutter D

LIQUID RATE: 1

GAS TYPE:

GAS RATE: 0

COMMENTS:

DIR. SUPERVISOR:

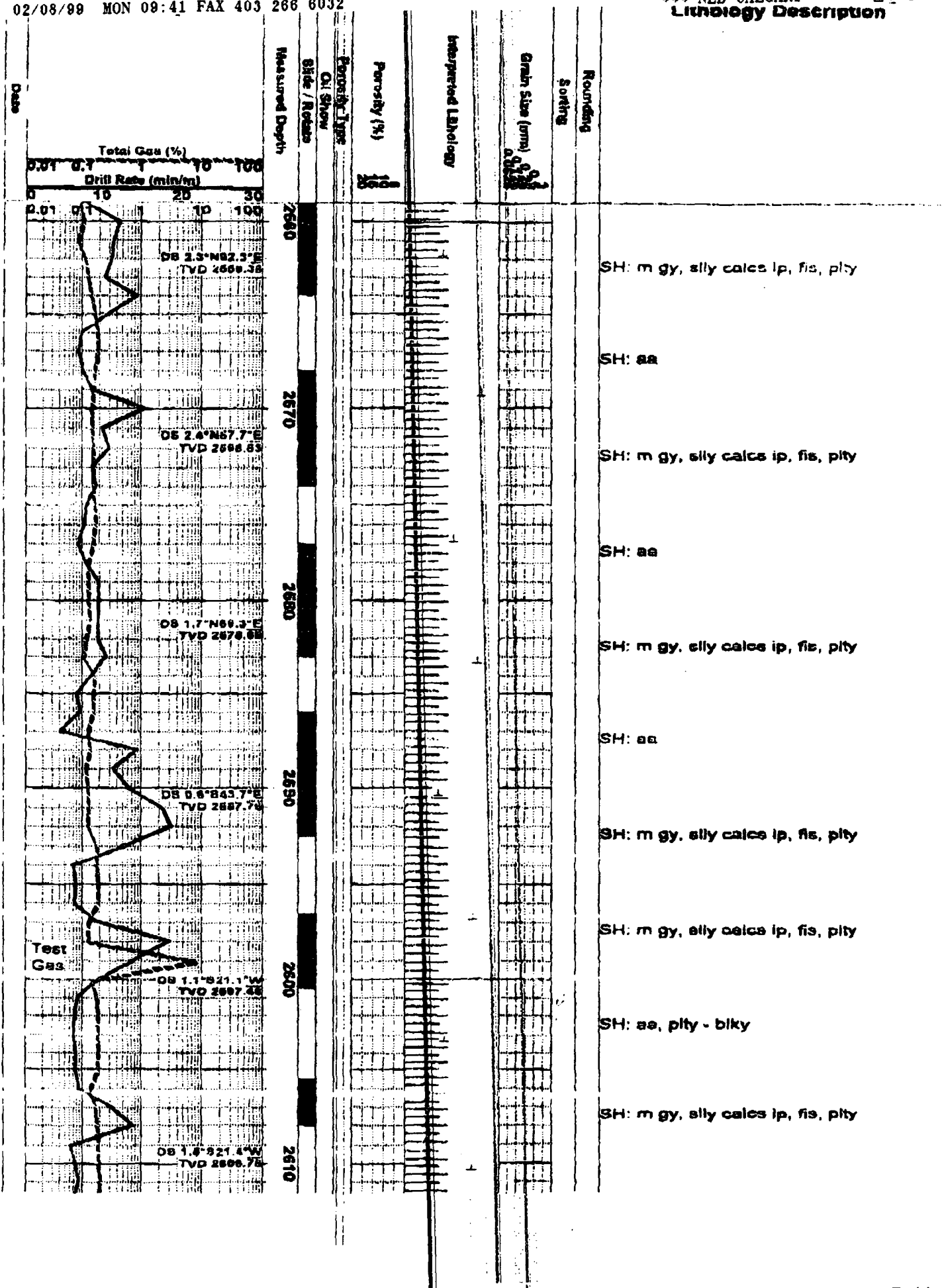
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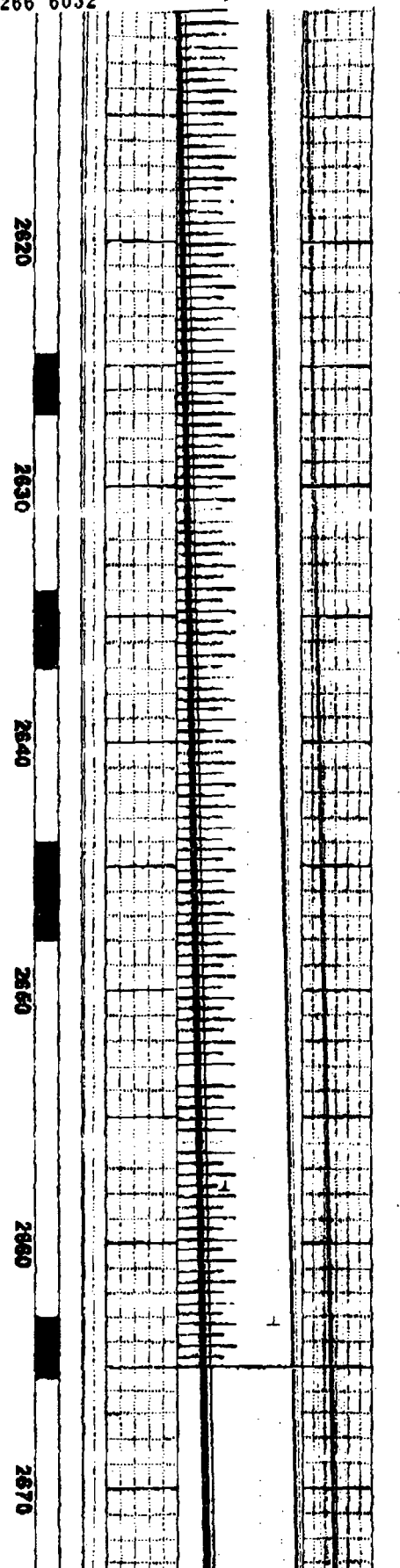
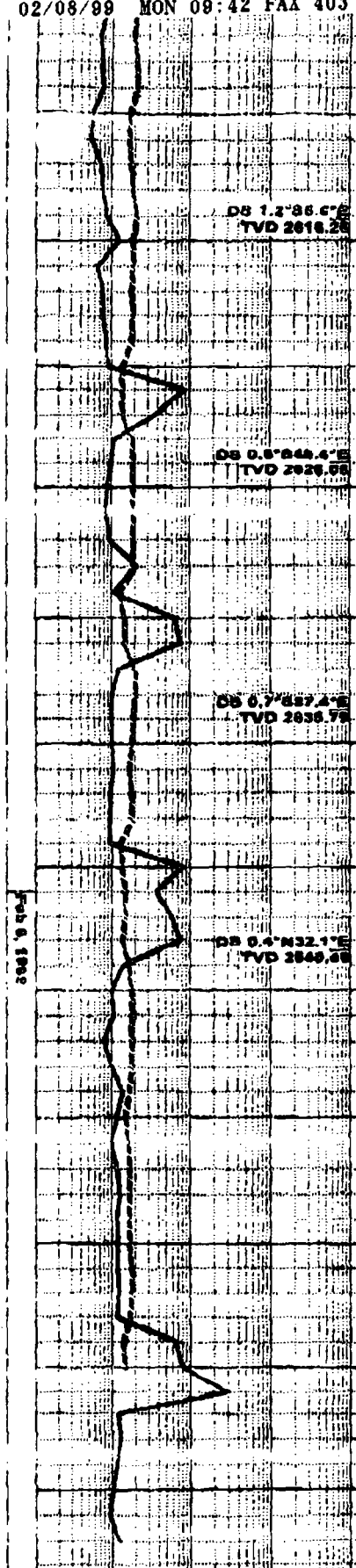
CUSTOMER SIGNATURE:

Printed: 2/8/99 4:11:18 AM

File #9177P - Daily Activity Report

Page 1





SH: aa

SH: m gy, fis, pty

SH: aa

SH: m gy, fis, pty

SH: aa

SH: m gy, fis, pty

SH: aa

SH: m gy, fis, pty

SH: aa

SH: m gy, m gy silty calcs, fis, pty

SH: aa

uary 6, 1999
am

Path Tracker 4.0
Survey Calculation Program
UNITED GEOCON DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo & Gerry Sanders
File #: 9177p

Vertical Section Calculated on: 85.6400
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
93	2466.41	1.80	74.30	2463.71	1.90	1.86	1.99	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.28	0.93	-2086.82
95	2485.95	1.90	95.70	2483.24	1.98	2.45	2.59	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.86	2.81	2.94	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.39	4.13	-2116.52
98	2514.77	4.20	128.50	2512.01	1.18	3.81	3.89	1.56	-2125.31
99	2524.45	4.10	117.00	2521.67	0.80	4.39	4.44	2.59	-2134.97
100	2533.57	3.80	103.10	2530.77	0.58	4.88	5.01	3.29	-2144.07
101	2543.27	3.70	85.70	2540.45	0.53	5.80	5.63	3.52	-2153.75
102	2552.98	3.50	70.80	2550.14	0.65	6.20	6.23	2.95	-2163.44
103	2562.24	3.00	62.30	2559.38	0.86	6.68	6.72	2.25	-2172.68
104	2571.70	2.40	57.70	2568.83	1.08	7.06	7.13	2.02	-2182.13
105	2581.52	1.70	69.30	2578.65	1.24	7.37	7.45	2.48	-2191.95
106	2590.64	0.60	136.30	2587.76	1.26	7.53	7.61	5.15	-2201.06
107	2600.36	1.10	201.10	2597.48	1.13	7.54	7.60	3.10	-2210.78
108	2609.66	1.50	201.40	2606.78	0.93	7.46	7.51	1.29	-2220.08
109	2619.14	1.20	174.40	2616.28	0.72	7.42	7.46	2.20	-2229.56
110	2628.96	0.80	133.60	2626.08	0.57	7.48	7.51	2.42	-2239.38
111	2638.67	0.70	92.60	2635.79	0.52	7.59	7.61	1.65	-2249.09
112	2648.36	0.40	32.10	2645.48	0.55	7.67	7.69	1.89	-2258.78

Closure is 7.6883 Meters on an azimuth of 85.9187

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-02-05 0600
Yr. Mon. Day - TimeWELL NAME PARA FLD. ARROWHEAD LOCATION 0-15-60°24' 123°02'Day 19Depth 2569Meters last 24 hr 40Rotating hrs 7.25

Activity at report time

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 10/6 Vls 50 WL 16 Gels 1.0/2.0 Solids 7.5 % PV 13 YP 144 mPa
Oil 98.1 % Sand .005 % Cake 2.0 PPMCL 413333.1 PPMCa 48000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRILL TODAY	CUM m. DRILL	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							I	D	C
<u>5</u>	<u>216</u>	<u>SIL M20</u>	<u>LT1582</u>	<u>1418</u>	<u>3415</u>	<u>2538</u>	<u>9</u>	<u>337</u>	<u>1.25</u>	<u>72.5</u>	<u>46</u>	<u>1</u>	<u>4</u>	<u>01</u>
<u>6</u>	<u>216</u>	<u>2000 HADIN</u>	<u>LA1037</u>	<u>1418</u>	<u>3025</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>6.6</u>	<u>6</u>	<u>5.1</u>	<u>0</u>	<u>8</u>	<u>08</u>

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			ANN. VEL.		JET VEL.	HHR	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m³/MIN	DP	DC			
<u>5</u>	<u>11.9</u>	<u>11.9</u>	<u>11.9</u>	<u>203</u>	<u>105</u>	<u>152</u>	<u>1.1</u>	<u>44</u>	<u>84</u>	<u>57</u>		<u>9200</u>
<u>6</u>	<u>11.9</u>	<u>11.9</u>	<u>11.9</u>	<u>203</u>	<u>105</u>	<u>152</u>	<u>1.1</u>	<u>44</u>	<u>84</u>	<u>57</u>		<u>9200</u>

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

SIL FLUKE 25%
Cal Cms 25%
Barite 15%
Mitchell 1%

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
<u>1-BIT</u>		<u>216</u>	<u>.25</u>		<u>1. Drilling</u>	<u>7.25</u>	
<u>1-DRILLING METAL</u>		<u>161</u>	<u>6.66</u>		<u>2. Trips</u>	<u>10.00</u>	
<u>1-FLAT SUB</u>		<u>164</u>	<u>.67</u>		<u>3. Rig Service</u>	<u>.36</u>	
<u>1-MWD NMDC</u>		<u>167</u>	<u>9.44</u>		<u>4. Deviation Surveys</u>	<u>.75</u>	
<u>1-FLAT SUB</u>		<u>161</u>	<u>1.14</u>		<u>5. Beam & Cond. Hole</u>		
<u>1-NMDC</u>		<u>158</u>	<u>9.39</u>		<u>6. Mix & Cond. Mud</u>		
<u>1-FO</u>		<u>171</u>	<u>1.44</u>		<u>7. Circulation</u>	<u>2.60</u>	
<u>3-UC</u>		<u>176</u>	<u>28.75</u>		<u>8. Rig Repair Slip & Cut</u>	<u>.30</u>	
<u>1-DRILLING JAC</u>		<u>170</u>	<u>3.86</u>		<u>9. Run Casing & Cement</u>		
<u>12-OS</u>		<u>176</u>	<u>113.36</u>		<u>10. Fishing</u>		
<u>1-FO SUB</u>		<u>163</u>	<u>.58</u>		<u>11. Loglog</u>		
<u>6-MWD</u>		<u>150/IN</u>	<u>54.98</u>		<u>12. Corlog</u>		
					<u>13. Formation Testing</u>		
					<u>14. Waiting on</u>		
					<u>15. Nipple Up & Test BOPS</u>		
					<u>16. Drilling Out</u>		
					<u>17. Lost Circ</u>		
					<u>18. Laying Down DP & BOP's</u>		
					<u>19. Plug & Abandon</u>		
					<u>20. Rig up - Tear out</u>		
					<u>21. HAT Dip Tool</u>	<u>250</u>	
					TOTAL	<u>21</u>	

COSTS

DAILY 42135
CUMULATIVE 1008893SUPERVISOR G. SANDERS

PARA-ORL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 97 02 05 0600
Fr Mon Day Time

WELL NAME *Para Sta Arrow Head* LOCATION *0-15 6-24 123.1.1.1*

OPERATIONS DETAIL:

12

*DRIVEN TO 2538m. P.O.O.H TO CHANGE MOTORS & TRIP THRO-
HOLE. - HOLE DIA 6-25 TO CSY POINT.
CHANGED OUT MOTOR. R.I.H TO 250m TEST MWD.
SIPPEN & CUT DRILLING LINE.
R.I.H. Fill Pipe @ 1345m 1915m 2517m. NO NOTICEABLE
CHANGE IN HOLE DEAG ON TRIP IN. NO FILL ON Dm.
HOLE ANGLE DROPPING BACK. HOLE DEAG HOLDING STABLE.
ADDED 1 BBL MILDEN - SEAMS & HAVE HELPED ON DRILL.
WILL ADD SOME TORQUE TRAIL. & HELP W/ DEAG.*

WANT LIST:

WEATHER: *8/1000 CALM - 25°C*

ROAD: *Good.*

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Feb 05, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 19
Target Location: O-15

Date: Feb 5, 1999
Time: 06:00 hrs
Hours Drilling: 7

Depth: 2567m
Progress: 39m
Average ROP: 5.6m / hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill, Trip for BHA, Drill directional hole

Remarks: Shale. Calcareous shale. No gas shows. Hole still wants to go east. Hope to be logging by sunday.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

February 5, 1999
3:56 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 84.5700
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
82	2361.23	5.40	258.40	2358.63	1.76	4.75	4.80	2.60	-1971.93
83	2370.91	4.50	262.40	2368.27	1.62	3.93	4.06	2.99	-1981.57
84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.39	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	2.65	1.73	-2000.81
86	2399.80	2.20	257.00	2397.21	1.31	2.30	2.41	2.48	-2010.51
87	2408.26	1.10	260.10	2406.57	1.25	2.04	2.14	3.54	-2019.87
88	2418.99	0.50	269.70	2416.30	1.25	1.90	2.01	2.19	-2029.60
89	2428.81	1.00	306.70	2426.12	1.32	1.79	1.91	1.66	-2039.42
90	2438.08	1.30	319.10	2435.39	1.44	1.66	1.79	1.28	-2048.69
91	2447.41	1.30	346.00	2444.71	1.63	1.57	1.71	1.94	-2058.01
92	2457.05	1.30	54.30	2454.35	1.80	1.63	1.79	4.54	-2067.65
93	2466.41	1.80	74.30	2463.71	1.90	1.86	2.03	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.32	0.93	-2086.82
95	2485.95	1.80	95.70	2483.24	1.98	2.46	2.63	1.31	-2096.64
96	2495.23	2.70	110.90	2492.51	1.86	2.81	2.97	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.41	4.13	-2115.52
98	2514.77	4.20	128.50	2512.01	1.18	3.81	3.90	1.56	-2125.31
99	2524.45	4.10	117.00	2521.67	0.80	4.39	4.45	2.59	-2134.97
100	2533.57	3.80	103.10	2530.77	0.58	4.98	5.01	3.29	-2144.07
101	2543.27	3.70	85.70	2540.45	0.53	5.60	5.63	3.52	-2153.75

Closure is 5.6294 Meters on an azimuth of 84.5679

Paramount Resources Ltd.
Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Colin Bredin or Jerry Sanders
1-600-700-5443

Logging Alert

Status: Tight Hole

UWI: 3000156030123000

Coordinates: Lat. 60° 24' 53.694" Long. 123° 00' 31.174"

Contractor: Precision Drilling Rig #507 Licence: WID1834

Elevation: Ground 380.5m KB 386.7m

Deviated hole: maximum 6°

Hole Size: 216 mm Mud: Invert **BHT 170° C+/-**

Intermediate Casing: 244.5mm landed at 1186.6m

Production Casing: 177.8mm TD: about 2700m MD Field Prints: 4

1 wellsite floppy: ASCII of GR from casing to TD at 2 or 2.5m increments, 2 columns
from the top down please

eg. DEPT GR

2801.00 115

2801.25 118

Logs: One run in combination.

1. HDIL-GR

1:600 TD to Intermediate casing

GR 0-150

1:240 TD to Intermediate casing

2. ZDL-CNL-GR-PE-DAC

1:600 TD to Intermediate casing

PE 0-10

1:240 TD to Intermediate casing

Sandstone matrix -15 to 45 from TD to Intermediate casing

Limestone matrix -15 to 45 from 2200 to 1975m

* Annular volume / hole volume for 177.8mm casing and open hole

3. Dipole Sonic

1:600 TD to Intermediate casing

100-500

1:240 TD to Intermediate casing

100-300

dipole mode

Logstar: All logs, entire well

Copies to Paul Collens

6 prints, 4 LAS

off: 220-3600

home: 220-9766

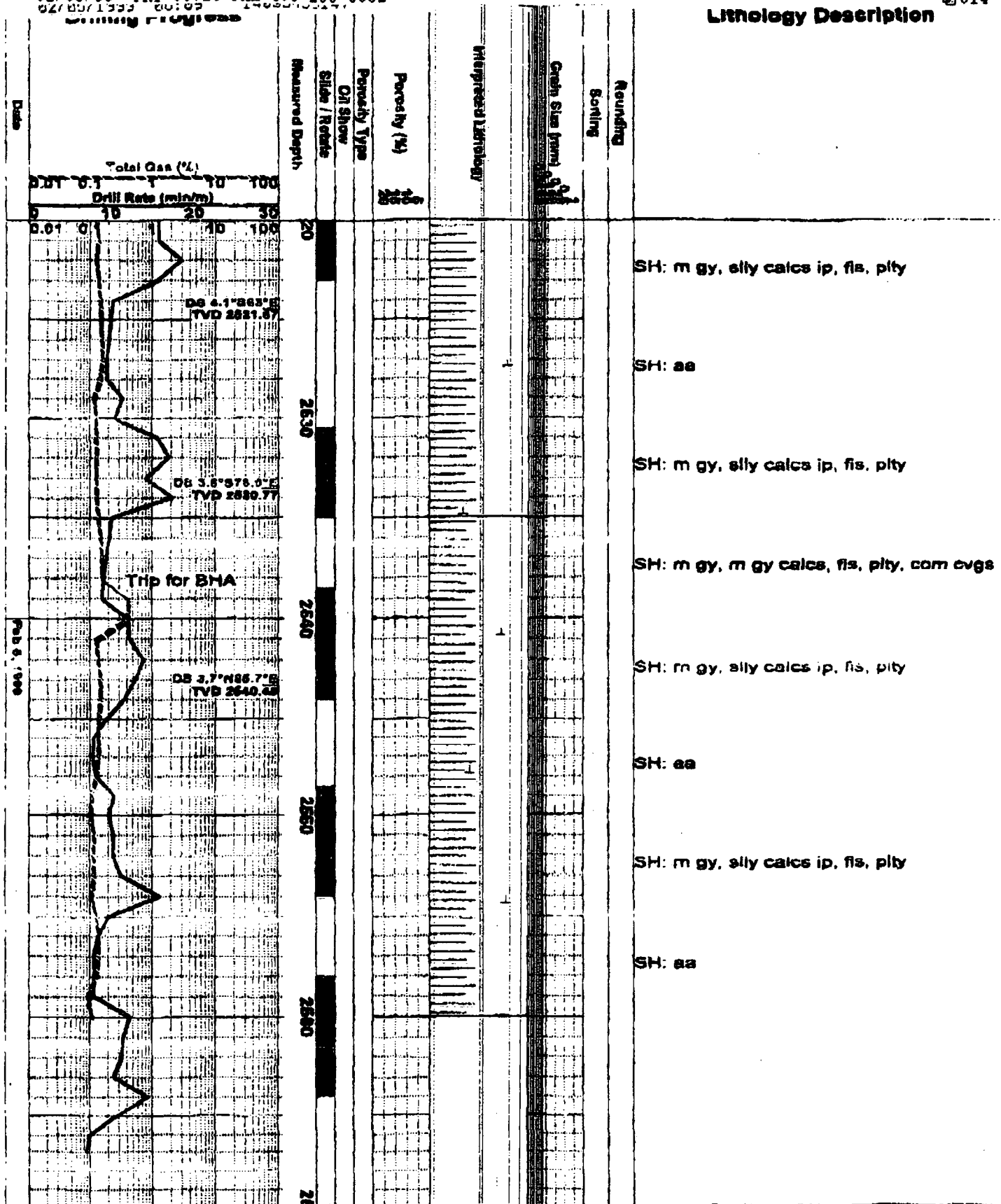
**** Mark first readings on all curves ****

No shop Copies. All scratch, scraps and garbage to be left on lease.

Thanks;

Attn: PAUL COLLENS

Lithology Description



February 5, 1999
3:56 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

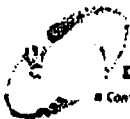
Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 84.5700
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
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84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.39	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	2.85	1.73	-2000.81
86	2399.90	2.20	257.00	2397.21	1.31	2.30	2.41	2.48	-2010.51
87	2409.26	1.10	260.10	2406.57	1.25	2.04	2.14	3.54	-2019.87
88	2418.99	0.50	289.70	2416.30	1.25	1.90	2.01	2.19	-2029.60
89	2428.81	1.00	306.70	2426.12	1.32	1.79	1.91	1.66	-2039.42
90	2438.08	1.30	319.10	2435.39	1.44	1.66	1.79	1.26	-2048.69
91	2447.41	1.30	346.00	2444.71	1.63	1.57	1.71	1.94	-2058.01
92	2457.05	1.30	54.30	2454.35	1.80	1.83	1.79	4.54	-2067.65
93	2466.41	1.80	74.30	2463.71	1.90	1.86	2.03	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.32	0.93	-2086.82
95	2486.95	1.90	95.70	2483.24	1.96	2.45	2.63	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.86	2.81	2.97	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.41	4.13	-2115.52
98	2514.77	4.20	128.50	2512.01	1.18	3.81	3.90	1.56	-2125.31
99	2524.45	4.10	117.00	2521.67	0.80	4.39	4.45	2.69	-2134.97
100	2533.57	3.80	103.10	2530.77	0.58	4.98	5.01	3.29	-2144.07
101	2543.27	3.70	85.70	2540.45	0.53	5.60	5.63	3.52	-2153.75

Closure is 5.8294 Meters on an azimuth of 84.5679

Drilling Services
a subsidiary of GOM Services M.A. Ltd. joint venture

Daily Activity Report

Day 11 - 1999/02/04

FILE #: 9177P

COMPANY: Paramount Resources Ltd.

SURFACE LOCATION: Lat 60 24' Long 123 02'

WELL NAME: Paramount Berkley Arrowhead 0-15

SURVEY SERVICE CO.: United GeoCom

CO. REP: Gerry Sanders

RIG & NO: Precision 507

JOB TYPE: Directional

SURVEY TYPE: Mud Pulse MWD

DAY #: 11 DATE: 1999/02/04

GROUND ELEV: 360.5

START DEPTH: 2507.0

PREVIOUS COST: \$80088.75

KB ELEV: 388.7

END DEPTH: 2540.0

DAILY COST: \$8821.25

AVG. ROP.: 4.55

PROGRESS(m): 33.0

TOTAL COST: \$89710.00

TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA	TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA
02:00 TO 03:00	Directional Drill	2518	3	18:30 TO 19:45	RIH With New BHA - #4	2538	4
03:00 TO 03:15	Rig Service	2518	3	19:45 TO 20:00	Calculating - Shallow test MWD	2538	4
03:15 TO 07:15	Directional Drill	2538	3	20:00 TO 20:30	Slip And Cut	2538	4
07:15 TO 08:00	Circ & Accumulate Surveys	2538	3	20:30 TO 20:30	RIH	2538	4
10:00 TO 16:00	POOH For Bt	2538	3	23:45 TO 24:00	Directional Drill	2540	4
16:00 TO 16:30	Handle Directional Tools - & change Bt	2538	4				

TIME SUMMARY (hrs):

MOTOR DRILL: 7.25 ROTARY DRILL: 0.00 TRIP: 10.25

TIME DRILL: 0.00 OTHER: 3.50

REAM: 0.00

CIRC: 3.00

MOTOR HRS: 10.25 DRILL HRS: 7.25 TOTAL HRS: 24.00

DRILLING PARAMETERS:

TORQUE: 0

WOB SLIDING (HI): 20

WOB SLIDING (LO): 17

RPM (ROTARY): 35

RPM (MOTOR): 75

WOB ROTATE (HI): 16

WOB ROTATE (LO): 12

DRAG UP: 25

DRAG DN: 15

BHA / MOTOR INFORMATION:

BHA: 3
MANFCT.: Black Max
SETTING: 1.83 KICKPAD: No
HOLE SIZE: 216
SERIAL #: 650-600
SIZE: 6 1/2" (165mm)SECTION TYPE: Main Hole
MODE: Comm III
MTR HRS THIS DAY: 9.75
LOBE CFG: 7/8
MTR HRS TO DATE: 83.5BHA: 4
MANFCT.: Computalog
SETTING: 1.83 KICKPAD: No
HOLE SIZE: 216
SERIAL #: 650-147
SIZE: 6 1/2" (165mm)SECTION TYPE: Main Hole
MODE: Comm III
MTR HRS THIS DAY: 0.5
LOBE CFG: 7/8
MTR HRS TO DATE: 0.5

PUMP PARAMETERS

PRESSURE ON BTM(KPa): 9500 PRESSURE OFF BTM(KPa): 8200 TOTAL FLOW RATE(m3): 1.10

PUMP 1:	TYPE: A-500-P	BPM: 0.00	LINEAR: 0.00	STROKE VOL.: 0.0000
PUMP 2:	TYPE: A-600-PT	SPM: 105.00	LINEAR: 152.00	STROKE VOL.: 0.0001
PUMP 3:	TYPE:	SPM: 0.00	LINEAR: 0.00	STROKE VOL.: 0.0000

MUD RECORD

MUD TYPE: UDC D-11 VISC: 5 WTR LOSS: 0 PV: 11 YP: 1.62 pH: 9
DENSITY(kg/m3): 1006 SAND: 0.005 SOLIDS: 7.200 OIL: 91.000 TEMP: 46
LIQUID TYPE: Cutter D LIQUID RATE: 1.1 GAS TYPE: GAS RATE: 0

COMMENTS:

Trip for bit

DIR. SUPERVISOR:

DIR. SUPERVISOR:

CUSTOMER SIGNATURE:

Printed: 1999/02/05 1:42:43 AM

File #9177P - Daily Activity Report

Page 1

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99 02 04 0600
Yr - Mon - Day - TimeWELL NAME Para E.A. Arrowhead LOCATION 0-15-60-24' 123° 02'
Day 18 Depth 2529 Meters last 24 hr 98 Rotating hrs 19
Activity at report time Directional Drill 2.5 m hole

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1005 Vls 52 WL Gels 1.0/100 Solids % PV 11 YP 1.92 pH
Oil 9R0 % Sand 0.05 % Cake 2.0 PPMCL 433333.3 PPMCa 373333.3

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DLD TODAY	CUM m DRI.D	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	R	C
5	216	SR M22P	451582	14/15	275		98	328	19	7125	4.6		0	3

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	IHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m³/MIN	IP	DC			
5	11.9	11.9	11.9	203	105	152	1.1	44	84	57		9200

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

Sol. Fluke 4.5x
Gel C-28 4.5x
P-55 oil 10m
H-20 1m

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
BIT		216	2.1	
1-M22P		166	6.18	
1-FLM SUB		160	.48	
1-MWD NON MAG		168	9.44	
1-20/30 SUB		160	1.14	
1-NON MAG DC		158	9.40	
1-XO SUB		170	.44	
3-DC		170	28.76	
1-DRILLING SPC		120	3.86	
12-DC		170	113.36	
1-DC 2-1		164	.58	
6-H2O.P		114	54.98	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling Directional	19.00	
2. Rig		
3. Rig Service	.50	
4. Deviating Surveys	2.50	
5. Beam & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair		
9. Run Casing & Cement		
10. Logging		
11. Logging		
12. Logging		
13. Formation Testing		
14. Waiting on:		
15. Make Up & Test BOPS		
16. Drilling Out		
17. Test Circ.		
18. Casing Down DR & BOP's		
19. Rig & Absorb		
20. Rig up - Test out		
21. Back Rig	2.0	
TOTAL		

COSTS

DAILY 40 436
CUMULATIVE 966 753SUPERVISOR C. SANDERS

PARA-DRL_RPT.X18

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 79 02 6Y 06
Yr Mon Day Time

WELL NAME PARA RAIL ARROWHEAD LOCATION 0-15-60'-20' 123'-12'

OPERATIONS DETAIL:

DIRECTIONAL DRILL & SURVEY 216 AM HWE.
DEVIATION HELD GOOD FOR 50' THEN STARTED DRIFTING
AGAIN. HOLE DRAG STILL INCREASING. GETTING CLOSE TO D.C. NUTS.
HAB N.E.B. INSPECTION - NO BAA COMMENTS.
RIG JACKERS IN & LEVELLED RIG.

WANT LIST:

WEATHER: 0/Cs. Light Sct. Tsm - 24

ROAD: Good

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

HAULED IN 75 ST 177 AM CSE

PARA-DRL_RPT2.xls



FIELD SERVICE REPORT "OIL MUD"

Division of Baker Hughes Canada Inc.

Job #

285

DATE	2/4/99	CHECK NUMBER	19
SPUD DATE	1/17/99	DAYS FROM SPUD	18
PRESENT ACTIVITY		drilling	
HOLE DEPTH		2nd intermediate	

OPERATOR	PARAMOUNT RESOURCES	CONTRACTOR	PRECISION DRILLING	RIG NO.	507
----------	---------------------	------------	--------------------	---------	-----

REPORT FOR	Mr. GERRY SANDERS	REPORT FOR	Mr. PETE HUSTON
------------	-------------------	------------	-----------------

WELL NAME AND LOCATION	PARAMOUNT BERKLEY(0-15) - 60 - 24 - 54 - N W M	PROVINCE	NWT
------------------------	--	----------	-----

LOCATION		BIT RECORD		DRILLING ASSEMBLY ID(OD)(mm)-Lm (m)			HOLE or CASING ID(mm) WOG (m)-Lm (m)		CASING PROGRAM ID(OD)(mm)-Lm (m)		ANNULAR VELOCITY m/min Flow-Drop (m)		PUMP PERFORMANCE		
W/ NO	3	PIPE	95.0	114.0	2329	225.0	1198	Cond		34.5	LA	1198	PUMPS 1+3	MODEL	MODEL
		908 mm	216					Surf.	0	33.7	LA	2384			
		TYPE	MF2P	HWI	70.0 <td>114.0</td> <td>55</td> <td>Interm</td> <td>228.0</td> <td>34.4</td> <td>LA</td> <td>2526</td> <td>LINEAR RZE</td> <td>152 / 203</td> <td>140 / 203</td>	114.0	55	Interm	228.0	34.4	LA	2526	LINEAR RZE	152 / 203	140 / 203
NO Z 1 7 2	1	11.9	DC					Interm					DISPLCMT PER STR m³	0.0105	0.0089
	2	11.9	DC	57.0	171.0	142		Under					STROKES PER MIN	97	
	3	11.9	DC				216.0	3.0%	1330	Prod			OUTPUT m³/min	1.0185	
	4												PRESSURE PSI		8880
		MUD SYSTEM VOLUMES	UPEN MOLE	ANN	CSG. CAP.	PIPE CAP.	TANK	TOTAL	VOL DISP. /ED	DR. RATE /min					
		m³	53.7	73.7	47.8	17.1	85.3	148.1							

DEPTH (m)	2201	DRILLING AND SOLIDS CONTROL EQUIPMENT	VE READING	143
-----------	------	---------------------------------------	------------	-----

SHAKER 1		SHAKER 2		DESANDER		DESILTER		CENTRIFUGE		CENTRIFUGE	
TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
SWACO	SWACO	UF DENS	UF DENS	COYOTE	COYOTE						
SCREEN SIZE	SCREEN SIZE	OF DENS	OF DENS	OF DENS	OF DENS						
140	140	1810	1780								
SCREEN SIZE	SCREEN SIZE	OF DENS	OF DENS	OF DENS	OF DENS						
110	110	980	885								
SCREEN SIZE	SCREEN SIZE	UP RATE L/min	UP RATE L/min	UP RATE L/min	UP RATE L/min						
3 SCREEN SIZE	3 SCREEN SIZE	1	1	1	1						
		24	24	24	24						

TIME 28	4:30	HTMP FLT cm	14.000	FAC. MUD	0.72	LOSS ON CMT.		TRUE VERT. DEPTH	2524
DEATH DEPTH	2476	FLIT CAKE mm	350(100)	F.A.G. CUTTINGS	0.7	DUG GSS ON CENT.		HORIZONTAL REACHING	
DEPTH		SULFIDES mg/L	0.000	REMARKS (TIME BREAKDOWN, PROBLEM, HOLE CONDITIONS, BRIDGES, FULL MAKE-UP WATER, MUD/IT DIFFERENCES)				DRAG UP	6000-2500
FLOWLINE TEMP °C	46	NIS CC	8.0					DRAG DOWN	5000-16000

02/03/99: drill 216mm directional hole from 2404m to 2508m. torque and drag increase.

LOSSES -centrifuge 1m3 shaker. 7m3 .5m3 hole

GRADIENT	9.859	VERSENA TE CC	1.4	INVERT VOLUME CONTROL	
WATER	24884	S. NITRATE CC	0.00	PREV. ACTIVE S	0.0
E.C.D. kg/m³	1020	Ca mg/L (Wp)	372333.3	INVERT ADD	(2) 0.0
ANK. M.C.C. LOSS	362	Ca(NO3)2 mg/L (Wp)	0.0	DIESEL ADD	(3) 0.0
PUMPED VOLUME	51	Ca(NO3)2% (Wp)	0.0%	BRINE ADD	(4) 0.0
		NO3 mg/L (Wp)	0.0	PRODUCT ADD	(5) 0.0
		Ca mg/L (V/p)	432333.3	INVERT REC	(6) 0.0
		CaCl2% (V/p)	40.4%	ACTUAL PRESENT VOL	(7) 146.3

PREV. ACTIVE S	0.0	WHIMIS	PROTECTIVE CLOTHING AND WHEN MAKING CHANGES, REFER TO MAKE SURE THE PLAN FOR THE
----------------	-----	--------	--

RECOMMENDATIONS:

--- ABSOLUTELY NO UNREQUESTED WATER OR STEAM ON OR NEAR THE MUD TANKS ---

FOR TODAY PLEASE ADD 1 CARBO-MUL OVER 2 CIRCULATIONS 1 CHEM BARREL OF WATER / GEL FOR A TOTAL OF 6 CHEM BARRELS PLEASE ADD AS EVENLY AS POSSIBLE. ALSO PLEASE ADD 3 CAL CARB AND 3 SOLUFLAKE FOR SEEPAGE LOSSES. REPEAT AS REQUIRED.

1. Maintain the density as low as possible (OR AS PER ENGINEERS REQUEST) by running the centrifuges as required. Please record hours ran, overflow, underflow, and L/P of underflow in the tour book!!!
2. If seepage losses are encountered mix SoluFlake F, Walnut F, and Ultraeal XP at a 1:1:1 ratio at 10-15 min/sx over a full circulation until losses are healed.
3. If we start to gain more than .5m3/hr increase the density by 10-15 points/lite to stop the water influx. (Water influx will also cause an increase in viscosity) Mixing 35-40 sx/circ will increase the density by 10 points.
4. If increasing the density mix 1 Carbo-Mul for every 300 sx of Barite mixed.
5. If H2S is encountered mix 20 sx of lime and 6-8 pails of HSO 600 over a full circulation.
6. PLEASE USE ALL BROKEN BAGS AND OPENED PALLETS FIRST

ANY PROBLEMS OR QUESTIONS PLEASE GIVE ME A CALL !!!!

THANKS, MIKE

DATE	2/4/99	PHONE	(403) 266-2422	MOBILE	(403) 618-2422
BY	MIKE SOUTHERN	WAREHOUSE	Fort Nelson	PHONE	(604) 774-7663
PRODUCT COST SINCE LAST CHECK	\$381.20	PRODUCT COST TO DATE	\$12,924.05		
TOTAL SERVICE COST TO DATE	\$3,850.00	TOTAL COST TO DATE	\$16,774.05		

IN CONSIDERATION OF THE FURNISHING OF THIS REPORT AND ORAL SUGGESTIONS, IT IS AGREED THAT NO RECOMMENDATIONS MADE HEREON SHALL BE CONSTRUED AS AUTHORIZING THE LIABILITY OF ANY VALID PATENT, AND IT IS AGREED THAT BAKER HUGHES INTEQ SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE FURNISHING OF THIS REPORT AND ORAL SUGGESTIONS AND IS TO BE HELD HARMLESS.

NOTE: WOG = WATER OIL GEL; MWT = WATER MUD; T = TRANSITIONAL; TR = TRANSITIONAL; P = PUMP; F = FLOW

February 4, 1999
3:41 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 43.9100
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRK\9177 SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
67	2216.00	2.40	220.20	2213.88	5.40	15.00	14.29	1.48	-1827.18
68	2225.70	2.50	221.20	2223.57	5.09	14.73	13.88	0.34	-1836.87
69	2235.45	2.60	219.40	2233.31	4.78	14.45	13.45	0.39	-1846.61
70	2245.14	2.60	220.60	2242.99	4.42	14.17	13.01	0.17	-1856.29
71	2254.84	2.30	238.30	2252.68	4.15	13.86	12.60	2.50	-1865.98
72	2264.67	2.80	254.80	2262.50	3.99	13.46	12.20	2.70	-1875.80
73	2274.30	4.30	262.90	2272.11	3.88	12.87	11.72	4.92	-1885.41
74	2284.01	5.30	260.80	2281.79	3.76	12.07	11.08	3.14	-1895.09
75	2293.83	5.70	257.60	2291.56	3.58	11.14	10.31	1.54	-1904.86
76	2303.52	6.20	255.40	2301.20	3.35	10.17	9.46	1.70	-1914.50
77	2312.93	6.40	258.20	2310.55	3.11	9.16	8.60	1.17	-1923.85
78	2324.75	5.50	254.20	2322.31	2.83	7.97	7.56	2.51	-1935.61
79	2332.57	5.00	251.00	2330.10	2.61	7.29	6.94	2.22	-1943.40
80	2341.88	5.30	250.00	2339.37	2.33	6.50	6.19	1.01	-1952.67
81	2351.56	5.60	249.90	2349.00	2.02	5.64	5.36	0.93	-1962.30
82	2361.73	5.40	258.40	2358.63	1.76	4.75	4.57	2.60	-1971.93
83	2370.91	4.50	262.40	2368.27	1.62	3.93	3.89	2.99	-1981.57
84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.36	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	2.91	1.73	-2000.81
86	2399.90	2.20	257.00	2397.21	1.31	2.30	2.54	2.48	-2010.51
87	2409.26	1.10	260.10	2406.57	1.25	2.04	2.31	3.54	-2019.87
88	2418.99	0.50	289.70	2416.30	1.25	1.90	2.22	2.19	-2029.60
89	2428.81	1.00	306.70	2426.12	1.32	1.79	2.19	1.66	-2039.42
90	2438.08	1.30	319.10	2435.39	1.44	1.66	2.19	1.26	-2048.69
91	2447.41	1.30	346.00	2444.71	1.63	1.57	2.26	1.94	-2058.01
92	2457.05	1.30	54.30	2454.35	1.80	1.83	2.42	4.54	-2067.65
93	2466.41	1.80	74.30	2463.71	1.90	1.86	2.65	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.90	0.93	-2086.82
95	2485.95	1.90	95.70	2483.24	1.96	2.45	3.11	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.86	2.81	3.29	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.42	4.13	-2115.52

Closure is 3.6406 Meters on an azimuth of 64.0758



Drilling Services

a subsidiary of A Resources N.A. Ltd. (NYSE: ARS)

Daily Activity Report

Day 10 - 1999/02/03

FILE #: 9177P

COMPANY: Paramount Resources Ltd.

SURFACE LOCATION: Lat 80 24' Long 123 02'

WELL NAME: Pajumout Berkley Arrowhead 0-15

SURVEY SERVICE CO.: United GeoCom

DAY #: 10 DATE: 1999/02/03

GROUND ELEV: 380.5

START DEPTH: 2404.0

PREVIOUS COST: \$72091.25

KB ELEV: 386.7

END DEPTH: 2507.0

DAILY COST: \$7897.80

CO. REP: Wilbert Callhoo

RIG & NO: Precision 507

JOB TYPE: Directional

SURVEY TYPE: Mud Pulse MWD

AVG. ROP.: 5.42

PROGRESS(m): 103.0

TOTAL COST: \$80088.75

TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA	TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA
00:00 TO 04:15	Directional Drill	2423	3	15:15 TO 17:15	Rig Repair - Jack Rig	2478	3
04:15 TO 07:15	Directional Drill	2423	3	17:15 TO 17:30	Directional Unit	2480	3
07:15 TO 08:00	Circ & Accumulate Surveys	2442	3	17:30 TO 17:45	Rig Service	2480	3
08:00 TO 11:15	Directional Drill	2442	3	17:45 TO 23:15	Directional Drill	2507	3
11:15 TO 15:15	Circ & Accumulate Surveys	2478	3	23:15 TO 24:00	Circ & Accumulate Surveys	2507	3
14:15 TO 15:15	Circ & Accumulate Surveys	2478	3				

TIME SUMMARY (hrs):

MOTOR DRILL: 18.00 ROTARY DRILL: 0.00 TRIP: 0.00

TIME DRILL: 0.00 OTHER: 2.50

REAM: 0.00

CIRC: 2.50

MOTOR HRS: 21.50 DRILL HRS: 18.00 TOTAL HRS: 24.00

DRILLING PARAMETERS:

TORQUE: 0

WOB SLIDING (HI): 20

WOB SLIDING (LO): 18

RPM (ROTARY): 35

RPM (MOTOR): 75

WOB ROTATE (HI): 18

WOB ROTATE (LO): 15

DRAG UP: 25

DRAG DN: 15

BHA / MOTOR INFORMATION:

BHA: 3

MANFCT: Black Max

SETTING: 1.83

HOLE SIZE: 215

SERIAL #: 850-800

SIZE: 6 1/2" (165mm)

SECTION TYPE: Main Hole

MODEL: Comm III

MTR HRS THIS DAY: 21.5

LOBE CFG.: 7/8

MTR HRS TO DATE: 73.75

PUMP PARAMETERS

PRESSURE ON BTM(KPa): 9500		PRESSURE OFF BTM(KPa): 8000		TOTAL FLOW RATE(m3): 1.10	
PUMP 1:	TYPE: A-600-P	SPM: 0.00	LINER: 0.00	STROKE VOL.: 0.0000	
PUMP 2:	TYPE: A-600-PT	SPM: 105.00	LINER: 152.00	STROKE VOL.: 0.0001	
PUMP 3:	TYPE:	SPM: 0.00	LINER: 0.00	STROKE VOL.: 0.0000	

MUD RECORD

MUD TYPE: UBD Diesel	VISC: 50	WTR LOSS: 0	FV: 9	YP: 1.44	pH: 0
DENSITY(kg/m3): 1000	SAND: 0.005	SOLIDS: 7.700	OIL: 90.500	TEMP: 0	
LIQUID TYPE: Cutter D	LIQUID RATE: 1.1	GAS TYPE:	GAS RATE: 0		

COMMENTS:

DIR. SUPERVISOR: John Webb

DIR. SUPERVISOR:

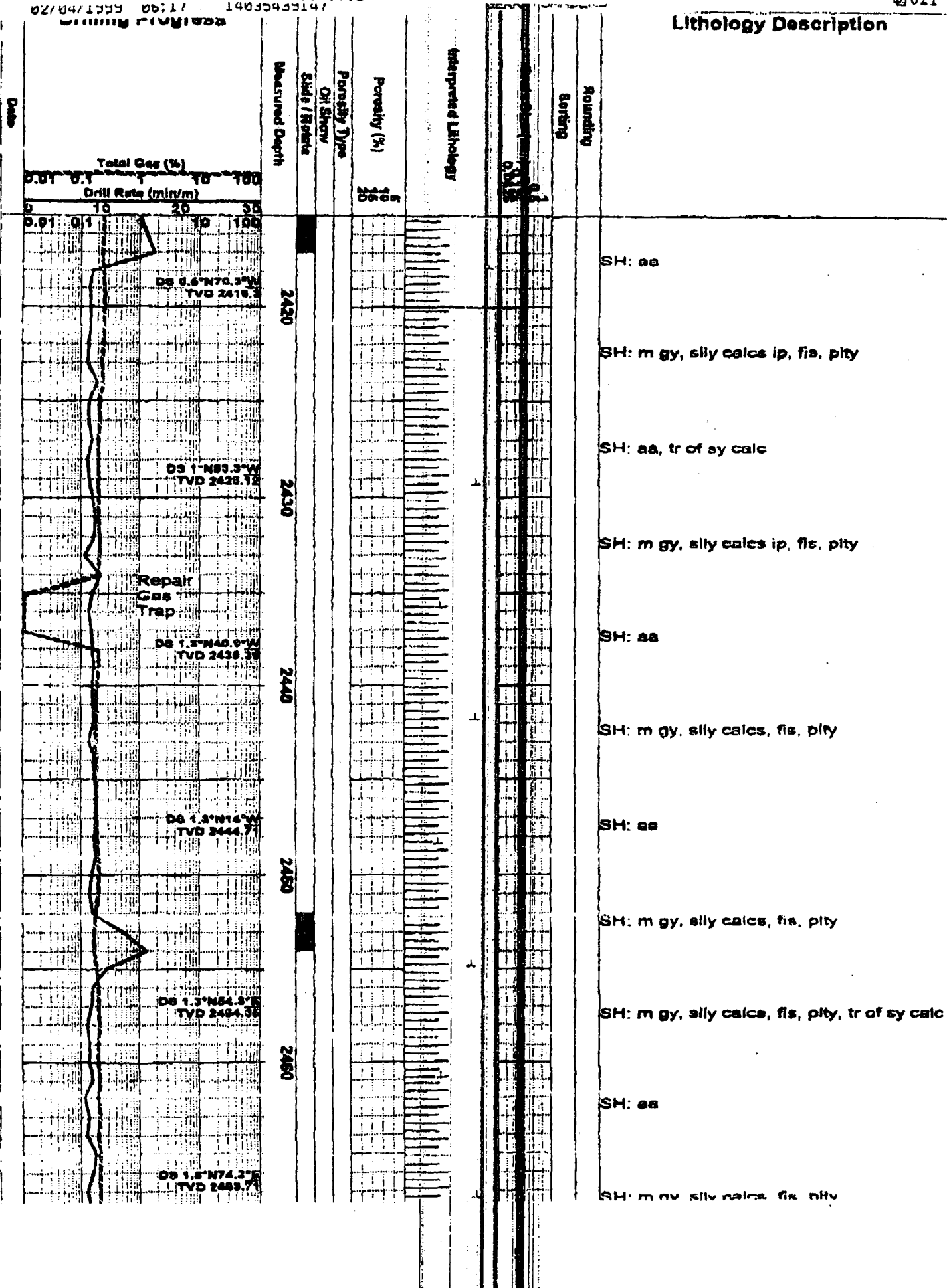
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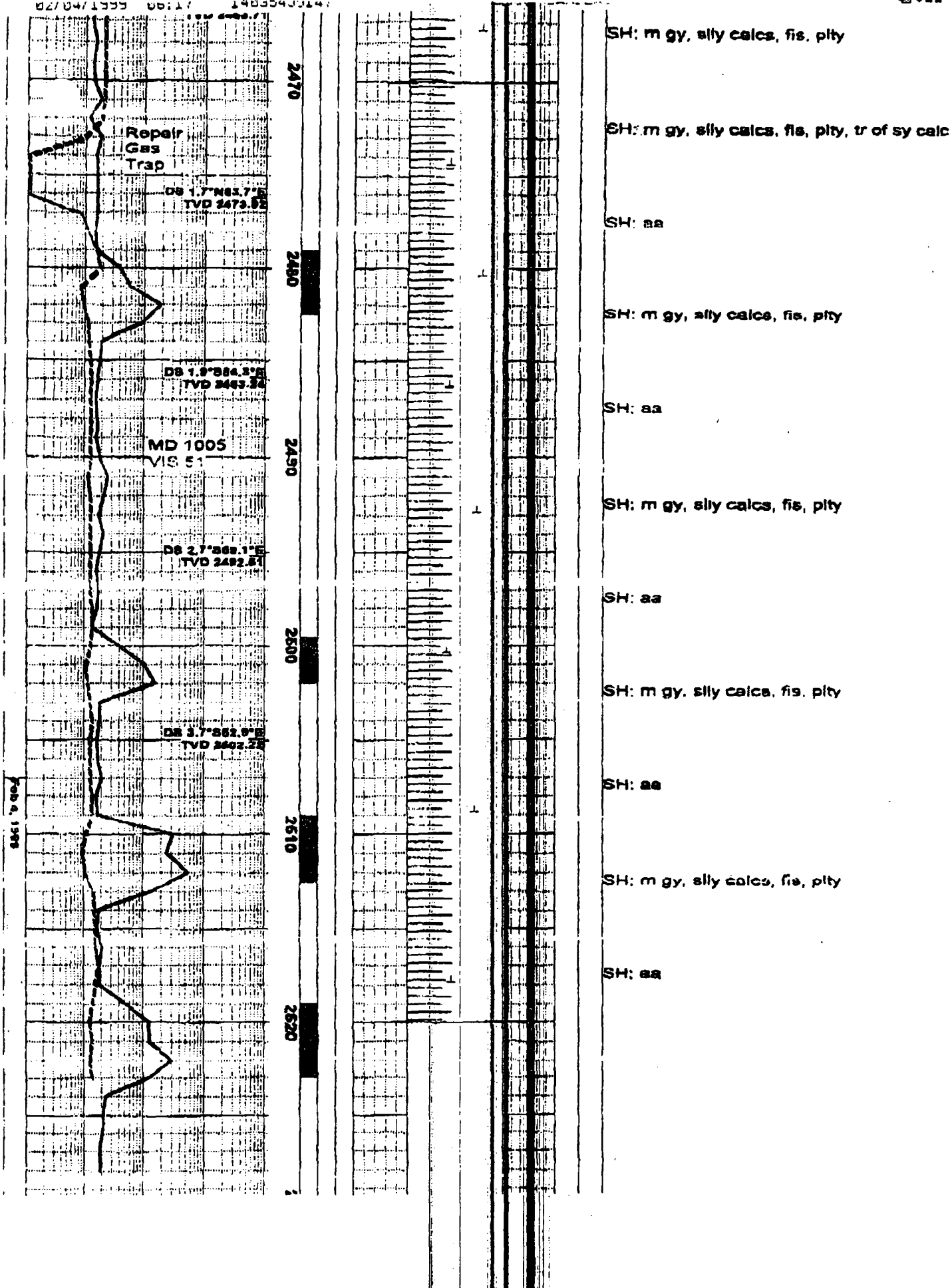
Printed: 1999/02/04 3:41:25 AM

File #9177P - Daily Activity Report

Page 1

Lithology Description





February 4, 1999

PathTracker 4.0

Page 1 of 1

3:42 am

Survey Calculation Program

UNITED GEOCOM DRILLING SERVICES

Customer: PARAMOUNT RESOURCES LTD.
 WellName: Paramount Berkley Arrowhead 0-15
 Location: Lat 60 24' Long 123 02'
 Co Rep: Wilbert Callihoo
 File #: 9177p

Vertical Section Calculated on: 43.9100

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
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69	2235.45	2.60	219.40	2233.31	4.76	14.45	13.45	0.39	-1846.61
70	2245.14	2.60	220.60	2242.99	4.42	14.17	13.01	0.17	-1856.29
71	2254.84	2.30	238.30	2252.68	4.16	13.86	12.60	2.60	-1865.98
72	2264.87	2.80	254.80	2262.50	3.88	13.46	12.20	2.70	-1875.80
73	2274.30	4.30	262.90	2272.11	3.68	12.87	11.72	4.92	-1885.41
74	2284.01	5.30	260.80	2281.79	3.76	12.07	11.08	3.14	-1895.09
75	2293.83	5.70	257.60	2291.56	3.58	11.14	10.31	1.54	-1904.86
76	2303.52	6.20	255.40	2301.20	3.35	10.17	9.46	1.70	-1914.60
77	2312.93	6.40	258.20	2310.55	3.11	9.16	8.60	1.17	-1923.85
78	2324.75	5.50	254.20	2322.31	2.83	7.97	7.56	2.51	-1935.61
79	2332.57	5.00	251.00	2330.10	2.61	7.29	6.94	2.22	-1943.40
80	2341.88	5.30	250.00	2339.37	2.33	6.50	6.19	1.01	-1952.67
81	2351.56	5.60	249.90	2349.00	2.02	5.64	5.36	0.83	-1962.30
82	2361.23	5.40	258.40	2358.63	1.76	4.75	4.57	2.60	-1971.93
83	2370.91	4.50	262.40	2368.27	1.62	3.93	3.89	2.99	-1981.57
84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.36	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	2.91	1.73	-2000.81
86	2399.90	2.20	257.00	2397.21	1.31	2.30	2.54	2.48	-2010.51
87	2409.26	1.10	260.10	2406.57	1.25	2.04	2.31	3.54	-2019.87
88	2418.99	0.50	289.70	2416.30	1.25	1.90	2.22	2.19	-2029.60
89	2428.81	1.00	306.70	2426.12	1.32	1.79	2.19	1.68	-2039.42
90	2438.08	1.30	319.10	2435.39	1.44	1.66	2.19	1.26	-2048.69
91	2447.41	1.30	346.00	2444.71	1.63	1.57	2.26	1.94	-2058.01
92	2457.05	1.30	54.30	2454.35	1.80	1.63	2.42	4.54	-2067.65
93	2466.41	1.80	74.30	2463.71	1.90	1.86	2.65	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.90	0.93	-2086.82
95	2485.95	1.90	95.70	2483.24	1.96	2.45	3.11	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.86	2.81	3.29	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.42	4.13	-2115.52

Closure is 3.6406 Meters on an azimuth of 64.0758

780-466-6002

February 4, 1999
3:41 amPathTracker 4.5
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
 WellName: Paramount Berkley Arrowhead 0-15
 Location: Lat 60 24' Long 123 02'
 Co Rep: Wilbert Callihoo
 File #: 9177p
 Vertical Section Calculated on: 43.9100
 Survey Calculation Method: Minimum Curvature
 FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
67	2216.00	2.40	220.20	2213.88	5.40	15.00	14.29	1.48	-1827.18
68	2225.70	2.50	221.20	2223.57	5.09	14.73	13.88	0.34	-1836.87
69	2235.45	2.60	219.40	2233.31	4.76	14.45	13.45	0.39	-1848.61
70	2245.14	2.80	220.60	2242.99	4.42	14.17	13.01	0.17	-1856.29
71	2254.84	2.30	238.30	2252.68	4.15	13.86	12.60	2.50	-1865.98
72	2264.67	2.80	254.80	2262.50	3.99	13.46	12.20	2.70	-1875.80
73	2274.30	4.30	263.90	2272.11	3.88	12.87	11.72	4.92	-1885.41
74	2284.01	5.30	260.80	2281.79	3.76	12.07	11.08	3.14	-1895.09
75	2293.83	5.70	257.60	2291.58	3.58	11.14	10.31	1.54	-1904.86
76	2303.52	6.20	255.40	2301.20	3.35	10.17	9.46	1.70	-1914.50
77	2312.93	6.40	258.20	2310.55	3.11	9.16	8.60	1.17	-1923.85
78	2324.75	5.60	254.20	2322.31	2.83	7.97	7.56	2.51	-1935.61
79	2332.57	5.00	251.00	2330.10	2.61	7.29	6.94	2.22	-1943.40
80	2341.88	5.30	250.00	2339.37	2.33	6.50	6.19	1.01	-1952.67
81	2351.56	5.60	249.90	2349.00	2.02	5.64	5.38	0.93	-1962.30
82	2361.23	5.40	258.40	2358.63	1.76	4.75	4.57	2.60	-1971.93
83	2370.91	4.50	262.40	2368.27	1.62	3.93	3.89	2.99	-1981.57
84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.36	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	2.91	1.73	-2000.81
86	2399.90	2.20	257.00	2387.21	1.31	2.30	2.54	2.48	-2010.51
87	2409.26	1.10	260.10	2406.57	1.25	2.04	2.31	3.54	-2019.87
88	2418.99	0.50	289.70	2416.30	1.25	1.90	2.22	2.19	-2029.80
89	2428.81	1.00	306.70	2426.12	1.32	1.79	2.19	1.88	-2039.42
90	2438.08	1.30	319.10	2435.39	1.44	1.66	2.19	1.26	-2048.69
91	2447.41	1.30	346.00	2444.71	1.63	1.57	2.26	1.94	-2058.01
92	2457.05	1.30	54.30	2454.35	1.80	1.63	2.42	4.54	-2067.65
93	2466.41	1.80	74.30	2463.71	1.90	1.86	2.65	2.34	-2077.01
94	2476.23	1.70	83.70	2473.52	1.96	2.15	2.90	0.93	-2086.82
95	2485.95	1.80	95.70	2483.24	1.98	2.45	3.11	1.31	-2096.54
96	2495.23	2.70	110.90	2492.51	1.86	2.81	3.29	3.23	-2105.81
97	2504.95	3.70	127.10	2502.22	1.59	3.27	3.42	4.13	-2115.57

Closure is 3.6406 Meters on an azimuth of 64.0758



FIELD SERVICE REPORT "OIL MUD"

DATE 2/4/99		CHECK NUMBER 19	
SPUD DATE 1/17/99		DAYS FROM SPUD 18	
PRESENT ACTIVITY		HOLE SECTION	
HOLE SECTION		2nd Intermediate	
OPERATOR		PRECISION DRILLING	
PARAMOUNT RESOURCES		RIG NO 507	
REPORT FOR: Mr. GERRY SANDERS		REPORT FOR: Mr. PETE HUSTON	
WELL NAME AND LOCATION: PARAMOUNT BERKLEY(O-15)		54 - N W M PROVINCE NWT	
BIT RECORD		DRILLING ASSEMBLY	
BIT NO 5		PIPE 95.0 (114.0) 2329	
SIZE 216		HOLE 225.0 (119.0) 1190	
TYPE MF2P		HWT 70.0 (114.0) 55	
11.9		DC 57.0 (171.0) 142	
2 11.9		DC 216.0 (50.0) 1330	
3 11.9		MUD SYSTEM VOLUMES	
4		OPEN HOLE 53.7	
5		ANN 73.7	
6		CSC 47.8	
7		PIPE CAP 17.1	
8		TANK 56.3	
9		TOTAL 148.6	
10		TOTAL 148.6	
11		TOTAL 148.6	
12		TOTAL 148.6	
13		TOTAL 148.6	
14		TOTAL 148.6	
15		TOTAL 148.6	
16		TOTAL 148.6	
17		TOTAL 148.6	
18		TOTAL 148.6	
19		TOTAL 148.6	
20		TOTAL 148.6	
21		TOTAL 148.6	
22		TOTAL 148.6	
23		TOTAL 148.6	
24		TOTAL 148.6	
25		TOTAL 148.6	
26		TOTAL 148.6	
27		TOTAL 148.6	
28		TOTAL 148.6	
29		TOTAL 148.6	
30		TOTAL 148.6	
31		TOTAL 148.6	
32		TOTAL 148.6	
33		TOTAL 148.6	
34		TOTAL 148.6	
35		TOTAL 148.6	
36		TOTAL 148.6	
37		TOTAL 148.6	
38		TOTAL 148.6	
39		TOTAL 148.6	
40		TOTAL 148.6	
41		TOTAL 148.6	
42		TOTAL 148.6	
43		TOTAL 148.6	
44		TOTAL 148.6	
45		TOTAL 148.6	
46		TOTAL 148.6	
47		TOTAL 148.6	
48		TOTAL 148.6	
49		TOTAL 148.6	
50		TOTAL 148.6	
51		TOTAL 148.6	
52		TOTAL 148.6	
53		TOTAL 148.6	
54		TOTAL 148.6	
55		TOTAL 148.6	
56		TOTAL 148.6	
57		TOTAL 148.6	
58		TOTAL 148.6	
59		TOTAL 148.6	
60		TOTAL 148.6	
61		TOTAL 148.6	
62		TOTAL 148.6	
63		TOTAL 148.6	
64		TOTAL 148.6	
65		TOTAL 148.6	
66		TOTAL 148.6	
67		TOTAL 148.6	
68		TOTAL 148.6	
69		TOTAL 148.6	
70		TOTAL 148.6	
71		TOTAL 148.6	
72		TOTAL 148.6	
73		TOTAL 148.6	
74		TOTAL 148.6	
75		TOTAL 148.6	
76		TOTAL 148.6	
77		TOTAL 148.6	
78		TOTAL 148.6	
79		TOTAL 148.6	
80		TOTAL 148.6	
81		TOTAL 148.6	
82		TOTAL 148.6	
83		TOTAL 148.6	
84		TOTAL 148.6	
85		TOTAL 148.6	
86		TOTAL 148.6	
87		TOTAL 148.6	
88		TOTAL 148.6	
89		TOTAL 148.6	
90		TOTAL 148.6	
91		TOTAL 148.6	
92		TOTAL 148.6	
93		TOTAL 148.6	
94		TOTAL 148.6	
95		TOTAL 148.6	
96		TOTAL 148.6	
97		TOTAL 148.6	
98		TOTAL 148.6	
99		TOTAL 148.6	
100		TOTAL 148.6	

02/02/99 drill 216mm diameter hole from 2404m to 2500m torque and drag increase.

LOSSES -centrifuge 1m3/hr 7m3.5m3 hole

WHY: PROVED THE LOSS OF MATERIAL DURING CHEMICALS. REFER TO MUDS LABELS FOR FURTHER INFORMATION.

RECOMMENDATIONS:

ABSOLUTELY NO UNTESTED WATER OR STEAM ON OR NEAR THE MUD TANKS

FOR TODAY PLEASE ADD CARBO-MUL OVER 2 CIRCULATIONS 1 CHEM BARREL OF WATER / 1 CHEM BARREL A TOTAL OF 6 CHEM BARRELS PLEASE ADD AS EVENLY AS POSSIBLE ALSO PLEASE ADD 3 CAL CARB AND 3 SOLUFLAKE FOR SEEPAGE LOSSES. REPEAT AS REQUIRED.

1. Maintain the density as high as possible (OR AS PER ENGINEERS REQUEST) by running centrifuges as required. Please record hours ran, overflow, underflow, and pump underflow in the tour book!!!
2. If seepage losses are encountered mix SoluFlake F, Walnut F, and Ultraseal XP at a 1:1:1 ratio at 0.5m3/sx over a full circulation until losses are heaped.
3. If we start to get more than 5m3/hr increase the density by 10-15 points/circ to stop the water influx. (Water influx will also cause an increase in viscosity) Mixing 35-40 sx/sx will increase the density by 10 points.
4. If increasing the density in Carbo-Mul for every 300 sx of Barite mixed.
5. If H2S is encountered mix 1 sx of lime and 6-8 pails of HSO 600 over a full circulation.
6. PLEASE USE ALL BROCK BAGS AND OPENED PALLETS FIRST.

ANY PROBLEMS OR QUESTIONS PLEASE GIVE ME A CALL!!!!

THANKS, MIKE

NAME: MIKE SANDERS	PHONE: (403) 218-2225	MOBILE: (403) 218-2225
ADDRESS: Fort Nelson	PHONE: (403) 218-2225	
PRODUCT COST BASED ON QUANTITY	20	PRODUCT COST TO DATE \$12,924.66
TOTAL BARRELS COST TO DATE	20.00	TOTAL COST TO DATE \$18,774.65

BY SIGNATURE OF THE FURNISHING OF THIS REPORT AND ORAL SUGGESTIONS, IT IS AGREED THAT BAKER HUGHES INTEC SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE FURNISHING OF THIS REPORT AND SUGGESTIONS MADE HEREON SHALL BE CONSIDERED AS AUTHORIZING THE USER TO MAKE ANY CHANGES TO THE REPORT AND SUGGESTIONS MADE HEREON.

Geological Morning Report**Feb 04, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 18
Target Location: O-15

Date: Feb 4, 1999
Time: 06:00 hrs
Hours Drilling: 17

Depth: 2528m
Progress: 96m
Average ROP: 5.6m / hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill, Jack rig, Drill directional hole

Remarks: Shale. Calcareous shale. No gas shows. Loggers alerted for Saturday.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 77-02-03 08:00
Yr. Mon. Day-Time

WELL NAME PARA RAIL ARROWHEAD LOCATION 0-15-60'30'128'02
 Day 17 Depth 2431 Meters last 24 hr 95 Rotating hrs 21
 Activity at report time DIRECTIONAL DRILLING 216mm Hdg. ~ 2431m ~ SL ~

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 1.000 Vis 53 WL _____ Gels 1.0/2 Solids 80 % PV 9.0 YP 1.44 pH
 Oil 90.5 % Sand .005 % Cake 2 PPMCL 466666.7 PPMCa 266666.7

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	IN HOLE TODAY	CUM m. DRID	Rot hrs TODAY	CUM. Rot hr	m/hr	Drill Cond.		
				WT	RPM							T	D	G
5	216	SICMARP	LT1582	1418	3745		95	230	21	524	4.4	0	8	

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP			LINE VEL		JET VEL.	RHT	SURF. PRESS. kPa
	1	2	3		SPM	LINER	m/MIN	DP	DC			
5	11.9	11.9	11.9	203	105	62	11	44	84	57		9260

DEVIATION SURVEYS

at _____ m	at _____ m
at _____ m	at _____ m
at _____ m	at _____ m
at _____ m	at _____ m

MUD & CHEMICALS ADDED

50.0 PAPER 75
1.0 PAPER 85
1.0 PAPER 180

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
BIT		216	24		1 Drilling <u>DIRECTIONAL</u>	21	
1- MOTOR		146	6.18		2 Tops		
1 FLOAT SUB		160	.48		3 Rig Service	.50	
1 MWD NON MAG		168	9.44		4 Deviation Surveys	2.50	
1 PULSER 500		160	1.14		5 Ram & Conn. Hole		
1 1/2" MAG DC		158	9.40		6 Mix & Cond. Mud		
1 X0 SUB		170	1.14		7 Circulation		
3 DRILL COLLARS		170	28.76		8 Rig Repair		
1 DRILLING SHR		170	3.86		9 Run Casing & Cement		
12- DRILL COLLARS		170	43.36		10 Fishing		
1 X0 SUB		164	1.58		11 Logging		
1 MWD DC		114	54.98		12 Casing		
					13 Formation Testing		
					14 Mailing up		
					15 Nipple Up & Test BOPS		
					16 Drilling Out		
					17 Test Circ.		
					18 Laying Down DR & BOP's		
					19 Plug & Abandon		
					20 Rig up - Tear out		
					21		
					TOTAL	24	

COSTS

DAILY 43211
 CUMMULATIVE 926322

SUPERVISOR

C. SANDER

PARA-DRILL-RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING: 99 02 23 12:00
Yr - Mon - Day - Time

WELL NAME PARA REAL ARROWHEAD LOCATION 0-15-60°-50' 628' 02"

OPERATIONS DETAIL:

DIRECTIONAL DRILL & SURVEY RIG -
HOLE STILL SEARCHING FOR HYDROCARBONS. IT THINKS IT
IS TO THE N.E.
RIG SERVICES & FUNCTION TEST PIPE RAN & SEC. ARROWHEAD 12 SEC
MOTOR KILLS FUNCTION OK.

HOLE DRAG IS STILL INCREASING. HAS NO CONSIDERABLE DRAG.
MORE LIKE WHAT YOU'D FIND ON FIRST TRIP OUT OF HOLE W/ BIT.

WANT LIST:

WEATHER: 5/CAST WIND SW @ 6 km

ROAD: GOOD

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS WHERE, WHEN, HOW

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99 02 01 2400
Yr Mon Day Time

WELL NAME PARA FISH Arrowhead LOCATION 0-15 60-30-121-02
 Day 16 Depth 2336 m Metres lost 24 hr 117 Rotating hrs 21
 Activity at report time DRILLING

DRILLING MUD PROPERTIES AT SHAKERS/SUCTION/PIT

WI 1000 Vis 50 WL Gels 14/30 Solids 6.5 % PV 10 YP 444 pH
 Oil 91 % Sand 1005 % Cake 2 PPMCL PPMCa 224000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cuts		
				WT	RPM							T	B	G
5	216	STC ME2P	KT1582	1417	30/15		117	135	21	39	3.3	0	0	

CIRCULATION RECORD

BIT NO.	JETS - mm			STROKE	PUMP		ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3		SPM	LINER m/MIN	DP	DC			
5	11.9	11.9	11.9	263	105	152	46	78			9200

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

Sols FLAKE P 5.5x 4000 5m
 Cal Chd 5.5x
 Circle 50.5x
 INVERT 10m

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
BIT		216	.24	
1 - MOTOR		166	6.18	
1 - FLOAT SUB		160	.48	
1 - MWD NON MAG		168	9.44	
1 - PULSER SUB		160	1.14	
1 - NON MAG DC		158	9.40	
1 - XO SUB		170	.44	
3 - DRILL COLLARS		170	28.76	
1 - DRILLING IRONS		170	5.86	
12 - DRILL COLLARS		170	113.36	
1 - XO SUB		164	.58	
1 - HEAVY WAG DP		114	54.90	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	21.00	
2. Trips		
3. Rig Service	.20	
4. Deviation Surveys	2.50	
5. Ream & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laylog Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21.		
TOTAL	24	

COSTS

DAILY 40 611
 CUMULATIVE 883111

SUPERVISOR

G. SAVOKE

PARA-DRL RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-02-01 5400
Yr - Mo - Day - HourWELL NAME PARA ETAL ARROW HORN LOCATION 0-15 - 60°38' 123° 02'

OPERATIONS DETAIL:

1-
DIRECTIONAL DRILL AHEAD TO 2264 m. Hole MAINTAINING DIB
AND ANGLE FIRMLY. TOOK NOSE DIVE @ 2274 DROPPED ANGLE AND PITCH
DIRECTION PUT IN PRETTY GOOD POP/EC. @ 2274m

WANT LIST:

WEATHER: CICOST - Calm - -29ROAD: FAIR

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA DRL RPT2 x15

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-31-24:00
Yr - Mo - Day - Time

WELL NAME Paramount atal Arrowhead LOCATION 0-15-100-30-1A2-02
 Day 15 Depth 2219 Metres last 24 hr 47 Rotating hrs 10
 Activity at report time Directional Drill 216mm Hole @ 2244 @ 07:00 Hrs.

DRILLING MUD PROPERTIES AT SHAKERSUCTION/TIT

Wt 985 Vls 57 WL 14 Gels 40/2.5 Solids 7.3 % PV 10 YP 1.44 pH
 Oil 0.2 % Sand .005 % Ckck 2 PPMCL 188000 PPMCs 225.000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	n DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	R	G
4	216	HC-GT9M	Y41CV	14.75	30-75	2201	29	574	5 1/2	84	6.12	23	4	TD
5	216	STR-MFAP	LT1582	14.12	30-75		18	18	4 1/2	4 1/2	4			R2120

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER m/MIN	DP	DC			
4	11.9	11.9	11.9	202	105	1.52	46	78			9200
5	11.9	11.9	11.9	203	105	1.52	46	78			9200

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

• at _____ m	• at _____ m	• at _____ m	• at _____ m
• at _____ m	• at _____ m	• at _____ m	• at _____ m
• at _____ m	• at _____ m	• at _____ m	• at _____ m
• at _____ m	• at _____ m	• at _____ m	• at _____ m

SoluFlake - 2.5ax Water - 1.59m³
 CalPack - 2.5ax
 CaCl₂ - 5.5ax
 Bante - 1.5ax

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION	TODAY	CUM.
1- Bit		216	.24		1. Drilling	10	
1- Drillstring		116	6.18		2. Trips	8 1/4	
1- Float Sub		116	.48		3. Rig Service	1/2	
1- MWD-Non Mag		162	9.44		4. Deviation Surveys <i>Directional</i>	23/4	
1- Pulsar Sub		116	1.14		5. Ream & Cond. Hole <i>Clean to Bot</i>	1/4	
1- Non Mag DC		158	9.40		6. Mix & Cond. Mud		
1- X O Sub		170	.44		7. Circulation	1 1/4	
3- Drill Collars		170	28.76		8. Rig Repair		
1- Drilling Tools		170	3.86		9. Run Casing & Cement		
12- Drill Collars		170	113.36		10. Fishing		
1- X O Sub		164	.58		11. Logging		
6- Hard Water Pipe		114	54.98		12. Coring		
2.05- Drill Pipe		114	1978.68		13. Formation Testing		
COSTS					14. Welding on:		
					15. Nipple Up & Test BOPS		
DAILY 4140.00					16. Drilling Out		
CUMMULATIVE 842500					17. Lost Circ.		
SUPERVISOR <u>Wilbert Callihan</u>					18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Plug up In case BOP Drills	1/2	
					21. Slip Cut Line	1/2	
					TOTAL		24

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-31-24:00
Yr-Mon-Day-TimeWELL NAME Paramount total blowhead LOCATION 0-15-60-30-122-02

OPERATIONS DETAIL:

Drill 214mm Hole directionally to 2001M at 05:45 Hrs - Line up Bottom Hole Sample - Pull out of Hole to change out down Hole Motor and Bit - Had 84 Hrs use on each - Both came out in Good Shape - Lay down Mud Motor - Pick up and Run in with New Mud Motor and Smith ME2 Bit - Went in Hole with No Problems - Mud Motor set @ 123° - Same as last Motor - Moved drilling Jaws down 1 Stand in BHA - Break Circ - Clean and Wash Jaws to Bottom - Directional Drill Ahead - Dropping Angle down Hole and direction dropping Back from Programmed Angles - Slide 3-4m per Single to build up Angle

Lots of Snow Yesterday Afternoon and Evening

WANT LIST:

WEATHER: 0cast-Calm-Cold -22°CROAD: Good on Highway - Fair to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARAMOUNT_RPT2.rls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-30-24:00
Yr - Mon - Day - TimeWELL NAME Paramount total Arrowhead LOCATION 0-15-60-30-122-02
Day 14 Depth 2172 Metres last 24 hr 107 Rotating hrs 20 3/4
Activity at report time Like Bottoms up Prior to Trip out @ 2200 @ 07:00

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PTT

Wt 975 Vis 49 WL 19 Gels 1.5/2.5 Solids 7.8 % PV 10 YP 96 pH
Oil 90 % Sand 10.5 % Cake 2 PPMCL 25000 PPMCa 200000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	R	C
4	216	HC-GT78M	X616U	12-1/2"	30-25	✓	107	485	20 3/4	7842	5.16	R009		

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS.	
	1	2	3	STROKE	S/M	LINER	m/MIN	DP	DC			kPa	
4	11.9	11.9	11.9	203	105	152	1.15	46	28			9100	

DEVIATION SURVEYS

°	at	m	°	at	m
°	at	m	°	at	m
°	at	m	°	at	m
°	at	m	°	at	m

MUD & CHEMICALS ADDED

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
1-Bit		216	1.24	
1-Drilling Motor		1165	6.18	
1-Float Sub		160	.48	
1-MudP-Mud Motor		168	9.44	
1-Pulser Sub		160	1.14	
1-Neck Motor		158	9.40	
1-XO Sub		170	.44	
6-Drill Collars		170	57.08	
1-Drilling Jar		170	3.86	
9-Drill Collars		170	85.44	
1-XO Sub		164	.58	
6-Hexilate Pipe		114	54.98	
200-Drill Pipe		114		

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	20 3/4	
2. Trips		
3. Rig Service	1/2	
4. Deviation Surveys		
5. Ream & Cond. Hole		
6. Mix & Cond. Mud		
7. Circulation		
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPS		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21. Directional Surveys	2 3/4	
TOTAL	24	

COSTS

DAILY 34500
CUMMULATIVE 801500SUPERVISOR Wilbert Callitua

PARA DRL_RPT.xls

PARAMOUNT RESOURCES LTD.**DAILY DRILLING REPORT (page 2)**FOR 24 HR PERIOD ENDING 99-01-30-24:00
Yr. Mon. Day TimeWELL NAME Paramount Arrowhead LOCATION 0-15-60-30-123-02**OPERATIONS DETAIL:**

Directional Drill Ahead in 81mm Hole - Using Both Mud Motor and some Rotating when drilling - Have Hole Angle built up in the 4-5° Range and Direction in the 240-245° Area Starting to go as per Program
 Since MWDs have drilled to 2201M - Circ Bottoms up Sample prior to Tripout - Tripping due to Hoses on Mud Motor and Bit - Will bring in another Mud Motor to keep on location as standby

WANT LIST:WEATHER: Overcast-Calm-Cold-26°CROAD: Good on Highway - Rough to Location**IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)**

PARA-DRL_RPT2.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-29 24:00
Yr - Mon - Day - TimeWELL NAME Paramount Horizontal LOCATION 0-15-60-30-123-00
Day 13 Depth 2065 Metres last 24 hr 74 Rotating hrs 12 1/2
Activity at report time Directional Drilling Hole 209201 @ 02:00 Hrs

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 980 Vis 57 WL 20 Gels 15/2.5 Solids 9.8 % PV 10 YP 1.5 pH
Oil 88 % Sand 0.05 % Case 2 PPMCL 240000 PPMCa 240000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	# DRLD TODAY	CUM. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	C
4	216	HC-GT18M	161011	12-1/2	30/95		74	328	12 1/2	57 1/4	5.92			Running

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			m³/MIN	ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER		IP	DC			
4	11.9	11.9	11.9	203	105	152	1.15	4 1/2	75			9100

DEVIATION SURVEYS

at	m	at	m
at	m	at	m
at	m	at	m
at	m	at	m

MUD & CHEMICALS ADDED

Bayte-15 Sack
Cutter 5' - 13m³

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION		TODAY	CUM.
1- Bit		216	1.24		1. Drilling		12 1/2	
1- Drilling Motor		165	6.15		2. Rips		7	
1- Float Sub		160	1.4		3. Rig Service		1/2	
1- MWD-Navigra		168	9.44		4. Deviation Surveys - Directional		2 1/4	
1- Pulsar Sub		160	1.14		5. Beam & Cond. Hole - Cleaned		1/4	
1- Gaslog 5'		158	9.40		6. Mix & Cond. Mud			
1- X0 Sub		170	1.4		7. Circulation		1	
6- Drill Collars		170	57.08		8. Rig Repair			
1- Drilling Jar		170	3.82		9. Run Casing & Cement			
9- Drill Collars		170	85.04		10. Fishing			
1- X0 Sub		164	1.38		11. Logging			
6- Heavy Weight		114	54.08		12. Coring			
189 - Drill Pipe		114	189.00		13. Formation Testing			

COSTS

DAILY 43500
CUMMULATIVE 767000

SUPERVISOR

Wilbert Callahan

TOTAL

1/2
24

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-22-24:00
Yr - Mon - Day - TimeWELL NAME Paramountal AheadLOCATION 0-15-60-90-123-00

OPERATIONS DETAIL:

Directional Drill Ahead - Hole Angle came back in to 1° From Vertical and direction turning the wrong way - At 195' and next 240° - Cize Bottoms up - Pull out of Hole - Change Angle on Mud Motor From 1.15° to 1.83° - Run Back in Hole - Test Mud Motor and all Clean out 20m to Bottom - Drill Ahead - Mud Motor has built up more Hole Angle and direction has turned to 247° - Getting back to Program Requirements - Since Midway to have Drilled Ahead with no Problems - Brought to Gen. Invert Mud From Storage at Base Camp - Sent out Load of Solids to Ft St-John

Weather getting colder - No wind but lower Temp

Bit and Mud Motor that were Pulled out of Hole + not a bit in Good Shape - Ran both back in Hole

WANT LIST:

WEATHER: Good on Hiway - Rough to LocationROAD: Clear Calm - Cold - 28°C

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report

Feb 03, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 Spud Date: Re-entry
Grid Area: 60° 30' 123° 00' Days from Entry: 17
Target Location: O-15

Date: Feb 3, 1999
Time: 06:00 hrs
Hours Drilling: 18.5

Depth: 2432m
Progress: 96m
Average ROP: 5.2m / hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill directional hole.

Remarks: Shale. Calcareous shale. No gas shows. Last survey was 2.4m from well floor. We'll try to hold it there. Should be done drilling in a couple days.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Geological Morning Report**Feb 02, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 16
Target Location: O-15

Date: Feb 2, 1999 **Depth:** 2336m
Time: 06:00 hrs **Progress:** 95m
Hours Drilling: 20 **Average ROP:** 4.8m / hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill directional hole.

Remarks: Shale. Calcareous shale. No gas shows. Hole changed attitude. Wants to go south west. Rotated out a couple singles to drop angle but it built instead. Will have to slide more to counteract. Hole in good shape, cleaning well. Should be drilling all day.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Geological Morning Report**Feb 01, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

*Today's Drilled
Report - Late*

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 15
Target Location: O-15

Date: Feb 1, 1999
Time: 06:00 hrs
Hours Drilling: 10.25

Depth: 2241m
Progress: 44m
Average ROP: 4.3m/hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill directional hole, Trip for BHA, Drill directional hole.

Remarks: Shale. Calcareous shale. No gas shows. Hole going in the right direction. Closure is 15.5m. No hole problems. These shales are extremely dehydrated. They stand up well in the invert but when you try to clean up the samples with water they turn into mush. Any water in this well would be a disaster.

Geological Morning Report**Jan 31, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 14
Target Location: O-15

Date: Jan 31, 1999
Time: 06:00 hrs
Hours Drilling: 20

Depth: 2197m
Progress: 107m
Average ROP: 5.3m / hr

Formation: Fort Simpson

Operational Status: Drilling

Operational Summary: Drill directional hole.

Remarks: Shale. Calcareous shale. Occasional Limestones. No gas shows. My best guess is Tetcho 2007m (2005.3 TVD) Kakisa 2139m (2137.0 TVD) Fort Simpson 2156.5m (2154.4 TVD). The latter two tops are fairly subtle so I could be out to lunch. Hole going in right direction. Should be fairly close to center by the time we get to 2500m. Will be tripping for BHA this morning.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Geological Morning Report**Jan 30, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-770-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15
Grid Area: 60° 30' 123° 00'
Target Location: O-15
Spud Date: Re-entry
Days from Entry: 13

Date: Jan 30, 1999
Time: 06:00 hrs
Hours Drilling: 15.5

Depth: 2090m
Progress: 92m
Average ROP: 5.9m / hr

Formation: Tetcho

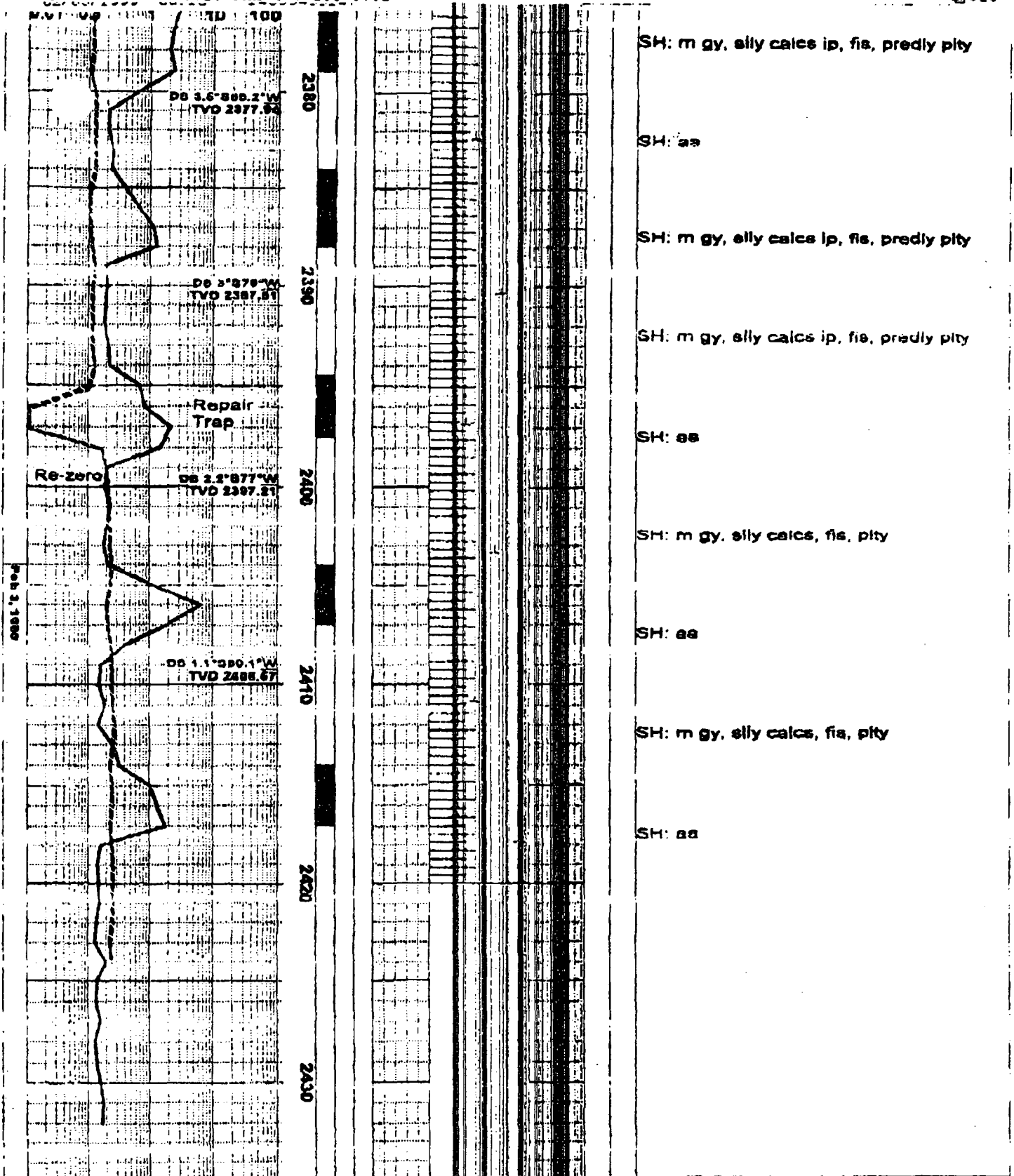
Operational Status: Drilling

Operational Summary: Trip for BHA. Drill directional hole.

Remarks: Shale. Calcareous shale. Limestone stringers. No shows.
Lithology change at 2007m probably Tetcho top. Silty
Limestone at top, calcareous Shale with a few argillaceous
Limestone stringers thereafter. Hole is finally moving west
Will probably have to trip for bit / motor tonight.

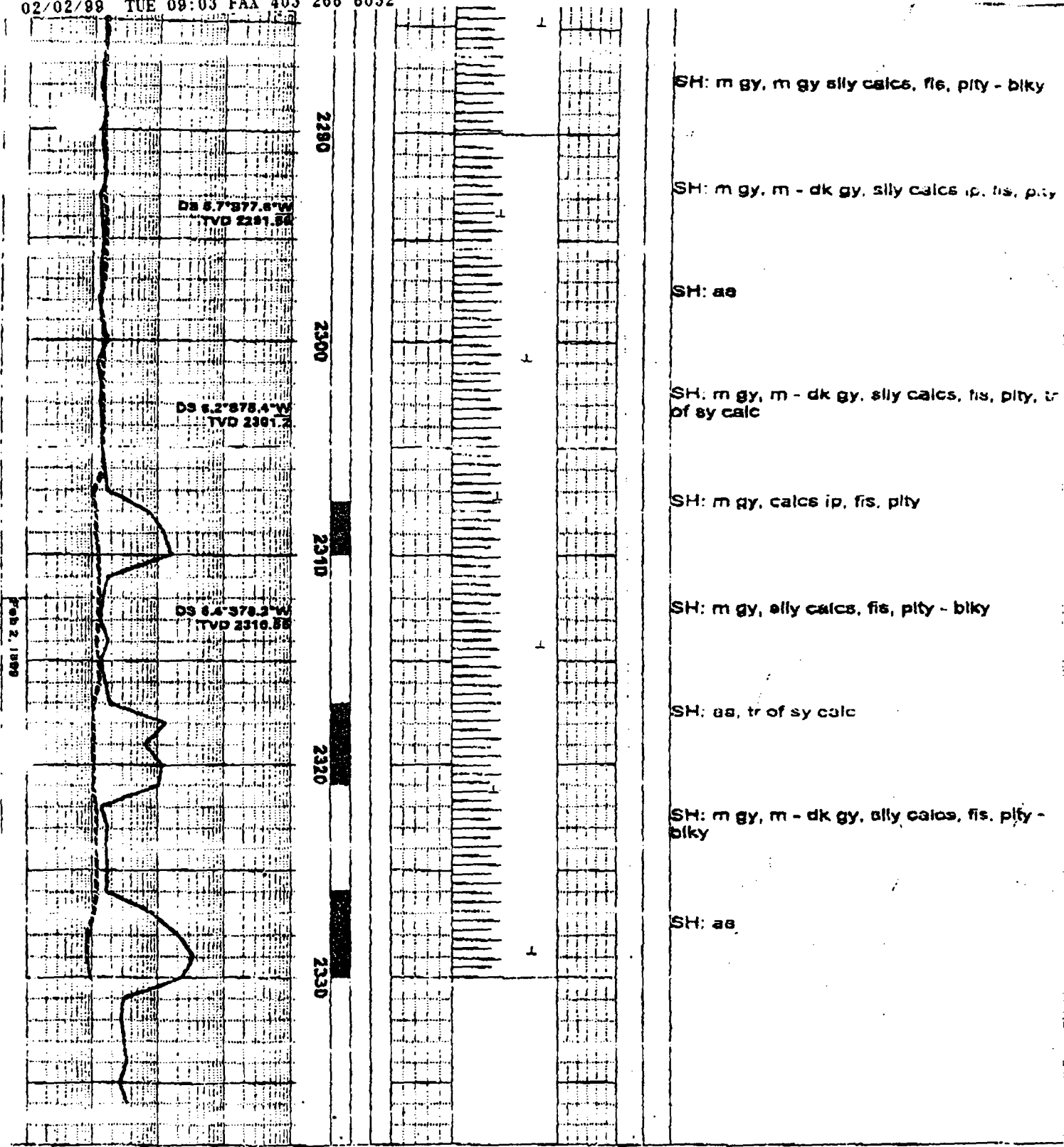
Paramount Resources Ltd.
3000156030123000

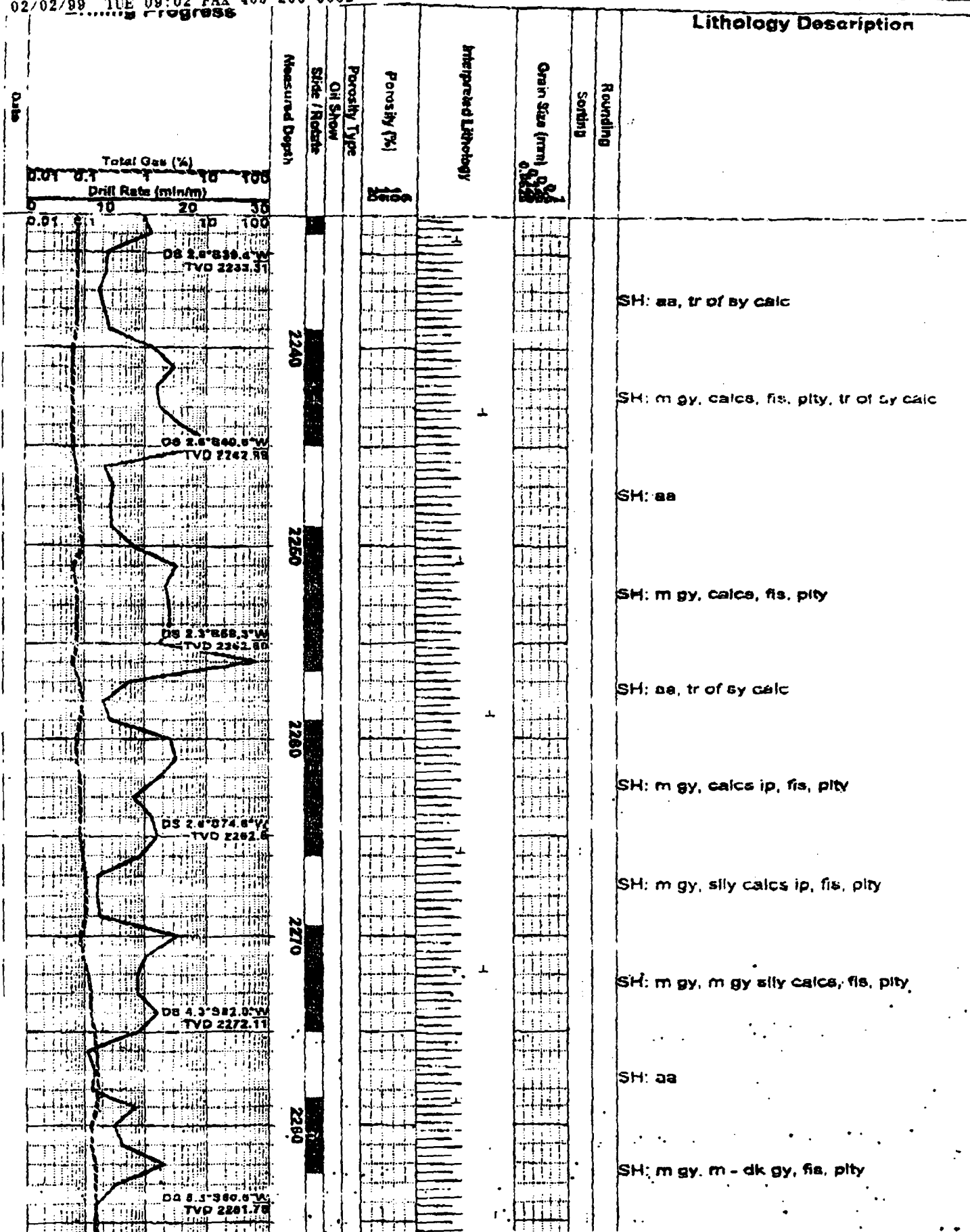
Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

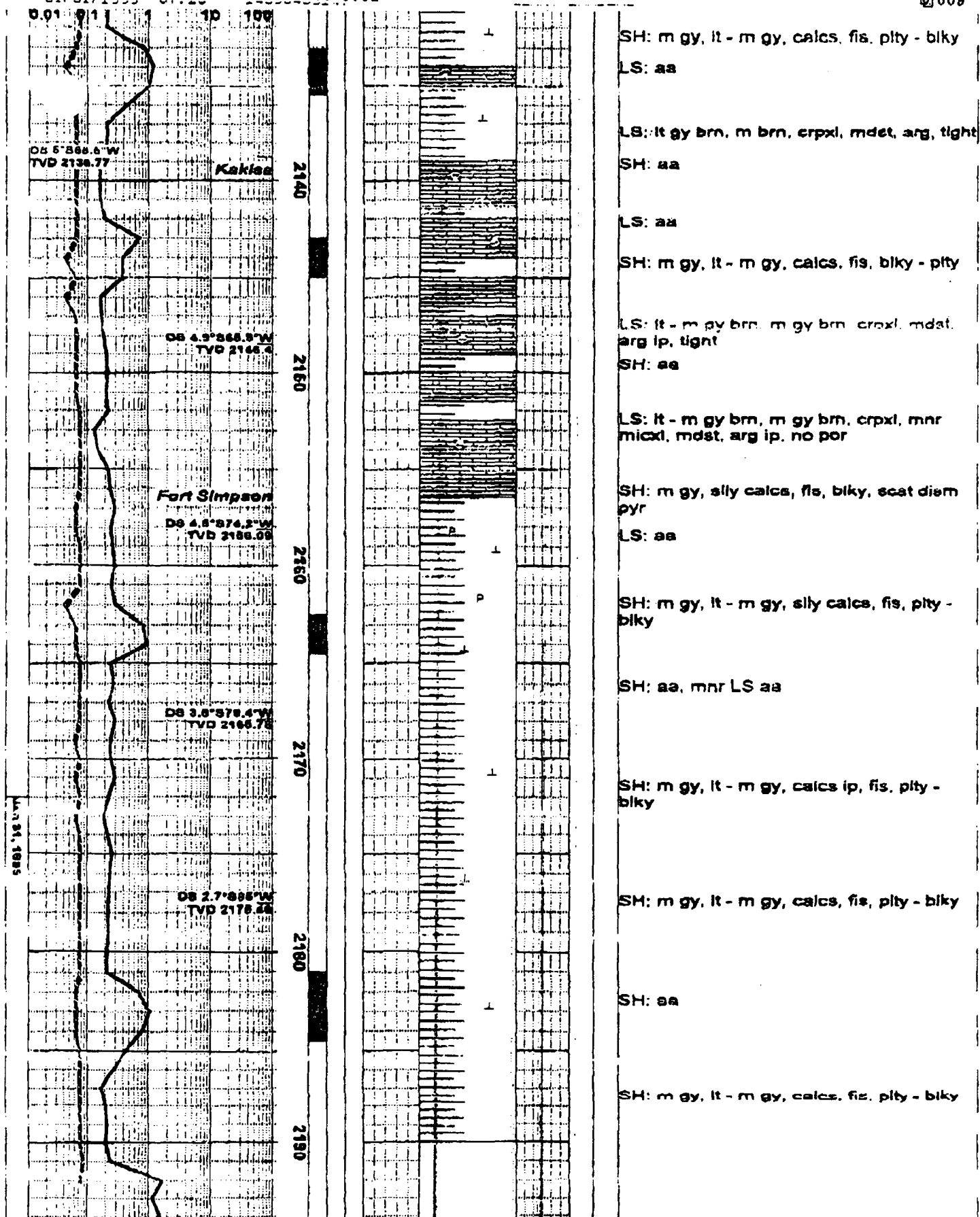


Lithology Description



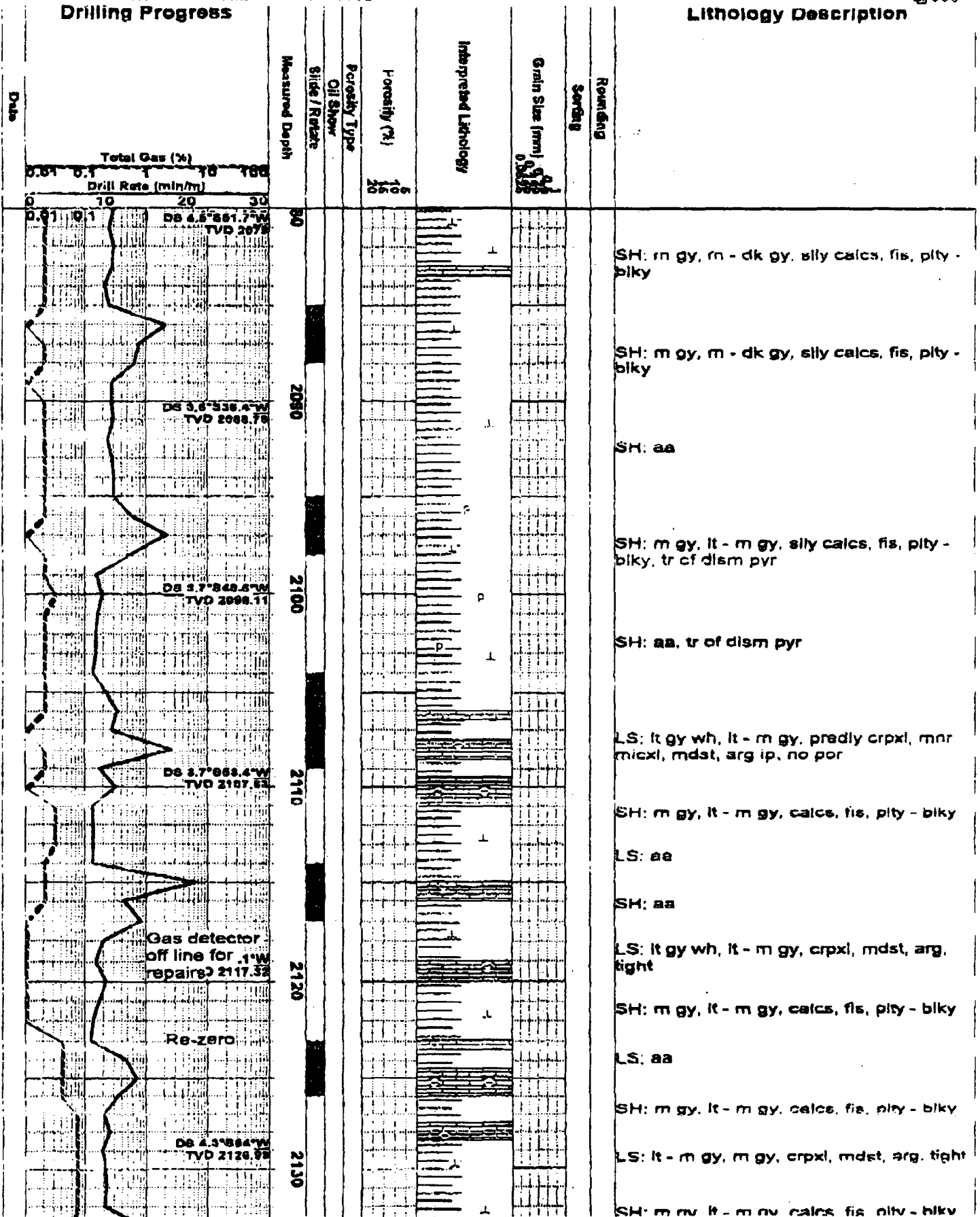


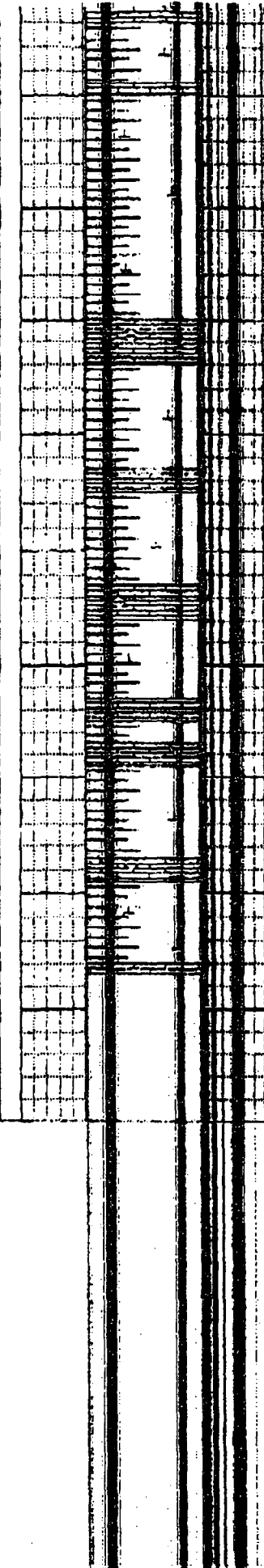
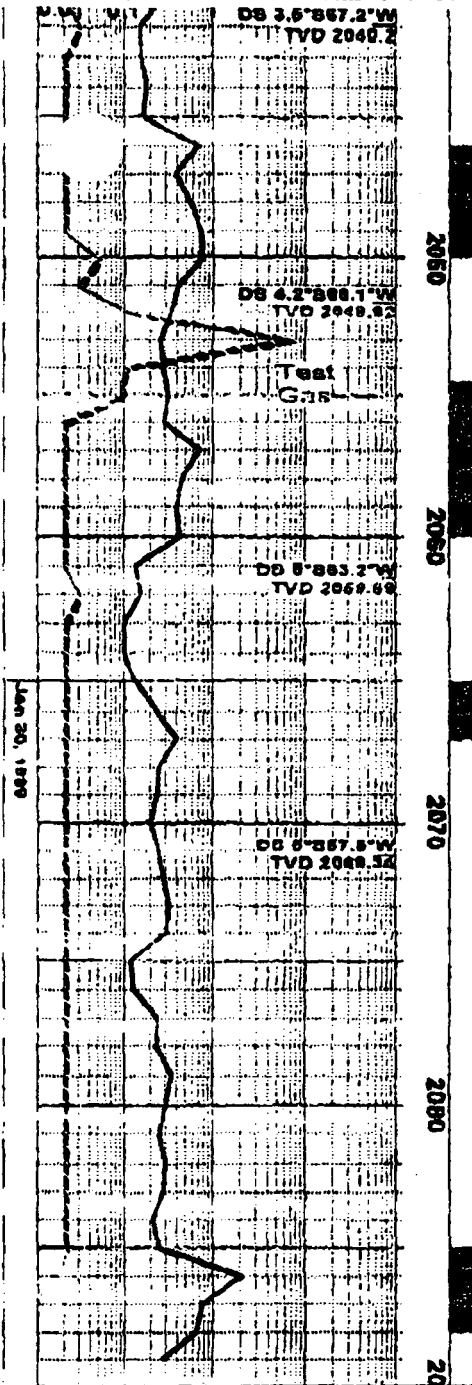




Drilling Progress

Lithology Description





SH: aa mnr LS lt - m gy. arg. crpxl. mdst
tight

SH: aa

SH: m gy. m - dk gy. silty calcs, ric, blkly -
pty

SH: m gy. m - dk gy. calcs, fis. pty - blkly

SH: aa
LS: m gy, lt - m gy brn, crpxl, mdst, v arg,
no vis por

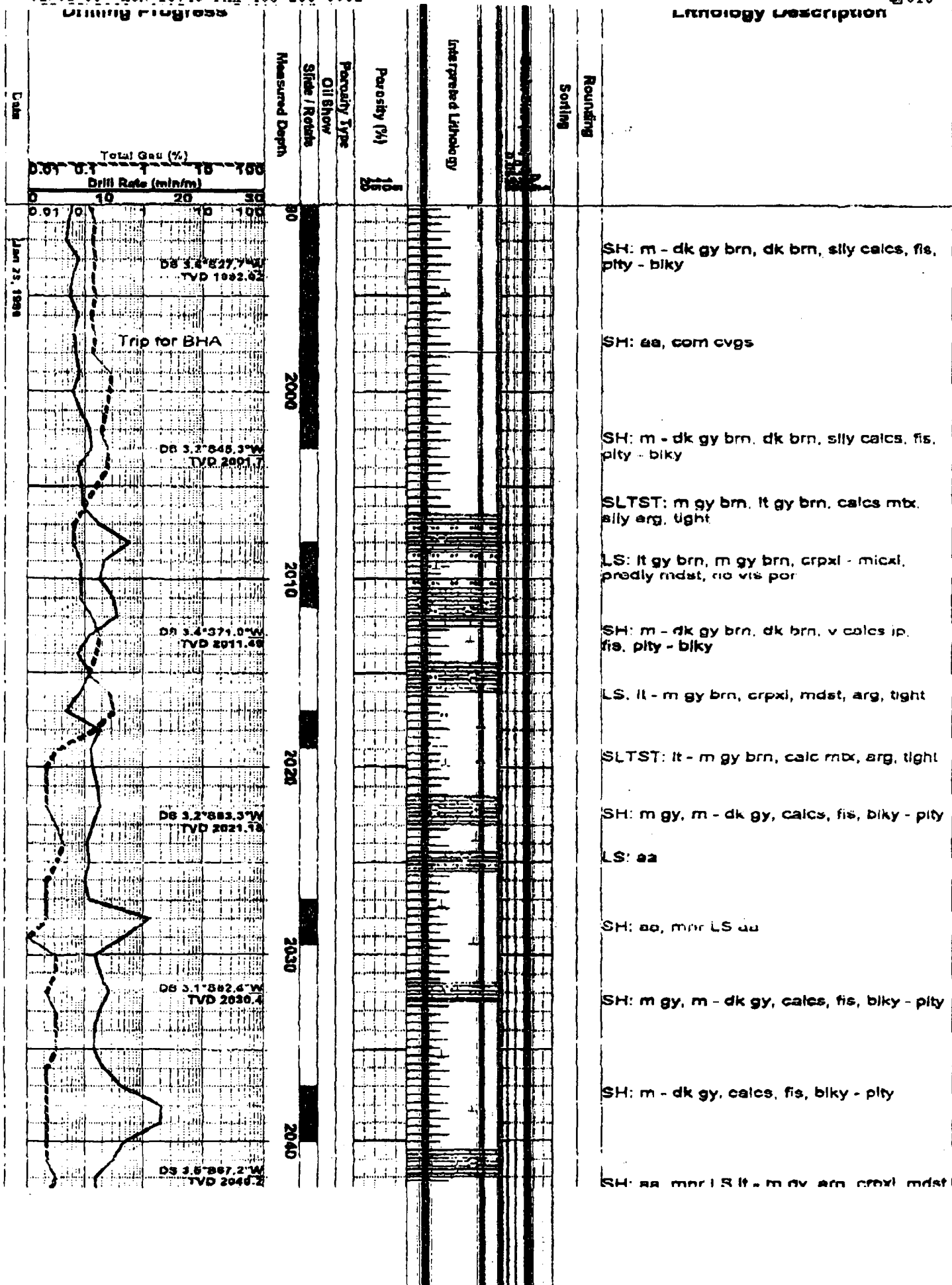
SH: aa
LS: aa

SH: m gy. m - dk gy. calcs, fis. pty - blkly
LS: lt - m gy. v arg. crpxl. mdst. tight

SH: m gy. m - dk gy. calcs, fis. pty - blkly

Drilling Progress

Lithology Description



February 3, 1999
4:35 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 8177p

Vertical Section Calculated on: 58.4000
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
78	2324.75	5.50	254.20	2322.31	2.83	7.97	8.27	2.51	-1935.61
79	2332.57	5.00	251.00	2330.10	2.61	7.29	7.58	2.22	-1943.40
80	2341.88	5.30	250.00	2339.37	2.33	6.50	6.76	1.01	-1952.67
81	2351.56	5.60	249.90	2349.00	2.02	5.64	5.86	0.93	-1962.30
82	2361.23	5.40	258.40	2358.63	1.76	4.75	4.97	2.60	-1971.83
83	2370.91	4.50	262.40	2368.27	1.62	3.93	4.20	2.99	-1981.57
84	2380.60	3.50	260.20	2377.94	1.52	3.26	3.57	3.13	-1991.24
85	2390.19	3.00	256.00	2387.51	1.41	2.73	3.06	1.73	-2000.81
86	2399.90	2.20	257.00	2397.21	1.31	2.30	2.64	2.48	-2010.51
87	2409.26	1.10	260.10	2406.57	1.25	2.04	2.39	3.54	-2019.87

Closure is 2.3888 Meters on an azimuth of 58.4039

February 2, 1999
3:22 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 72.2300
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
58	2128.95	4.30	244.00	2126.99	7.27	19.62	20.90	1.25	-1740.29
59	2138.76	5.00	245.50	2136.77	6.93	18.90	20.11	2.17	-1750.07
60	2148.43	4.90	245.90	2146.40	6.59	18.14	19.28	0.33	-1759.70
61	2158.15	4.50	254.20	2156.09	6.31	17.39	18.49	2.43	-1769.39
62	2167.86	3.50	259.40	2165.78	6.16	16.73	17.81	3.28	-1779.08
63	2177.56	2.70	265.00	2175.46	6.08	16.21	17.30	2.64	-1788.76
64	2187.25	2.10	249.60	2185.14	6.00	15.82	16.90	2.71	-1798.44
65	2196.57	1.80	239.60	2194.46	5.87	15.53	16.58	1.46	-1807.76
66	2206.30	2.10	228.70	2204.18	5.67	15.27	16.27	1.39	-1817.46
67	2216.00	2.40	220.20	2213.88	5.40	15.00	15.93	1.48	-1827.18
68	2225.70	2.50	221.20	2223.57	5.09	14.73	15.58	0.34	-1836.87
69	2235.45	2.60	219.40	2233.31	4.76	14.45	15.21	0.39	-1846.61
70	2245.14	2.60	220.60	2242.99	4.42	14.17	14.84	0.17	-1856.29
71	2254.84	2.30	238.30	2252.68	4.15	13.86	14.46	2.50	-1865.38
72	2264.67	2.80	254.80	2262.50	3.99	13.46	14.03	2.70	-1875.80
73	2274.30	4.30	282.90	2272.11	3.88	12.87	13.44	4.92	-1885.41
74	2284.01	5.30	260.80	2281.79	3.76	12.07	12.64	3.14	-1895.09
75	2293.83	5.70	257.60	2291.56	3.58	11.14	11.71	1.54	-1904.66
76	2303.52	6.20	255.40	2301.20	3.35	10.17	10.71	1.70	-1914.50
77	2312.93	6.40	258.20	2310.55	3.11	9.16	9.68	1.17	-1923.85

Closure is 9.6777 Meters on an azimuth of 71.2284

January 31, 1999
6:47 am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 69.2300

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRK\9177.8R3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
45	2003.36	3.20	225.30	2001.70	11.38	28.87	29.16	3.44	-1615.00
46	2013.17	3.40	251.90	2011.49	11.10	26.40	28.62	4.68	-1624.79
47	2022.87	3.20	253.30	2021.18	10.98	25.85	28.07	2.12	-1634.48
48	2032.11	3.10	262.40	2030.40	10.92	25.35	27.57	0.36	-1643.70
49	2041.92	3.50	247.20	2040.20	10.76	24.81	27.02	2.93	-1653.50
50	2051.67	4.20	248.10	2049.92	10.52	24.21	26.36	2.16	-1663.22
51	2061.47	5.00	243.20	2059.69	10.19	23.49	25.58	2.73	-1672.99
52	2071.15	5.00	237.50	2069.34	9.77	22.76	24.75	1.54	-1682.64
53	2080.85	4.50	231.70	2078.00	9.31	22.10	23.07	2.14	-1692.30
54	2090.66	3.80	216.40	2088.79	8.81	21.61	23.33	3.99	-1702.09
55	2100.00	3.70	220.50	2098.11	8.33	21.23	22.80	0.92	-1711.41
56	2109.54	3.70	233.40	2107.63	7.91	20.78	22.24	2.61	-1720.93
57	2119.25	3.90	243.10	2117.32	7.58	20.24	21.61	2.08	-1730.62
58	2128.95	4.30	244.00	2126.99	7.27	19.62	20.92	1.25	-1740.29
59	2138.76	5.00	245.50	2136.77	6.93	18.90	20.13	2.17	-1750.07
60	2148.43	4.90	245.90	2146.40	6.59	18.14	19.29	0.33	-1759.70
61	2158.15	4.50	254.20	2156.09	6.31	17.39	18.50	2.43	-1769.39
62	2167.86	3.50	259.40	2165.78	6.16	16.73	17.83	3.28	-1779.08
63	2177.56	2.70	265.00	2175.46	6.08	16.21	17.32	2.64	-1788.76
64	2187.25	2.10	249.60	2185.14	6.00	15.82	16.92	2.71	-1798.44

Closure is 16.9193 Meters on an azimuth of 69.2326

January 30, 1999
5:59 am

Path Tracker 4
Survey Calculation Report
UNITED GEOCONTRILLING SERVICES

Page 2 of 2

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 66.7600
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
34	1897.19	3.10	194.90	1895.64	15.60	28.10	32.01	0.91	-1508.94
35	1907.01	3.60	202.40	1905.45	15.70	27.92	31.63	2.03	-1518.75
36	1916.49	3.90	199.10	1914.91	14.55	27.70	31.20	1.17	-1528.21
37	1926.14	2.90	192.40	1924.54	14.60	27.54	30.83	3.34	-1537.84
38	1935.95	1.80	176.90	1934.34	13.60	27.49	30.63	3.86	-1547.64
39	1945.60	1.00	162.10	1943.99	13.20	27.53	30.57	2.71	-1557.29
40	1955.12	0.80	157.20	1953.51	13.20	27.58	30.57	0.67	-1566.81
41	1964.83	1.30	186.00	1963.22	13.60	27.59	30.51	2.20	-1576.52
42	1974.51	2.20	196.30	1972.89	12.70	27.53	30.34	2.94	-1586.19
43	1984.32	3.10	195.60	1982.69	12.30	27.41	30.05	2.75	-1595.99
44	1993.66	3.60	207.70	1992.02	11.80	27.20	29.67	2.77	-1605.32
45	2003.36	3.20	225.30	2001.70	11.30	26.87	29.18	3.44	-1615.00
46	2013.17	3.40	251.80	2011.49	11.10	26.40	28.63	4.68	-1624.79
47	2022.87	3.20	283.30	2021.18	10.50	25.85	28.09	2.12	-1634.48
48	2032.11	3.10	262.40	2030.40	10.60	25.35	27.60	0.36	-1643.70
49	2041.92	3.50	247.20	2040.20	10.70	24.81	27.05	2.93	-1653.50
50	2051.67	4.20	248.10	2049.92	10.50	24.21	26.39	2.16	-1663.22
51	2061.47	5.00	243.20	2059.69	10.10	23.49	25.61	2.73	-1672.99
52	2071.15	5.00	237.50	2069.34	9.70	22.76	24.77	1.54	-1682.64

Closure is 24.7692 Meters on an azimuth of 86.7620

Jan. 30, 1999
5:59 am

Path Tracker 4.0
Survey Calculation
UNITED GEOCOM DRILLING SERVICES

Page 1 of 2

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 66.7600
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRK\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
0	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	-113.30
1	550.00	0.32	78.80	550.00	0.03	0.14	0.14	0.19	-163.30
2	660.32	0.35	91.07	660.32	0.03	0.76	0.74	0.02	-273.62
3	774.00	0.46	104.70	774.00	-0.04	1.56	1.42	0.04	-387.30
4	886.00	0.81	55.62	886.99	0.09	2.65	2.55	0.17	-499.29
5	1001.00	2.77	68.29	1000.93	1.09	5.91	6.13	0.52	-614.23
6	1113.00	4.10	61.14	1112.72	4.01	11.93	12.82	0.37	-726.02
7	1202.36	4.20	59.20	1201.85	7.03	17.54	19.24	0.06	-815.15
8	1337.65	2.60	316.80	1336.09	12.01	19.69	23.11	1.20	-950.29
9	1472.58	1.90	317.10	1471.81	16.03	18.07	21.31	0.16	-1085.11
10	1616.57	2.90	23.70	1615.70	21.03	15.91	23.17	0.58	-1229.00
11	1674.90	3.50	67.00	1673.95	23.01	18.15	26.03	1.25	-1287.25
12	1684.59	3.90	72.60	1683.62	23.02	18.73	25.05	1.67	-1286.02
13	1694.12	4.30	77.20	1693.12	24.00	19.39	27.33	1.63	-1306.42
14	1703.85	4.60	83.70	1702.82	24.02	20.13	28.06	1.81	-1316.12
15	1713.57	4.80	88.10	1712.51	24.03	20.93	28.81	1.27	-1325.81
16	1723.24	4.90	91.70	1722.15	24.03	21.74	29.56	0.99	-1335.45
17	1732.89	4.60	100.10	1731.76	24.00	22.54	30.26	2.35	-1345.06
18	1742.71	4.50	109.80	1741.55	24.00	23.29	30.87	2.37	-1354.85
19	1752.23	4.60	116.00	1751.04	23.01	23.98	31.39	1.58	-1364.34
20	1761.91	4.40	121.20	1760.69	23.04	24.66	31.66	1.41	-1373.99
21	1771.60	4.20	120.30	1770.35	22.07	25.27	32.29	0.65	-1383.65
22	1781.42	3.90	118.20	1780.15	22.03	25.88	32.71	1.02	-1393.45
23	1791.13	3.90	118.30	1789.84	22.02	26.46	33.12	0.02	-1403.14
24	1800.95	3.70	132.40	1799.64	21.05	26.99	33.46	2.91	-1412.94
25	1810.58	4.40	150.80	1809.24	21.02	27.40	33.62	4.57	-1422.54
26	1820.39	4.90	161.40	1819.02	20.09	27.71	33.63	3.03	-1432.32
27	1830.21	4.80	168.70	1828.81	19.09	27.93	33.51	1.81	-1442.11
28	1839.94	4.40	165.40	1838.50	19.03	28.10	33.37	1.48	-1451.80
29	1849.75	4.10	169.40	1848.29	18.02	28.26	33.24	1.29	-1461.59
30	1859.06	3.80	174.60	1857.58	17.03	28.35	33.07	1.50	-1470.88
31	1868.43	3.50	183.80	1866.93	17.09	28.36	32.84	2.12	-1480.23
32	1878.10	3.10	186.60	1876.58	16.04	28.31	32.58	1.33	-1489.88
33	1887.10	2.80	193.70	1886.57	16.03	28.23	32.33	1.57	-1498.87

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-28-24:00
Yr - Mon - Day - Time

WELL NAME Paramount #1 Aheadhead LOCATION 0-15-60-30-123-02
 Day 12 Depth 1991 Metres last 24 hr 143 Rotating hrs 19 3/4
 Activity at report time Stop back in Hole after drilling rate Angle change

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 980 Vls 52 WL 20 Gels 15/2.5 Solids 9.8 % PV 10.0 YP 1.44 PH
 Oil 88 % Sand 1.005 % Cake 2 PPMCL 240000 PPMCa 240000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	IN TO D TODAY	CUM. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
4	216	HC-GT18M	X61CV	1215	30/25		143	304	19 3/4	45 1/4	7.24			Running

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			IN. VEL. m/min	DC	JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER					
4	11.9	11.9	11.9	203	105	140	98	46	78		9100

DEVIATION SURVEYS

• at _____ m	• at _____ m
• at _____ m	• at _____ m
• at _____ m	• at _____ m
• at _____ m	• at _____ m

MUD & CHEMICALS ADDED

_____	_____
_____	_____
_____	_____

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
1- B.T.		216	1.24	
1- Drilling Motor		165	6.18	
1- Float Sub		160	0.48	
1- Mud Motor		168	9.44	
1- Pulsar Sub		160	1.14	
1- Mud Motor		158	9.40	
1- X-0 Sub		170	0.44	
6- Drill Collars		170	57.08	
1- Drilling Jar		170	3.86	
9- Drill Collars		170	178.38	
1- X-0 Sub		164	0.58	
6- Heavy Water Pipe		114	59.98	
182- Drill Pipe		114	175.62	

TIME ANALYSIS

OPERATION		TODAY	CUM.
1. Drilling		19 3/4	
2. Trip			
3. Rig Service		1/2	
4. Deviation Surveys			
5. Pump & Cond. Hole			
6. Mix & Cond. Mud			
7. Circulation			
8. Rig Repair			
9. Run Casing & Cement			
10. Fishing			
11. Logging			
12. Coring			
13. Formation Testing			
14. Waiting on:			
15. Nipple Up & Test BOPS			
16. Drilling Out			
17. Lost Circ.			
18. Laying Down DP & BOP's			
19. Plug & Abandon			
20. Rig up - Tear out			
21. Directional Surveys		3 3/4	
TOTAL		24	

COSTS

DAILY 43500
 CUMMULATIVE 723500

SUPERVISOR

Wilbert Callison

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-28-24:00
Yr - Mon - Day - TimeWELL NAME Paramount at Arrowhead LOCATION E 15-60-30-128-02

OPERATIONS DETAIL:

Directional Drill 216mm Hole - Drilling Hole Angle and turning Hole direction toward 240° as per Program - Going Good until 19:00m - Start to drop Hole Angle and losing direction - At 19:50m - Able to get Hole direction in Change and Bring Hole Angle backup - Since Midnite have drilled to 1998m - Care to Clean Hole - Trip out - Change Mud Motor Angle from 1.15° to 1.83° - Run back in with Same mud motor and Bit - Both were in Good Shape - Slip and Cut Line at Report time.

WANT LIST:

WEATHER: Clear - Wind 25km/h - Cold - 25°ROAD: Good on Hi Way - Rough to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls



Daily Activity Report

Day 4 - 1999/01/28

FILE #: 9177P

COMPANY: Paramount Resources Ltd.

SURFACE LOCATION: Lat 60 24' Long 123 02'

WELL NAME: Paramount Berkley Arrowhead 0-15

SURVEY SERVICE CO.: United GeoCom

CO. REP: Wilbert Callhee

RIG & NO: Precision 507

JOB TYPE: Directional

SURVEY TYPE: Mud Pulse MWD

DAY #: 4 DATE: 1999/01/28

GROUND ELEV: 380.5

START DEPTH: 1848.0

PREVIOUS COST: \$21157.50

KB ELEV: 380.7

END DEPTH: 1891.0

DAILY COST: \$8380.00

AVG. ROP: 7.24

PROGRESS(m): 143.0

TOTAL COST: \$29547.54

TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA	TIME IN/OUT	DAILY ACTIVITY	DEPTH	BHA
00:00 TO 03:45	Directional Drill	1873	1	13:45 TO 14:00	Circ & Accumulate Surveys	1841	1
03:45 TO 04:00	Rig Service	1873	1	14:00 TO 14:30	Directional Drill	1849	1
04:00 TO 08:45	Directional Drill	1806	1	14:30 TO 14:45	Rig Service	1849	1
08:45 TO 08:00	Circ & Accumulate Surveys	1890	1	14:45 TO 14:55	Directional Drill	1891	1
08:00 TO 14:45	Directional Drill	1941	1	14:55 TO 14:00	Circ & Accumulate Surveys	1891	1

TIME SUMMARY (hrs):

MOTOR DRILL: 19.75 ROTARY DRILL: 0.00 TRIP: 0.00

TIME DRILL: 0.00 OTHER: 0.50

REAM: 0.00

CIRC: 3.75

MOTOR HRS: 23.50 DRILL HRS: 19.75 TOTAL HRS: 24.00

DRILLING PARAMETERS:

TORQUE: 0

WOB SLIDING (HI): 15

WOB SLIDING (LO): 13

RPM (ROTARY): 30

RPM (MOTOR): 75

WOB ROTATE (HI): 14

WOB ROTATE (LO): 14

DRAG UP: 7

DRAG DN: 6

BHA / MOTOR INFORMATION:

BHA: 1

MANFCT: Black Max

SETTING: 1.14

HOLE SIZE: 200

SERIAL #: 650-599

SIZE: 6 1/2" (165mm)

SECTION TYPE: Main Hole

MODEL: Comm III

MTR HRS THIS DAY: 23.5

LOBE CFG.: 7/8

MTR HRS TO DATE: 54

PUMP PARAMETERS

PRESSURE ON ATM(KPa): 9000

PRESSURE OFF ATM(KPa): 780

TOTAL FLOW RATE(m3): 1.10

PUMP 1: TYPE: A-800-P SPM: 105.00

LINER: 152.00 STROKE VOL.: 0.0001

PUMP 2: TYPE: SPM: 0.00

LINER: 0.00 STROKE VOL.: 0.0000

PUMP 3: TYPE: SPM: 0.00

LINER: 0.00 STROKE VOL.: 0.0000

MUD RECORD

MUD TYPE: UBD Diesel

VISC: 52

WTR LOSS: 0

PP: 10

YP: 1.44

pH: 8

DENSITY(kg/m3): 980

SAND: 0.005

SOLIDS: 0.800

OIL: 88.000

TEMP: 42

LIQUID TYPE: Cutter D

LIQUID RATE: 1.1

GAS TYPE:

GAS RATE: 0

COMMENTS:

Having trouble getting well to turn to an azi of 250

DIR. SUPERVISOR: John Webb

DIR. SUPERVISOR:

CUSTOMER SIGNATURE:

Printed: 1999/01/29 5:38:28 AM

File #9177P Daily Activity Report

Page 1

July 28, 1999
11:32 pm

PathTracker 4.0
Survey Calculation Program
UNITED GEOGOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 45.8400
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
33	1887.10	2.80	193.70	1885.57	16.18	28.23	31.53	1.57	-1498.87
34	1897.19	3.10	194.90	1895.64	15.68	28.10	31.08	0.91	-1508.34
35	1907.01	3.60	202.40	1905.45	15.14	27.82	30.57	2.03	-1518.75
36	1916.49	3.90	199.10	1914.91	14.56	27.70	30.01	1.17	-1528.21
37	1926.14	2.80	192.40	1924.54	14.01	27.54	29.52	3.34	-1537.84
38	1935.95	1.80	176.90	1934.34	13.81	27.40	29.21	3.00	-1547.04
39	1945.60	1.00	162.10	1943.99	13.38	27.53	29.07	2.71	-1557.29
40	1955.12	0.80	157.20	1953.51	13.24	27.58	29.01	0.67	-1566.81
41	1964.83	1.30	186.00	1963.22	13.07	27.59	28.90	2.20	-1576.52
42	1974.51	2.20	196.30	1972.89	12.78	27.53	28.65	2.94	-1586.19

Closure is 30.3530 Meters on an azimuth of 65.0955

May 28, 1999
7:44 pm

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Cellihoo
File #: 9177p

Vertical Section Calculated on: 64.0800
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Subsea Meters
30	1859.05	3.80	174.60	1857.58	17.79	28.35	33.28	1.50	-1470.88
31	1868.43	3.50	183.90	1866.93	17.19	28.36	33.02	2.12	-1480.23
32	1878.10	3.10	188.60	1876.58	16.64	28.31	32.74	1.33	-1489.86
33	1887.10	2.80	193.70	1885.57	16.18	28.23	32.47	1.57	-1498.87
34	1897.19	3.10	194.90	1895.64	15.68	28.10	32.13	0.91	-1508.94
35	1907.01	3.60	202.40	1905.45	15.14	27.92	31.73	2.03	-1518.75
36	1916.49	3.90	199.10	1914.91	14.56	27.70	31.28	1.17	-1528.21
37	1926.14	2.90	192.40	1924.54	14.01	27.54	30.89	3.34	-1537.84
38	1935.95	1.80	178.90	1934.34	13.81	27.49	30.68	3.86	-1547.84
39	1945.60	1.00	162.10	1943.99	13.38	27.53	30.61	2.71	-1557.29

Closure is 30.6083 Meters on an azimuth of 64.0750

Geological Morning Report**Jan 29, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-601-790-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15
Grid Area: 60° 30' 123° 00'
Target Location: O-15
Spud Date: Re-entry
Days from Entry: 12

Date: Jan 29, 1999
Time: 06:00 hrs
Hours Drilling: 13

Depth: 1998m
Progress: 115m
Average ROP: 8.8m / hr

Formation: Kotcho / Tetcho

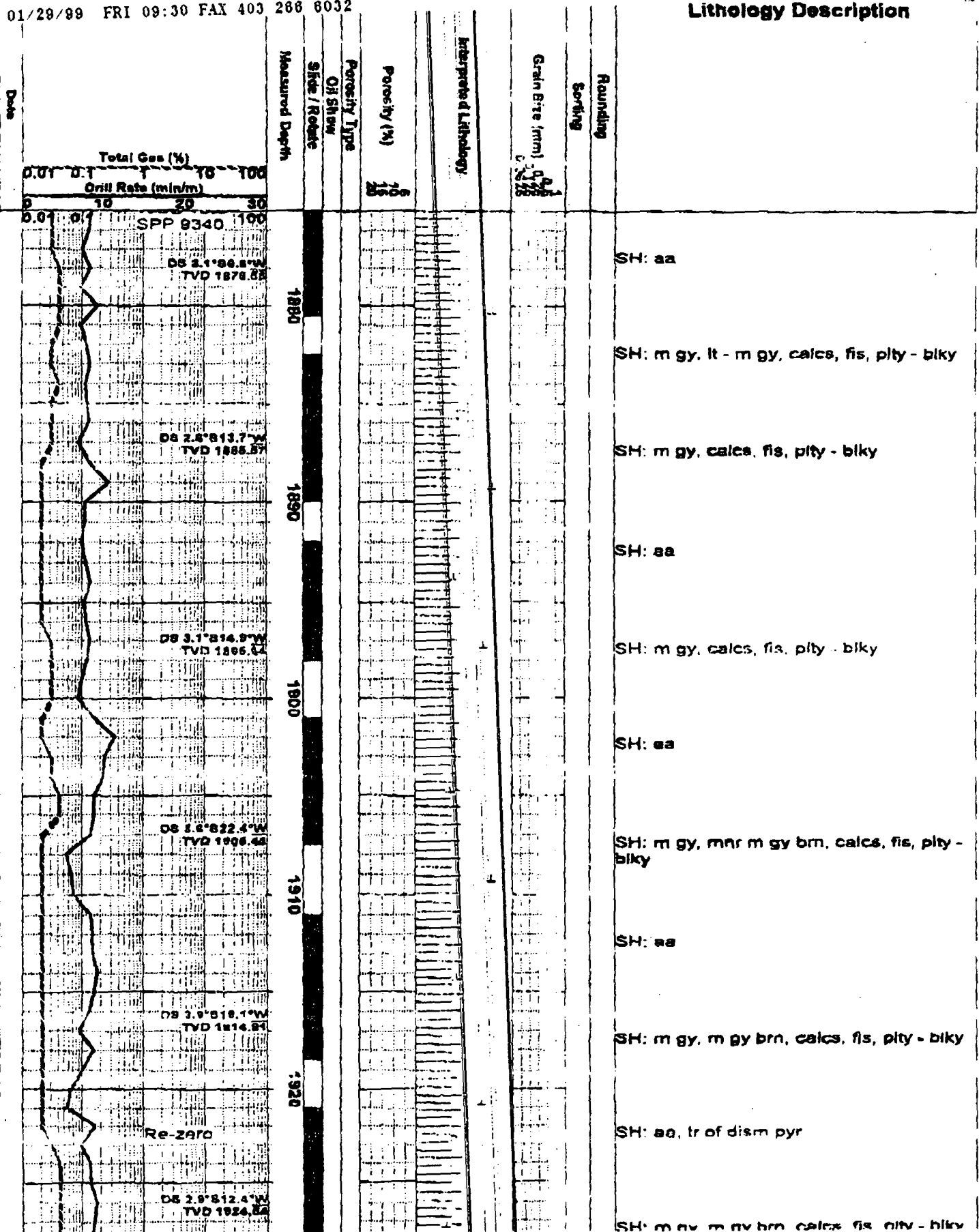
Operational Status: Tripping

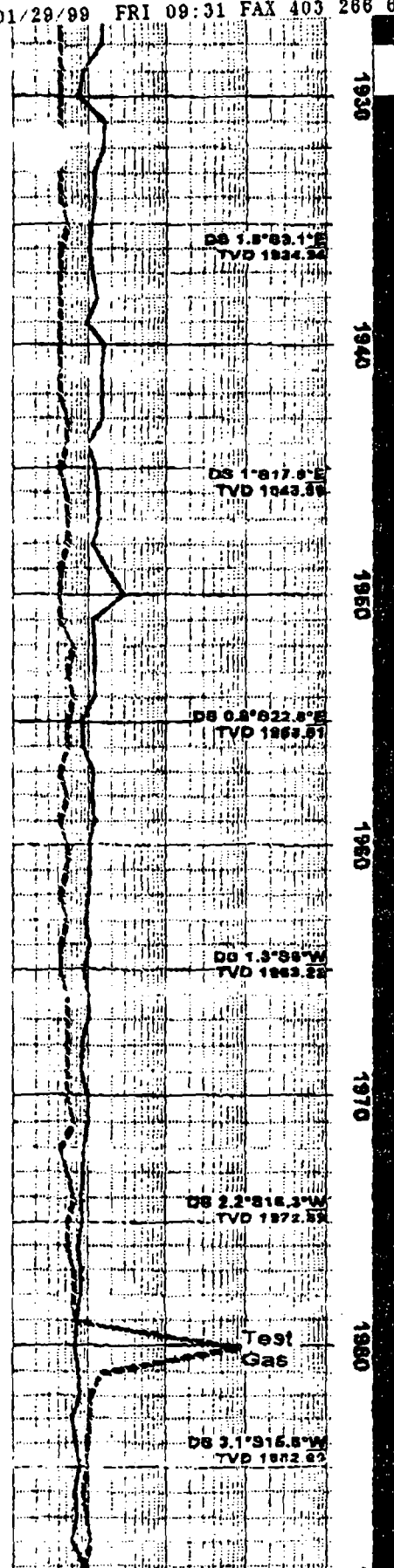
Operational Summary: Drill directional hole Trip for BHA

Remarks: Shale. Calcareous shale. No shows. No gas. Tripping for bit, motor, motor angle. We're not getting where we want to be so we have to set up the angle at the bit. Haven't seen any definitive change in lithology, maybe a little less calcareous. Exshaw 1567.5m (1566.66 TVD)
Kotcho 1578m (1577.5 TVD) Tetcho ?

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'





SH: m gy, m gy brn, calcs, fis, plty - biky,
tr of dism pyr

SH: m gy, m gy brn, calcs, fis, plty - biky

SH: aa

SH: m gy, m gy brn, calcs, fis, plty - biky

SH: m gy brn, m gy, calcs, fis, plty - biky

SH: aa

SH: m gy brn, m gy, calcs, fis, plty - biky

SH: aa

SH: m gy brn, m gy, silty calcs, fis, plty -
biky

SH: aa

SH: m gy brn, m gy, silty calcs, fis, plty -
biky

SH: m gy brn, silty calcs, fis, plty - biky

SH: aa, tr aks

Jan 29, 1999

1990

20

Trip for BHA

SH: m - dk gy brn, dk brn, silty calcs, fls.
pity - blk

ary 29, 1999
am

PathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 80 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 45.8400
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Doglog /30m	Subsea Meters
24	1800.95	3.70	132.40	1799.64	21.95	26.99	34.65	2.91	-1412.94
25	1810.58	4.40	150.80	1809.24	21.42	27.40	34.57	4.57	-1422.54
26	1820.39	4.90	161.40	1819.02	20.69	27.71	34.30	3.03	-1432.32
27	1830.21	4.80	168.70	1828.81	19.88	27.83	33.89	1.91	-1442.11
28	1839.94	4.40	165.40	1838.50	19.13	28.10	33.49	1.48	-1451.80
29	1849.75	4.10	169.40	1848.28	18.42	28.26	33.11	1.29	-1461.59
30	1859.06	3.80	174.60	1857.55	17.73	28.35	32.73	1.50	-1470.88
31	1868.43	3.50	183.90	1866.93	17.19	28.36	32.32	2.12	-1480.23
32	1878.10	3.10	186.60	1876.58	16.64	28.31	31.90	1.33	-1489.88
33	1887.10	2.80	193.70	1885.57	16.13	28.23	31.53	1.57	-1498.87
34	1897.19	3.10	194.90	1895.64	15.63	28.10	31.08	0.91	-1508.94
35	1907.01	3.60	202.40	1905.45	15.14	27.92	30.57	2.03	-1518.75
36	1916.49	3.90	199.10	1914.91	14.56	27.70	30.01	1.17	-1528.21
37	1926.14	2.90	192.40	1924.54	14.01	27.54	29.52	3.34	-1537.84
38	1935.95	1.80	176.90	1934.34	13.51	27.49	29.21	3.86	-1547.64
39	1945.60	1.00	162.10	1943.99	13.36	27.53	28.07	2.71	-1557.29
40	1955.12	0.80	157.20	1953.51	13.24	27.58	29.01	0.87	-1566.81
41	1964.63	1.00	180.00	1963.22	13.07	27.59	28.93	2.20	-1575.52
42	1974.51	2.20	196.30	1972.89	12.78	27.53	28.65	2.94	-1585.19
43	1984.32	3.10	195.60	1982.69	12.35	27.41	28.26	2.75	-1595.99

Closure is 30.0586 Meters on an azimuth of 65.7500

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-27-24:00
Yr - Mon - Day - TimeWELL NAME Paramount at ArrowheadLOCATION R-15-60-50-123-02Day 11Depth 1848Metres last 24 hr 132Rotating hrs 20

Activity at report time

Directional Drill 2 1/4" Hole @ 1890 m

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 980Vis 52WL 20Gels 152.5Solids 10% PV 10YP 1.44 pHOil 88 %Sand 1005 %Cake 2PPMCL 240000PPMCA 240000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	C
4	216	HC-GT28M	X61CV	12-15	30-25		132	161	20	2542	1.66	Rang		

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m ³ /MIN	DP	DC			
4	11.9	11.9	11.9	203	102	152	1.15	46	78			9000

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

° at _____ m	° at _____ m	<u>Cutter 2" - 18m³</u>	
° at _____ m	° at _____ m		
° at _____ m	° at _____ m		
° at _____ m	° at _____ m		

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION		TODAY	CUM.
1- Bit		216		24	1. Drilling		20	
1- Drilling Motor		165		1618	2. Trips			
1- Flow Sub		160		48	3. Rig Service		1/2	
1- Mud-Headlog		168		9.44	4. Deviation Surveys			
1- Pulser Sub		160		114	5. Ream & Cond. Hole			
1- Headlag Dr. C.		158		9.40	6. Mix & Cond. Mud			
1- X0 Sub		170		44	7. Circulation			
1- Drill Collars		120		57.28	8. Rig Repair			
1- Drilling Tool		120		2.86	9. Run Casing & Cement			
9- D.H.T. Collars		120		123.28	10. Fishing			
1- X0 Sub		164		158	11. Logging			
6- Heavy Weight Pipe		114		54.98	12. Coring			
167- Drill Pipe		114		162.24	13. Formation Testing			
COSTS					14. Waiting on:			
					15. Nipple Up & Test BOPS			
DAILY					16. Drilling Out			
CUMMULATIVE					17. Lost Circ.			
					18. Laying Down DP & BOP's			
					19. Plug & Abandon			
					20. Rig up - Tear out			
SUPERVISOR					21. Directional Surveys		3 1/2	
					TOTAL		24	

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-27-24:00
Yr - Mon - Day - TimeWELL NAME Paramount at Altheahead LOCATION D-15-60-50-123-02

OPERATIONS DETAIL:

18

Directional drill starts Hole - Hole Angle Holding at $+4^{\circ}$ will have to bring Angle back to 3° or less before getting Hole successfully turned. Have to Turn Hole to 240° and have come from 84° to 170° - Still have more turning in Hole to get done before getting bottom of Hole back into Location Area - Since Motor has been directionally drilled to 1890 ft - Using Mud Motor and Sliding Drill String. Sent out Load of Solids to Ft St John - Brought in Load of Sandust with Incoming Truck.

WANT LIST:

WEATHER: Clear - Cold - 20 Kall Wind - -20°C ROAD: Good on H/Way - Rough to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

January 28, 1999
5:49 amPathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177p

Vertical Section Calculated on: 57.9000

Survey Calculation Method: Minimum Curvature

FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Doglog /30m	Subsea Meters
12	1684.59	3.90	72.60	1683.62	23.92	18.73	29.58	1.67	-1296.92
13	1694.12	4.30	77.20	1693.12	24.10	19.39	29.23	1.63	-1306.42
14	1703.85	4.60	83.70	1702.82	24.22	20.13	29.93	1.81	-1316.12
15	1713.57	4.80	88.10	1712.51	24.28	20.93	30.63	1.27	-1325.81
16	1723.24	4.90	91.70	1722.15	24.28	21.74	31.32	0.89	-1335.45
17	1732.89	4.60	100.10	1731.76	24.20	22.54	31.95	2.35	-1345.06
18	1742.71	4.50	109.80	1741.55	24.00	23.29	32.48	2.37	-1354.65
19	1752.23	4.80	116.00	1751.04	23.71	23.98	32.91	1.58	-1364.34
20	1761.91	4.40	121.20	1760.69	23.34	24.65	33.29	1.41	-1373.99
21	1771.60	4.20	120.30	1770.35	22.97	25.27	33.62	0.65	-1383.65
22	1781.42	3.90	118.20	1780.15	22.63	25.88	33.95	1.02	-1393.45
23	1791.13	3.90	118.30	1789.84	22.32	26.46	34.28	0.02	-1403.14
24	1800.95	3.70	132.40	1799.64	21.95	26.99	34.53	2.91	-1412.94
25	1810.58	4.40	150.80	1809.24	21.42	27.40	34.59	4.57	-1422.64
26	1820.39	4.90	161.40	1819.02	20.69	27.71	34.47	3.03	-1432.32
27	1830.21	4.80	168.70	1828.81	19.89	27.93	34.23	1.91	-1442.11
28	1839.94	4.40	165.40	1838.50	19.13	28.10	33.97	1.48	-1451.80
29	1849.75	4.10	169.40	1848.29	18.42	26.26	33.73	1.29	-1461.59
30	1859.12	3.80	174.60	1857.64	17.78	28.35	33.47	1.50	-1470.94
31	1868.43	3.50	183.90	1866.93	17.19	28.36	33.16	2.14	-1480.23

Closure is 33.1662 Meters on an azimuth of 58.7782

Geological Morning Report**Jan 28, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 11
Target Location: O-15

Date: Jan 28, 1999 **Depth:** 1883m
Time: 06:00 hrs **Progress:** 136m
Hours Drilling: 19 **Average ROP:** 7.2m / hr

Formation: Kotcho

Operational Status: Drilling

Operational Summary: Drill directional hole.

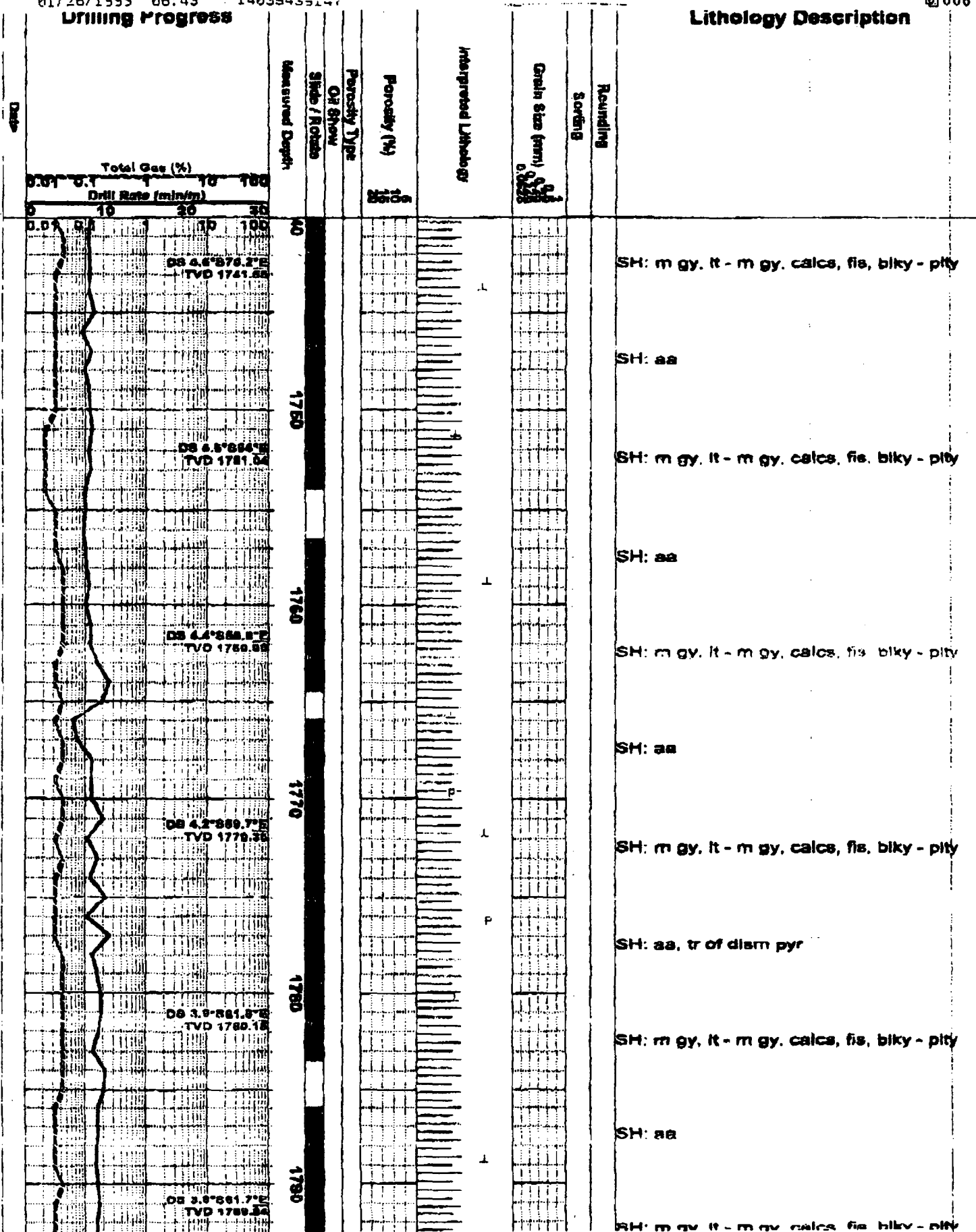
Remarks: Shale. Calcareous shale, Limy stringers. No shows. No gas.
Had a setback but hole is now moving south and dropping
angle. We'll work on west a little later.

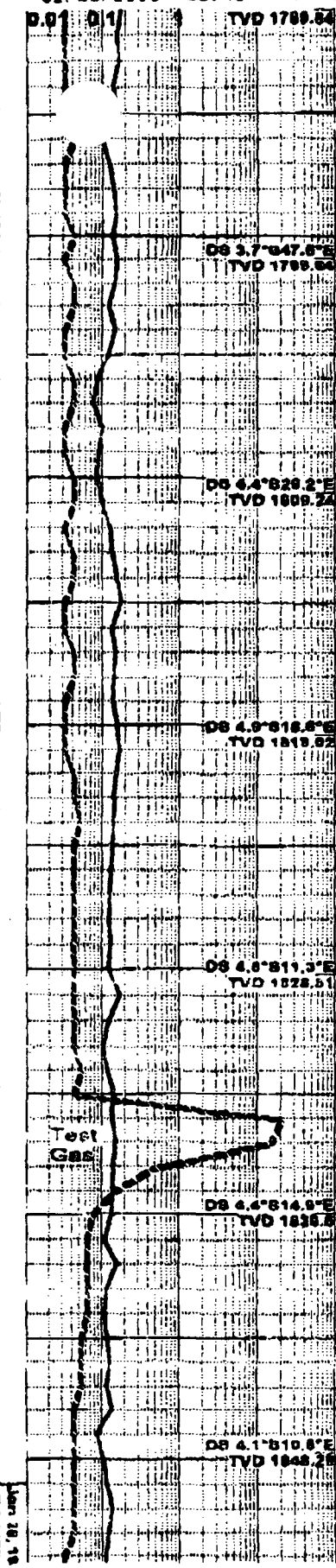
Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Drilling Progress

Lithology Description





1800

1810

1820

1830

1840

1850

SH: m gy, lt - m gy, calca, fis, biky - pty

SH: aa

SH: m gy, lt - m gy, calca, fis, biky - pty

SH: aa

SH: m gy, lt - m gy, calca, fis, biky - pty

SH: aa

SH: m gy, lt - m gy, calca, fis, biky - pty

SH: aa

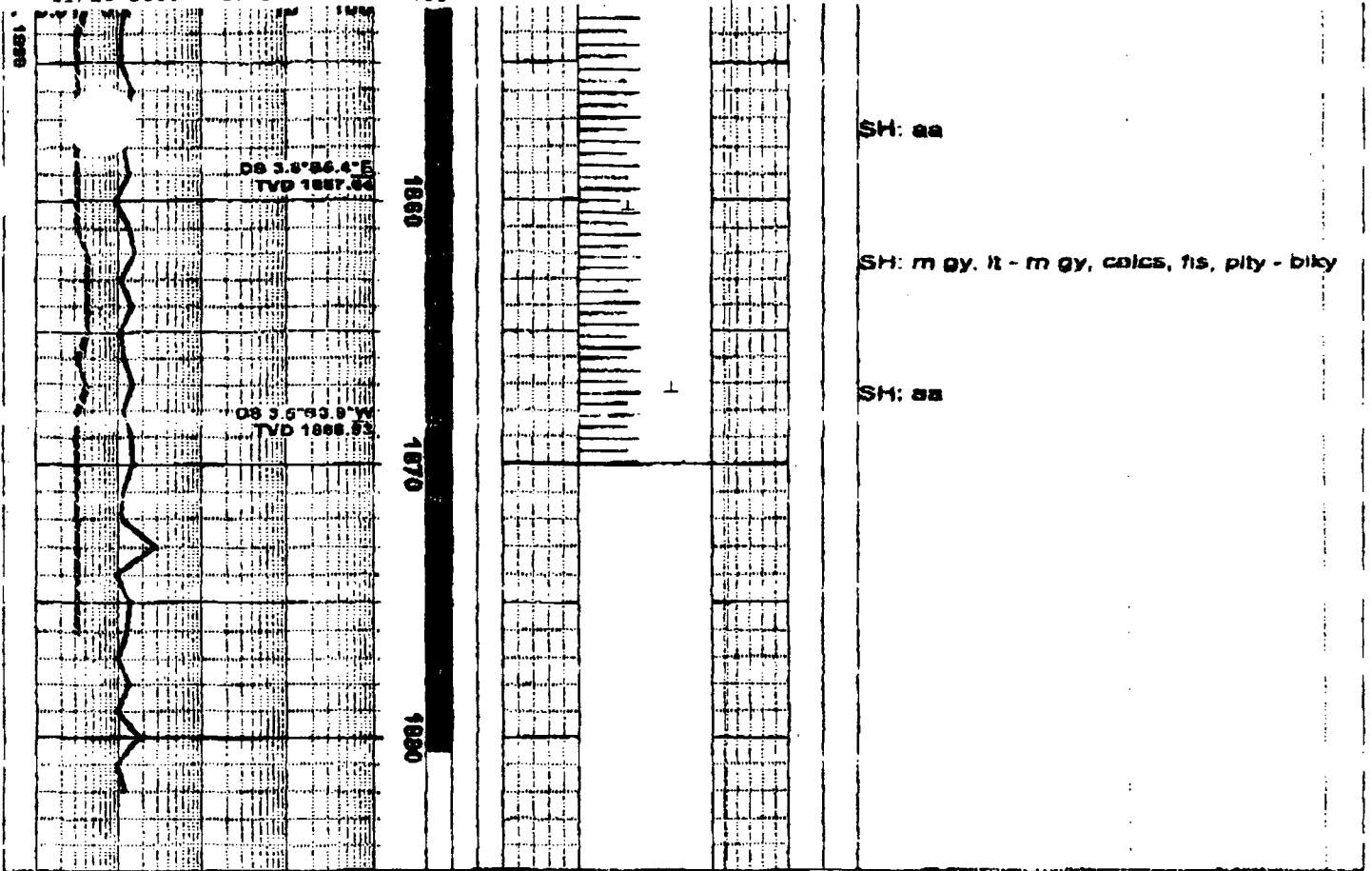
SH: m gy, lt - m gy, calca, fis, biky - pty

SH: aa

SH: m gy, lt - m gy, calca, fis, pty - biky

SH: aa

SH: m gy, lt - m gy, calca, fis, biky - pty



PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 01-27-99
Mon - Day - Time

WELL NAME Paramount Total Overhead LOCATION 15-60-50-123-00
 Day 10 Depth 1716 Meters last 24 hr 48 Rotating hrs 9 1/4
 Activity at report time Directional Drill 16m Hole @ 1250 M @ 02:00 Hrs

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 965 Vis 50 WL 20 Gels 1.512.5 Solids 5.8 % PV 10 YP 96 pH 16
 Oil 92.5 % Sand 1005 % Cake 2 PPMCL 250000 PPMCa 240000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH m	CUM. m	Rot hrs	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM						T	B	G
3	216	Vocal-121618	90282	2-12	110	1687	86	3 3/4	20 3/4	4.25	3	3	20
4	216	HC-GT18m	X61011	12-16	90-75		29	5 1/2	5 1/2	5.27			Rough

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER m/min	EF	DC			
4	11.9	11.9	11.9	203	100	152	1.1	78			9300

DEVIATION SURVEYS

3 at 1668 m at m
 2.5 at 1674 m 67° at m
 3.9 at 1685 m 72.6° at m
 4.3 at 1694 m 72.2° at m

MUD & CHEMICALS ADDED

Bentonite - 159ax

BOTTOM HOLE ASSEMBLY

TONL	ID mm	OD mm	LENGTH m	WEIGHT kg
1-Bit		216	.24	
1-DH Gate		165	6.18	
1-Float Sub		160	.48	
1-MWD-Downlog		168	9.44	
1-Pulser Sub		160	1.14	
1-Downlog 2.C.		158	9.40	
1-XO Sub		170	.44	
1-Drill Collars		170	57.02	
1-Drilling Jar		170	3.86	
9-Drill Collars		170	173.28	
1-XO Sub		164	.58	
1-Heel Water Pipe		114	54.98	
152 Drill Pipe		114	1476.16	

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	9 1/4	
2. Trips	7 1/4	
3. Rig Service	1/2	
4. Deviation Surveys	1/2	
5. Beam & Cond. Hole		
6. Beam & Cond. Mud		
7. Circulation	1/2	
8. Rig Repair		
9. Rig Casing & Cement		
10.		
11. Logging		
12. Casing		
13. Formation Testing		
14. Waiting on: Directional Drill	3 1/2	
15. Rig Up & Test BOPS		
16. Drilling Out		
17. Rig Circ.		
18. Casing Down DP & BOP's		
19. Rig & Abandon		
20. Rig up - Tear out		
21. Directional Surveys	3/4	
TOTAL		

COSTS

DAILY 5000
 CUMMULATIVE 44200

SUPERVISOR Wilbert Callibee

PARA-DRI_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-26-24:00
Yr-Mon-Day-TimeWELL NAME: Paramount Arrowhead LOCATION: 8-5-60-50-123-02

OPERATIONS DETAIL:

Drill 216mm Hole w/ 5-6000 den Bit Weight - Read survey at 1669m -
 deviation out to 3° - Drill Ahead to 1677m - Pull out of Hole to Pick up
 Directional Drilling Tools which had arrived last P.M. - Wait on
 Directional Drilling Operator to Arrive - When out of Hole @ 1680m
 Operator Arrived @ 11:30 Hrs. - Pick up - Make up and Run in with
 Directional Drilling Tools - Survey at Casing Shoe @ 1190m and every
 5 Stands on way to Bottom - Drill Ahead with Mud Motor and Rotate
 2-3.5m on every Single Drilled -

Deviation at Bottom of Hole @ 1687m was 24.20m Northward 22.54m
 East - Start to Bring Hole Angle and Direction back since midnite

WANT LIST:

WEATHER: Clear Cold - Wind 30kph - 16°CROAD: Good on Hwy - Rough to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report

Jan 27, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 Spud Date: Re-entry
Grid Area: 60° 30' 123° 00' Days from Entry: 10
Target Location: O-15

Date: Jan 27, 1999
Time: 06:00 hrs
Hours Drilling: 10.5

Depth: ~~1685m~~ 1747m
Progress: 60m
Average ROP: 5.7m / hr

Formation: Kotcho

Operational Status: Drilling

Operational Summary: Trip for directional tools, Drill directional hole.

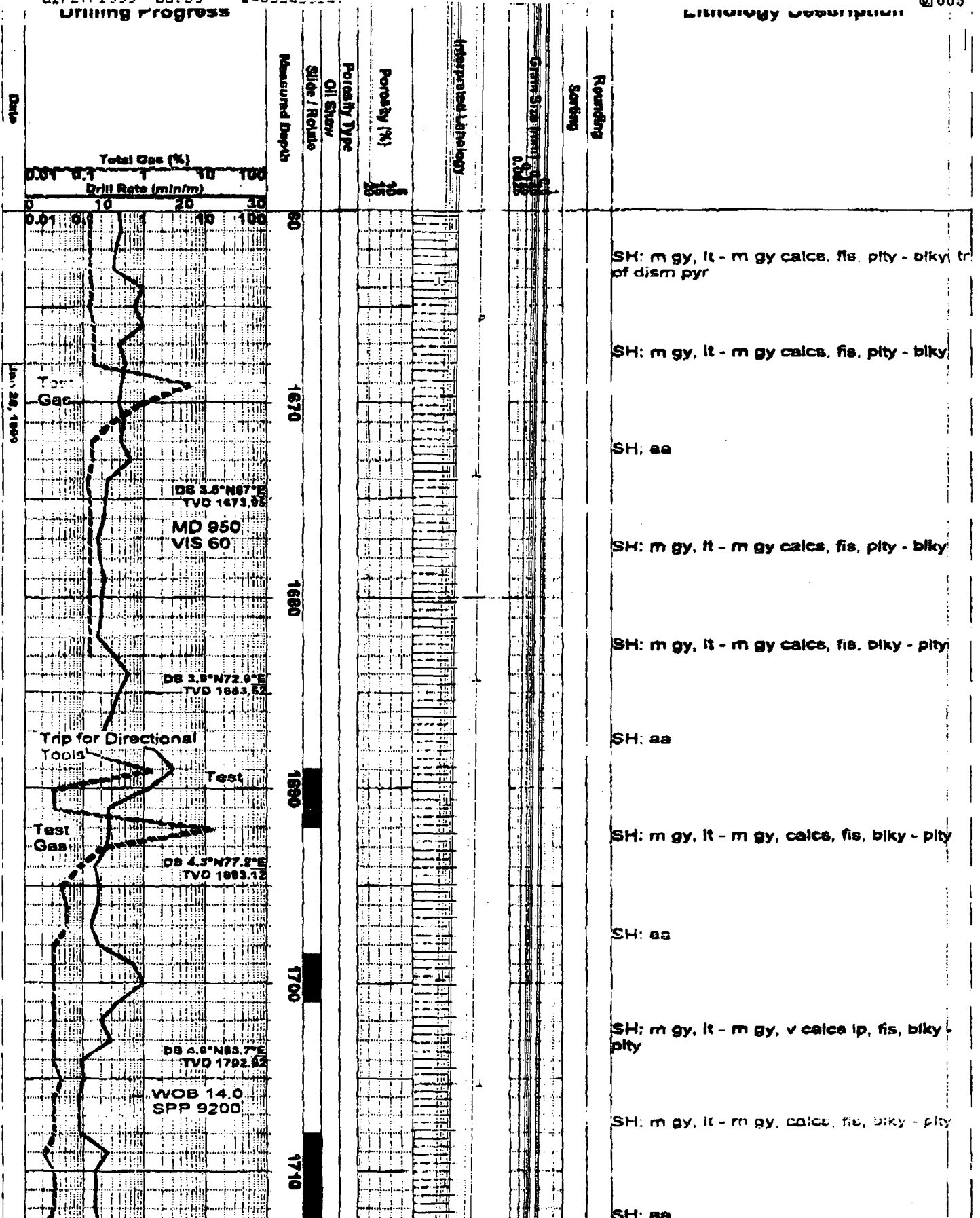
Remarks: Shale. Calcarenous shale, Limy stringers. No shows. Hole wants to build NE. Got out to 4.9°. Last survey was starting to drop angle (4.6°) but it took a lot of slide to do it. Section is 33m. ROP 6-8m / hr. Gas is negligible.

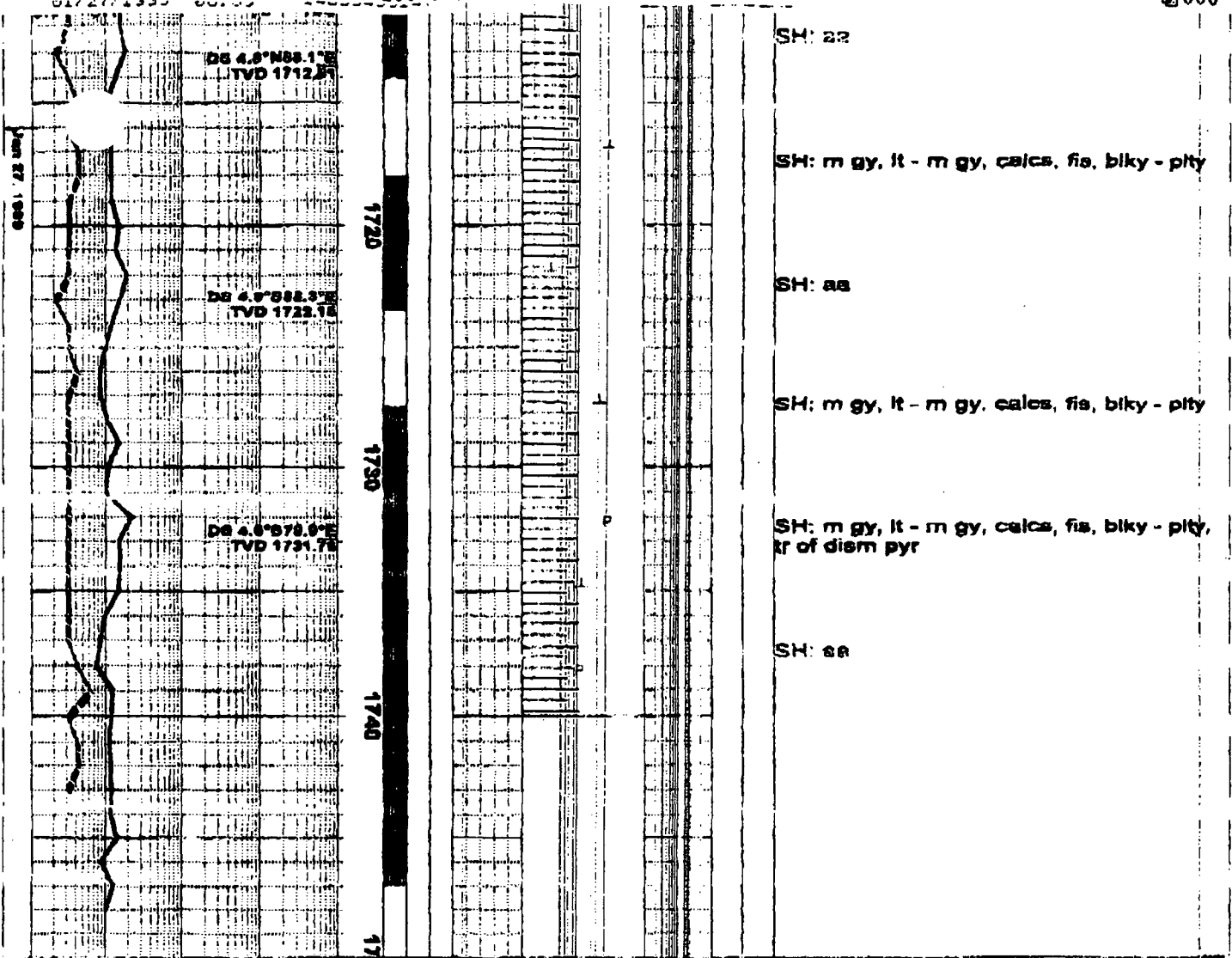
Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Drilling Progress

Lithology Description





January 27, 1999
5:47 amPathTracker 4.0
Survey Calculation Program
UNITED GEOCOM DRILLING SERVICES

Page 1 of 1

Customer: PARAMOUNT RESOURCES LTD.
WellName: Paramount Berkley Arrowhead 0-15
Location: Lat 60 24' Long 123 02'
Co Rep: Wilbert Callihoo
File #: 9177pVertical Section Calculated on: 41.8600
Survey Calculation Method: Minimum Curvature
FileName: C:\PATHTRKR\9177.SR3

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Degleg /30m	Subsea Meters
0	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	-113.30
1	550.00	0.32	78.80	550.00	0.03	0.14	0.11	0.19	-163.30
2	660.32	0.35	91.07	660.32	0.08	0.78	0.58	0.02	-273.62
3	774.00	0.46	104.70	774.00	-0.04	1.56	1.01	0.04	-397.30
4	886.00	0.81	55.62	886.99	0.29	2.65	1.99	0.17	-499.29
5	1001.00	2.77	68.29	1000.93	1.78	5.91	5.26	0.52	-614.23
6	1113.00	4.10	61.14	1112.72	4.71	11.93	11.47	0.37	-726.02
7	1202.36	4.20	58.20	1201.85	7.93	17.54	17.61	0.06	-815.15
8	1337.65	2.80	316.80	1336.99	12.71	19.69	22.60	1.20	-960.29
9	1472.58	1.90	317.10	1471.81	16.58	16.07	23.07	0.16	-1085.11
10	1616.57	2.60	23.70	1615.70	21.60	15.91	26.75	0.58	-1225.00
11	1674.90	3.50	67.00	1673.95	23.71	18.15	29.77	1.25	-1287.25
12	1684.59	3.90	72.60	1683.62	23.92	18.73	30.32	1.67	-1296.92
13	1694.12	4.30	77.20	1693.12	24.10	19.39	30.89	1.63	-1306.42
14	1703.85	4.60	83.70	1702.82	24.22	20.13	31.48	1.81	-1316.12
15	1713.57	4.80	88.10	1712.51	24.28	20.83	32.05	1.27	-1325.81
16	1723.24	4.90	91.70	1722.15	24.26	21.74	32.59	0.99	-1335.45
17	1732.89	4.60	100.10	1731.76	24.20	22.54	33.08	2.35	-1345.06

Closure is 33.0690 Meters on an azimuth of 42.9637

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-25-24:00
Yr - Mo - Day - Time

WELL NAME Paramount at Amouhad LOCATION 0-15-60-50-123-02
 Day 9 Depth 1468 Metres last 24 hr 52 Rotating hrs 17
 Activity at report time Pull out of Hole 0148201 - to Pick up directional Tools

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 955 Vis 50 WL 20 Gels 1.525 Solids 5.5 % PV 10 YP 96 pH —
 Oil 92 % Sand .005 % Cake 2 PPMCL 240000 PPMCa 240000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
3	216	Sec. 6533F	270987	6-7	80-90	1468	✓	161	✓	2674	24.8	2-2	3	IN
RA2	216	Sec. 12016G	99282	6-7	100-110	—	52	52	12	17	3.05	800g		

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP			ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m'/MIN	DP			
2	9.5	9.5	9.5	203	100	152	1.1	46	78		7200
288	11.1	11.1	11.1	203	100	152	1.1	46	78		5800

DEVIATION SURVEYS

3	at	1640	m	at	m
	at	m		at	m
	at	m		at	m
	at	m		at	m

MUD & CHEMICALS ADDED

Barta-15 gal

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
1- Bit		216	.24	
1- Shock Sub		170	1.08	
6- Drill Collars		170	57.08	
1- Drill Pipe		170	3.86	
9- Drill Collars		170	85.04	
1- X-Sub		163	.58	
6- Revolute Pipe		114	54.58	
- Drill Pipe		114		
1- Kelly		114		

TIME ANALYSIS

OPERATION	TODAY	CUM.
1. Drilling	17	
2. Trips	43/4	
3. Rig Service	1	
4. Deviation Surveys	1/2	
5. Ream & Cond. Hole <u>Clear to Bottom</u>	1/2	
6. Mix & Cond. Mud		
7. Circulation	1/4	
8. Rig Repair		
9. Run Casing & Cement		
10. Fishing		
11. Logging		
12. Coring		
13. Formation Testing		
14. Waiting on:		
15. Nipple Up & Test BOPs		
16. Drilling Out		
17. Lost Circ.		
18. Laying Down DP & BOP's		
19. Plug & Abandon		
20. Rig up - Tear out		
21.		
TOTAL	24	

COSTS

DAILY 23300
 CUMMULATIVE 591,200

SUPERVISOR Wilbert Callisto

PARAM-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-25-24:00
Yr - Mon - Day - TimeWELL NAME Paramount at Arrowhead LOCATION 0-15-60-50-123-02

OPERATIONS DETAIL:

Finish Pulling out of hole - lay down wear bit stabilizer and string stabilizer - Run in with Ra Run Tooth Bit + Slick String Break Circ - Wash and Clean to Bottom - Drill Ahead with 5-6⁰⁰⁰ lbs Bit Weight and 110 RPM Rotary Speed - Drill Ahead for 30 m and Run Survey @ 1640 m - Deviation still at 3° - Drill Ahead carrying 1000 lbs Bit Weight - Since Midnite Run Survey @ 1620 m - deviation still at 3° with more Bit Weight - Pull out of Hole to pick up Directional Tools

WANT LIST:

WEATHER: Clear - Calm - Cool -18°CROAD: Good on Highway - Rough to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report**Jan 26, 1999****Report To: Paul Collens****Report from: Colin Bredin****1-250-774-0521****Satellite Phone: 1-600-700-5443****Satellite Fax: 1-403-543-9147****Well Name: Paramount Berkley Arrowhead O-15 Spud Date: Re-entry****Grid Area: 60° 30' 123° 00'****Days from Entry: 9****Target Location: O-15****Date: Jan 26, 1999****Depth: 1687m****Time: 06:00 hrs****Progress: 70m****Hours Drilling: 19.5****Average ROP: 3.6m / hr****Formation: Kotecho****Operational Status: Tripping****Operational Summary: Drill and survey as required. Hoist for Directional Tools.**

Remarks: Shale. Calcareous shale. Limy stringers. No shows. Last 3 surveys were holding at 3°, not coming back. Currently tripping for Motor / MWD. Plan is to bring the hole gradually back to center, unless you're in a hurry. Gas sniffer is working okay. Trivac sample processor meeting expectations. Hole seems to be in good shape. Hope to increase penetration rate once we get heading the right way.

**Paramount Resources Ltd.
3000156030123000****Paramount Berkley Arrowhead O-15
60° 30' 123° 00'**

. O-15

-Missing Jan. 22/99

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-24-24:00
Yr - Mo - Day - TimeWELL NAME Paramount et al Head LOCATION A-15-60-20-128-02
Day 8 Depth 1616 Metres last 24 hr 88 Rotating hrs 18 1/2
Activity at report time Drill 215mm Hole with Tooth Bit @ 1620

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 950 Vis 1.0 WL 20 Gels 15/2.5 Solids 5.8 % PV 10 YP 1.44 pH
Oil 91 % Sand .005 % Cake 2 PPMCL 200000 PPMCa 200000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM. m DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	R	C
3	216	Ex-GS32F	20987	6-T	80-90		88	161	18 1/2	26 1/4	244.4	244.4	244.4	244.4

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m³/MIN	DP	DC			
3	9.5	9.5	9.5	203	100	152	1.1	46	98			7200

DEVIATION SURVEYS

2 3/4" at 1534 m
2 1/2" at 1544 m
3" at 1611 m
at m

MUD & CHEMICALS ADDED

Invent-130m³

BOTTOM HOLE ASSEMBLY

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN
Bit		216	.24	
1- Nam Bit Stab		214	1.08	
2- Drill Collars		170	19.14	
1- String Stab		214	1.44	
3- Drill Collars		170	28.56	
1- Drilling Pipe		170	3.86	
10- Drill Collars		170	94.42	
1- X-0 Sub		143	.58	
6- Heavy Wire Pipe		114	54.58	
146- Drill Pipe		114	408.08	
1- Kelly		114	4.22	

TIME ANALYSIS

OPERATION				TODAY	CUM.
1. Drilling				18 1/2	
2. Trips				1 1/4	
3. Rig Service				1/2	
4. Deviation Surveys				1/2	
5. Ream & Cond. Hole					
6. Mix & Cond. Mud					
7. Circulation				2 1/4	
8. Rig Repair					
9. Run Casing & Cement					
10. Fishing					
11. Logging					
12. Coring					
13. Formation Testing					
14. Waiting on;					
15. Nipple Up & Test BOPS					
16. Drilling Out					
17. Lost Circ.					
18. Laying Down DI & ROP's					
19. Plug & Abandon					
20. Rig up - Tear out					
21.					
TOTAL				24	

COSTS

DAILY 23000
CUMMULATIVE 560900

SUPERVISOR

Wilbert Callitao

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-24-24:00
Yr - Mo - Day - Time

WELL NAME Paramount at Algonquinhead LOCATION 0-15-W-50-123-P2

OPERATIONS DETAIL:

(+)

Drill Ahead with 216 mm Button Bit - Carrying 6-7 m on Bit Weight
Drill at 4-8 m/Hr - Cize to Clean Hole and Run Survey over 8 m
Deviation came in from 2 1/4 (which was Deviation at this depth to
Old Hole) to 2 1/2 - Drilled ahead 50 m and Run Survey - Deviation
out to 3° at 140 m - Cize to Clean Hole - Pump weight material P-11
Pull out of Hole For Bit Change and Leave out Stabilizers
Since Sidrite - Made Trip - Run in with Re Run Two 1/2 ft
Drill Ahead at 3 m/Hr with 6-6 m on Bit Weight - Rotate 110 RPM

WANT LIST:

WEATHER: Clear-Calm-Cool -18°C

ROAD: Good Highway-Rough to Location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report

Jan 25, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-708-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 8
Target Location: O-15

Date: Jan 25, 1999	Depth: 1617m
Time: 06:00 hrs	Progress: 57m
Hours Drilling: 13.5	Average ROP: 4.1m/hr

Formation: Kotcho

Operational Status: Drilling

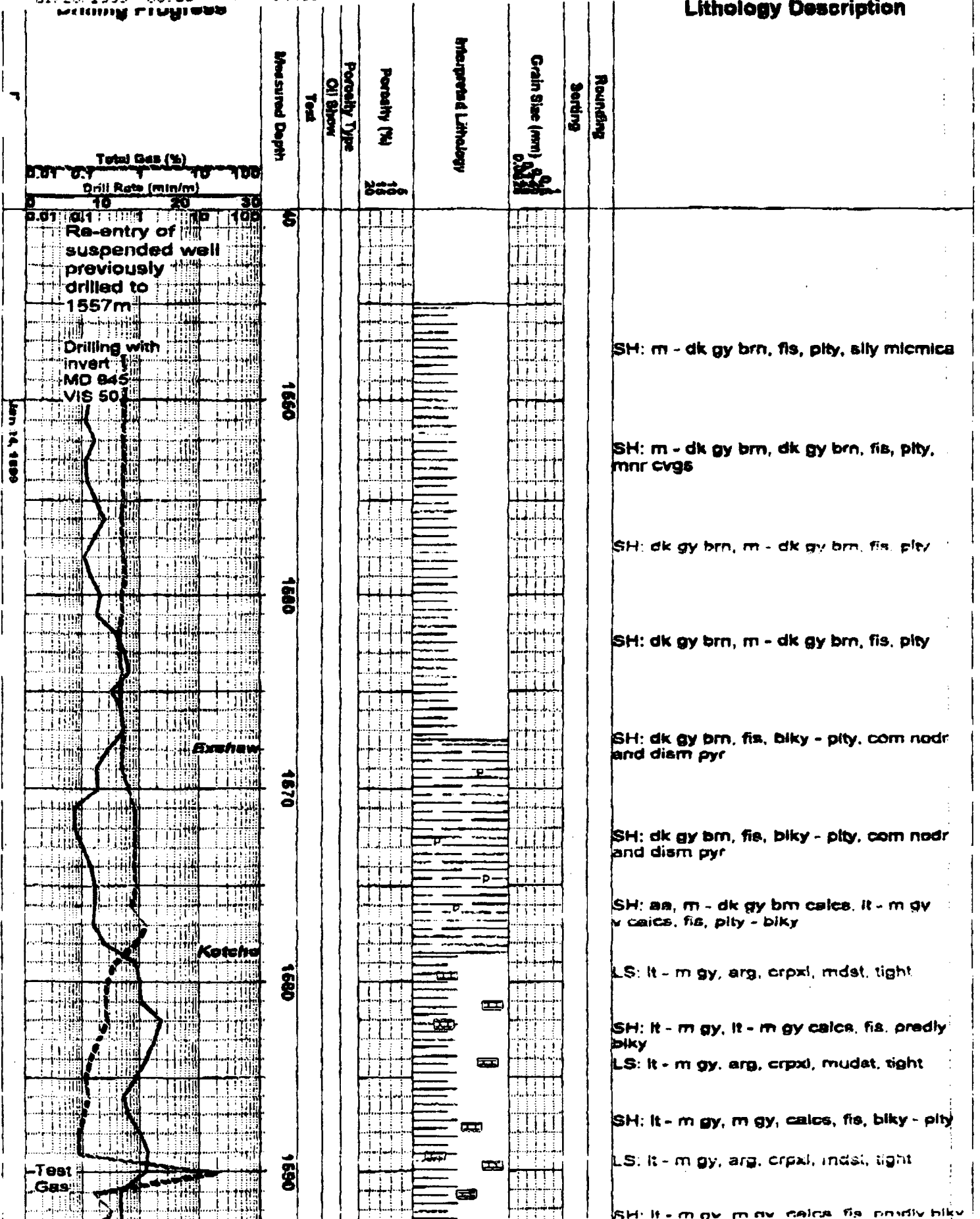
Operational Summary: Drill and survey as required. Trip for BHA, Drill.

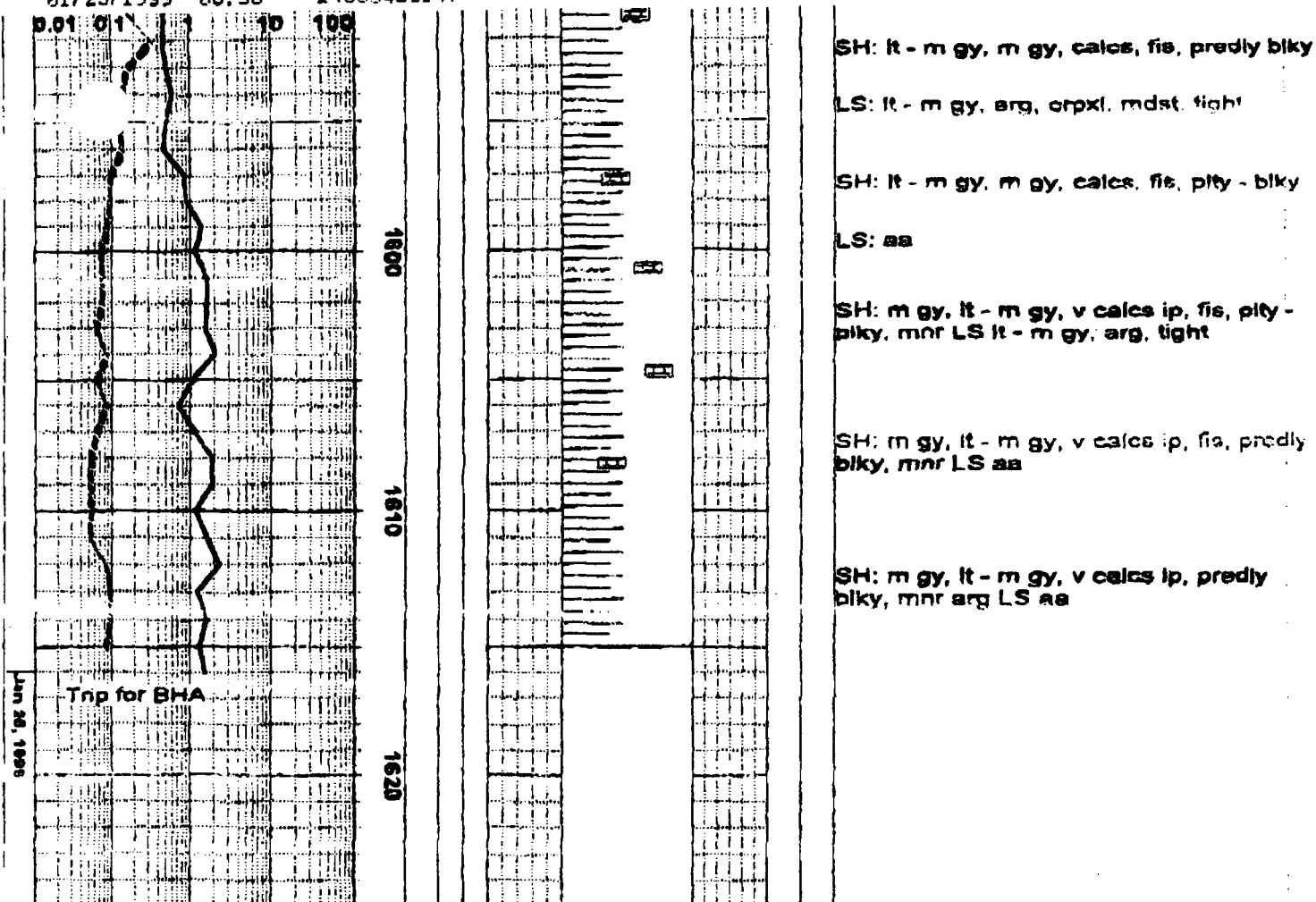
Remarks: Shale. Calcareous shale, Limestone stringers. No shows.
Exshaw 1567.5m (-1180.8), Kotcho 1578m (-1191.3).
Hole starting to build angle. 1611m @ 3°. Can't put any
weight on the bit so tripped to get rid of stabilization.
Directional tools are on the way.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Lithology Description





PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 99-01-25-24:00
Yr - Mon - Day - TimeWELL NAME Paramount at Alameda LOCATION 045-60-50-129-00
Day 7 Depth 1528 Metres last 24 hr 141 Rotating hrs 18 3/4
Activity at report time Drill Ahead 216mm Hole @ 1526m @ 02:30 Hrs

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PISTON

Wt 945 Vis SD WL 20 Gels 15/25 Solids 5 % PV 10 YP 1.44 pH
Oil 92 % Sand 0.05 % Cake 2 PPMCL 216666 PPMCa 200000

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
<u>3</u>	<u>216</u>	<u>Sec 6582F</u>	<u>720887</u>	<u>270</u>	<u>85-100</u>		<u>141</u>	<u>255</u>	<u>18 3/4</u>	<u>24</u>				<u>Km g</u>

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m'/MIN	DP	DC			
<u>3</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>203</u>	<u>100</u>	<u>152</u>	<u>1.1</u>	<u>46</u>	<u>78</u>			<u>7000</u>

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

1 1/2 at 1390 m ° at m
2 at 1419 m ° at m
2 at 1448 m ° at m
2 3/4 at 1506 m ° at m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID mm	OD mm	LENGTH m	WEIGHT daN	OPERATION		TODAY	CUM.
					1. Drilling		<u>7 3/4</u>	
<u>1 - Bit</u>		<u>216</u>	<u>.24</u>		2. Trips			
<u>1 - Near Bit Sub</u>		<u>214</u>	<u>1.08</u>		3. Rig Service		<u>1/2</u>	
<u>2 - Drill Collars</u>		<u>170</u>	<u>19.14</u>		4. Deviation Surveys		<u>2</u>	
<u>1 - String Stab</u>		<u>214</u>	<u>1.44</u>		5. Ream & Cond. Hole - <u>Drill Concept</u>		<u>11</u>	
<u>2 - Drill Collars</u>		<u>170</u>	<u>28.56</u>		6. Mix & Cond. Mud			
<u>1 - Drilling Tool</u>		<u>170</u>	<u>3.86</u>		7. Circulation		<u>2 1/2</u>	
<u>10 - Drill Collars</u>		<u>170</u>	<u>94.42</u>		8. Rig Repair			
<u>6 - Heavy Wall Pipe</u>		<u>114</u>	<u>33.98</u>		9. Run Casing & Cement			
<u>156 - Drill Pipe</u>		<u>114</u>	<u>1312.36</u>		10. Fishing			
<u>1 - Kelly</u>		<u>114</u>	<u>11.94</u>		11. Logging			
					12. Coring			
					13. Formation Testing			
					14. Waiting on:			
					15. Nipple Up & Test BOPS			
					16. Drilling Out			
					17. Lost Circ.			
					18. Laying Down DP & BOP's			
					19. Plug & Abandon			
					20. Rig up - Tear out			
					21. <u>BOP Drill</u>		<u>1/4</u>	
					TOTAL		<u>24</u>	

COSTS

DAILY 36520
CUMULATIVE 537,800

SUPERVISOR

Wilbert Callitao

PARA-DRL_RPT.xls

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT (page 2)

FOR 24 HR PERIOD ENDING 99-01-23-24:00
Yr - Mon - Day - TimeWELL NAME Paramount total fresh head LOCATION 0-15-60-00-123-000

OPERATIONS DETAIL:

Drill out Cement Plug in Hole - Carrying 3-5⁰⁰ dam on Bit to try
and keep Bit From Sliding off Cement Plug - Circle to Clean Hole and
Run Survey every 30m - Hole Angle staying the same as Surveys
on Original Hole - Drill out from Cement @ 14:30M - Drill Ahead
in New Hole carrying 9-10⁰⁰ dam on Bit - Hole Angle staying the
same @ 2 3/4° After Drilling 50M New Hole - Drill Ahead with
6-8⁰⁰ dam on Bit - Since Midnite have taken Survey at 15:00M
and Deviation still at 2 3/4° - Survey at 15:00M - 2 1/2°

WANT LIST:

WEATHER: Clear - Calm - Cool - -8°CROAD: Good highway - Rough to location

IN DETAIL: MOVEMENT OF PURCHASE & RENTAL ITEMS (WHERE, WHEN, HOW)

PARA-DRL_RPT2.xls

Geological Morning Report

Jan 24, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 7
Target Location: O-15

Date: Jan 24, 1999

Depth: 1560m

Time: 06:00 hrs

Progress: 145m

Hours Drilling: 18

Average ROP: 8.0m / hr

Formation: Banff

Operational Status: Drilling

Operational Summary: Drill and survey as required.

Remarks: Shale. No shows. Started saving samples at 1550m.
Drilling good, hole cleaning okay. Last survey at 1534m
was 2 3/4°. Will probably hold if we don't get too aggressive.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

Geological Morning Report

Jan 23, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 6
Target Location: O-15

Date: Jan 23, 1999
Time: 06:00 hrs
Hours Drilling: 17

Depth: 1415m
Progress: 142m
Average ROP: 8.3m / hr

Formation: Banff

Operational Status: Drilling

Operational Summary: Run in with new BHA. Drill and survey.

Remarks: No shows. Samples are mostly Shale at this point but still getting a lot of cement at times. May be in and out of old hole. Surveys are staying okay. 1390 was 1.5 degrees. Should be making new hole by noon. Gas sniffer running. Sampling every second single or whenever I see something interesting until we get to sample depth.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

PARAMOUNT RESOURCES LTD.**DAILY COMPLETION / WORKOVER REPORT**

L NAME: PARAMOUNT BERKLEY ARROWHEAD DATE: 99/01/24 REPORT NO: 45
 LOCATION: N 65 CONTRACTOR: CENALTA RIG # 42
 D (mKB): 2925 D PB10 (mKB) Csg Size (mm): 139.7 AFL # 27672
 FORMATION: SLAVE POINT Perforations:
 PURPOSE: COMPLETE AS A SLAVE POINT GAS WELL
 WELL HEAD PRESSURES (@08:00 hrs) SIPP: 0 kPa SICP: 0 kPa
 CURRENT OPERATIONS (@08:00 hrs) TRIP IN WITH ON - OFF CONNECTOR, PRESSURE TESTING ON TRIP IN.

FROM	TO	PREVIOUS DAYS OPERATIONS			
		SIPP	0 kPa	SICP	0 kPa
700	715	START & SERVICE RIG & EQUIPMENT, TAKE PRESSURE READINGS & HOLD SAFETY MEETING			
715	830	HOIST & LAY DOWN 54 JOINTS OF 88.9mm. - J 55 TUBING (NO OBVIOUS LEAK FOUND) .			
830	845	MEASURE TBG. LAYED OUT & REPLACEMENT TUBING TO BE PICKED UP .			
845	930	INSERT TBG. PLUG INTO PROFILE IN ON-OFF CONNECTOR & PRESSURE TEST TO 10 MPA .			
	930	FROM BOTH TOP & BOTTOM - HELD 21 MPA GOOD .			
930	1130	PICK UP , DRIFT & RUN 53 JOINTS OF 88.9mm. - J55 TUBING .			
1130	1245	ATTEMPT TO PRESSURE TEST TUBING TO 14 MPA . COULD NOT GET A PRESSURE TEST .			
1245	1700	RIG IN SLICKLINE AND PULL PRONG AND PLUG , INSPECT PLUG & RERUN PLUG & PRONG .			
	1700	ATTEMPT TO GET A PRESSURE TEST , PRESSURE UP TO 14 MPA , & DROPPED TO 0 IN 1 MIN .			
1700	1830	RIG IN SLICKLINE TRUCK , PULL PRONG & PULL PLUG , RIG OUT SLICKLINE TRUCK .			
1830	1930	TRIP OUT WITH 53 JOINTS OF TUBING , SECURE WELL & S.D.F.N. @ 1930 HRS .			

DAILY COST SUMMARY

Item	Amount	Item	Amount	Item	Amount
RIG	\$5,224.00	TOOL HAND & PKR	\$5,216.00	DAILY COST	\$21,602.00
SUPERVISION	\$745.00	TESTERS	\$1,416.00	PREVIOUS	\$1,098,207.00
RENTALS	\$532.00	SLICKLINE TRUCK	\$3,836.00	COST TO DATE	\$1,119,809.00
CAMP	\$2,500.00	WIRELINE TRUCK	\$750.00	AFL AMOUNT	\$1,085,548.00
SAFETY	\$750.00	TANK TRUCK	\$633.00		
RIG HOURS	12.5	MOBILE	1-600-700-5162	PREPARED BY	AL IRONSIDE
CUM RIG HRS	513	AREA	FT. LIARD, N.W.T.	RECEIVED BY	WAYNE TOMM

LOAD FLUID

Total Load Fluid	Daily Recovery	Recovered to Date	Load to Recover
Oil: <u>0.0 m³</u>	Oil: <u>0 m³</u>	Oil: <u>0 m³</u>	Oil: <u>0.0</u>
Water: <u>0 m³</u>	Water: <u>0 m³</u>	Water: <u>0 m³</u>	Water: <u>0</u>
			(+ new fluid)

PARAMOUNT RESOURCES LTD.

DAILY COMPLETION / WORKOVER REPORT

WELL NAME: PARAMOUNT BURKLEY ARROWHEAD DATE: 99/01/23 REPORT NO: 44
LOCATION: N 05 CONTRACTOR: CENALTA RIG # 12
TD (mKB): 2925.0 PBTD (mKB): 2612.5 Csg Size (mm): 139.7 AFF # 27678
FORMATION: SLAVE POINT Perforations:
PURPOSE: COMPLETE AS A SLAVE POINT GAS WELL
WELL HEAD PRESSURE @ 00:00 hrs: SHIP: 0 kPa SICP: 0 kPa
CURRENT OPERATIONS @ 00:00 hrs: PULL & LAY DOWN 8819mm - J 55 TBG

FROM	TO	PREVIOUS DAYS OPERATIONS			
		SHIP	0 kPa	SICP	0 kPa
700	715	START & SERVICE RIG & EQUIPMENT, TAKE PRESS. READINGS, SAFETY MEETING.			
715	730	HOOK UP PUMP LINES TO SUCK BACK DISPLACED WATER WHILE TRIPPING IN.			
730	830	FINISH TRIPPING IN WITH PACKER & T.C.P. - LAND TBG. IN DOGNUT, INSTALL T.I.W. VALVE.			
830		RIG IN WIRELINE TRUCK - LOG T.C.P. ON DEPTH - 1.26m. CORRECTION REQUIRED.			
1045	1045	MAKE ADJUSTMENTS, SET PACKER IN 5,000 DaN. COMPRESSION @ 2566.67m. KB.			
1045	1215	MAKE A CONFIRMATION LOG RUN, GUNS ON DEPTH TO CNL LOG DATED 98-02-21.			
1215		HOOK UP PUMP LINES TO PRESSURE TEST PACKER & ATTEMPT TO PRESSURE TEST PACKER. NO - TEST, SUSPECT HOLE IN TUBING.			
1500	1500	PLACE 15,000 DaN. COMPRESSION ON PACKER & ATTEMPT PRESSURE TEST - NO LUCK.			
1500	1700	PUMP SHREDDED SOFT LINE DOWN TBG. TO EXPOSE LEAK, TBG. TOOK 7.0m3. TO FILL.			
1700		TRIP OUT TO FIND HOLE IN TBG. - PULLED & RACKED IN DERRICK ALL L-80 TBG.			
2030		SECURE WELL & S.O.F.N. @ 2030 HRS.			

DAILY COST SUMMARY

Item	Amount	Item	Amount	Item	Amount
RIG	\$5,604.00	TOOL HAND	\$600.00	DAILY COST	\$65,947.00
SUPERVISION	\$745.00	TESTERS	\$1,416.00	PREVIOUS	\$1,032,260.00
RENTALS	\$532.00	WIRELINE TRUCK	\$53,800.00	COST TO DATE	\$1,098,207.00
CAMP	\$2,500.00			AFF AMOUNT	\$1,085,548.00
SAFETY	\$750.00				

RIG HOURS	14	MOBILE	1-600-700-5162	PREPARED BY	AL IRONSIDE
CUM RIG HRS	500.5	AREA	FT. LIARD, N.W.T.	RECEIVED BY	WAYNE TOMM

LOAD FLUID

Total Load Fluid		Daily Recovery		Recovered to Date		Load to Recover	
Oil:	0.0 m ³	Oil:	0 m ³	Oil:	0 m ³	Oil:	0.0
Water:	7.0 m ³	Water:	0 m ³	Water:	0 m ³	Water:	7.0
						(L) new fluid	

PARAMOUNT RESOURCES LTD.

DAILY COMPLETION / WORKOVER REPORT

WELL NAME: PARAMOUNT BERKEY ARROWHEAD DATE: 99/01/22 REPORT NO: 4.3
LOCATION: N-15 CONTRACTOR: CENALTA RIG # 42
TD (mKB): 2925.0 PBTD (mKB): 2612.5 Csg Size (mm): 139.7 AFE # 27678
FORMATION: SLAVE POINT Perforations:
PURPOSE: COMPLETE AS A SLAVE POINT GAS WELL
WELL HEAD PRESSURES @0800 hrs SITP: 0 kPa SICP: 0 kPa
CURRENT OPERATIONS @0800 hrs: FINISH TRIPPING IN WITH PACKER & T.C.P.

FROM	TO	PREVIOUS DAYS OPERATIONS
		SITP 0 kPa SICP 0 kPa
700	715	START & SERVICE RIG & EQUIPMENT, TAKE PRESSURE READINGS & HOLD SAFETY MEETING
715		RIG IN BAKER HUGHES / ATLAS TO RUN & SET A BRIDGE PLUG - RUN IN & SET A 139.7mm.
		CARDIUM "P" - WPP HIGH TEMP. - HIGH PRESS. BRIDGE PLUG SET @ 2612.5m. KB.
	1015	RIG OUT LINE TRUCK & HOOK UP PUMP LINES.
1015		FILL CASING WITH 6.30m. OF WATER & PRESSURE TEST BOTH CASINGS, BOTH LINER TOPS
	1100	BLIND RAMS & BRIDGE PLUG TO 21 MPa. FOR 15 MINUTES - GOOD TEST.
1100		MAKE UP A 101mm. H.S.C. TUBING CONVEYED PERFORATING GUN LOADED FOR A 7.0m.
		INTERVAL, A 13.0m. BLANK INTERVAL AND A 2.0m. INTERVAL WITH 38.5 GRAM CHARGES.
		18 S.P.M. & 60 DEGREE PHASING. T.C.P. RAN IN WITH RELATED SUBS & ACCESSORIES AND
		A 139.7mm. CARDIUM "PQDH" 14,300 (10 K) PACKER, STOP T.C.P. @ 2300 m. FOR NIGHT
	1900	BAKER / ATLAS DOES NOT RECOMMEND LEAVING UNFIRED GUNS SITTING @ 158 DEGREES
		SECURE WELL & S.D.F.N. @ 1900 HRS.

DAILY COST SUMMARY

Item	Amount	Item	Amount	Item	Amount
RIG	\$5,638.00	TOOL HAND & RP	\$2,000.00	DAILY COST	\$29,581.00
SUPERVISION	\$745.00	TESTERS	\$1,416.00	PREVIOUS	\$1,002,679.00
RENTALS	\$532.00	WIRE LINE (T.C.P.)	\$16,000.00	COST TO DATE	\$1,032,260.00
CAMP	\$2,500.00			AFE AMOUNT	\$1,085,548.00
SAFETY	\$750.00				
RIG HOURS	12	MOBILE	1-800-700-5182	PREPARED BY	AL IRONSIDE
CUM RIG HRS	486.5	ARFA	FT. LIARD, N.W.T.	RECEIVED BY	WAYNE TOMM

LOAD FLUID

Total Load Fluid	Daily Recovery	Recovered to Date	Load to Recover
Oil: 0.0 m ³	Oil: 0 m ³	Oil: 0 m ³	Oil: 0.0
Water: 0.0 m ³	Water: 0 m ³	Water: 0 m ³	Water: 0.0
			(+ new fluid)

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 3000156030123000LOCATION: PARA ETAL ARROWHEAD-15
WELL LICENCE WLD 1834SUPERVISOR: G. SANDERS
CELLULAR #: 1-6067005443
SPUD DATE: 99-01-17
R.R. DATE: _____
CONTRACTOR: PRECISION 507
A.F.E. #: 17178 EST. T.D. 3085DAILY COST: 43516
CUM. COST: 465830
DAILY MUD: _____
CUM MUD: _____Temp -32DAY: 5 REP DATE: 99-01-22 STATUS 08:00 REAMING TO 81m
DEPTH: 1273 PROG. 138m KB: 6.20 GL: 386.5 MACP: 14493
SURVEYS: 1212 4° 1222m 34° 1251m 2° 1264m 1°MUD TYPE: INVERT WT: 965 VISC: 65 WL: _____ FC: _____ PH: _____
ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
<u>2AR</u>	<u>90282</u>	<u>216</u>	<u>VARC</u>	<u>121616</u>	<u>3-11.1</u>	<u>1273</u>	<u>153</u>	<u>12.25</u>	<u>221</u>	<u>2.4</u>	<u>50/60</u>
<u>3</u>	<u>730987</u>	<u>216</u>	<u>SEC</u>	<u>GS82F</u>	<u>3-9.5</u>						

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
<u>OILWELL</u>	<u>PT600</u>	<u>152</u>							
<u>OILWELL</u>	<u>PT600</u>	<u>170</u>	<u>208</u>	<u>110</u>	<u>1.05</u>	<u>7200</u>	<u>78</u>	<u>46</u>	

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
<u>BIT</u>			<u>2.5</u>
<u>B/S NAR</u>			<u>1.07</u>
<u>228MM DC 2-DC</u>			<u>19.14</u>
<u>X/O STR STA</u>			<u>1.43</u>
<u>X/O 3DC</u>			<u>28.53</u>
<u>6DC JARS</u>			<u>3.86</u>
<u>10 DC</u>			<u>94.48</u>
<u>KELLY 6 HWD</u>			<u>54.98</u>
TOTAL			<u>203.70</u>

TIME DISTRIBUTION

MOVE/RIG-UP		RIG REP:	
DRILL MH & RH:		LOGGING:	
RIG SERVICE:	<u>.50</u>	CEMENT:	
SURVEY:	<u>2.25</u>	WOC:	
PRESSURE TEST:		RUN CSG:	
DRILL:		DST:	
DRILL OUT:	<u>10.75</u>	TRIP:	<u>7.00</u>
CIRCULATE:	<u>2.75</u>	L.D.D.S.:	
NIPPLE UP BOP:		REAM:	
B.O.P. Driv	<u>.25</u>	S/cor	<u>.50</u>

CASING SUMMARY

RAN	JTS OF	MM,	KG/M,	CASING.
LANDED AT	MKB.	TOTAL LENGTH	METERS.	
CEMENTED WITH				
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.	

DRILLED OUT CEMENT & SURVEY TO 1273m. HAD TO DRILL ALL THE WAY
NO SIGN OF OPEN HOLE FROM 1060m. HOLE COULD BE SWELLED IN A BIT ON
PLUGS INET. DRILLS THE SAME. LOTS OF CUTTING COMING OUT OF 1060
P.O. OF 1273m AND PICKED UP BHA. RAN IN TO 1186m AND HAD A
REAM WAY IN. DOESN'T TAKE MUCH TO REAM IN.
REAMING @ 1216m @ 06 to 08 hrs

DRILLING REPORT DAY 1

Geological Morning Report**Jan 22, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Grid Area: 60° 30' 123° 00' **Days from Entry:** 5
Target Location: O-15

Date: Jan 22, 1999
Time: 06:00 hrs
Hours Drilling: 9

Depth: in casing 1273m
Progress: 139m
Average ROP: 15.4m / hr

Formation: Banff

Operational Status: Tripping

Operational Summary: Drill out cement, Survey as required, Trip for BHA.

Remarks: Looks like we found the right hole. Dropping angle.
Drilling cement. Tripped for a stiffer BHA.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'



FIELD SERVICE REPORT "OIL MUD"

DATE	1/22/99	CHECK NUMBER	G
BPUD DATE	1/17/99	DAYS FROM BPUD	5
PRESENT ACTIVITY		Running in this hole	
HOLE SECTION		2nd Intermediate	

OPERATION		PARAMOUNT RESOURCES		CONTRACTOR		PRECISION DRILLING		WELL NO. 507	
REPORT FOR		Mr. GERRY SANDERS		REPORT FOR		Mr. PETE HUSTON			
WELL NAME AND LOCATION		PARAMOUNT BERKLEY(O-15)		60 - 24 - 54 - N - W		M		PROVINCE NWT	
BIT RECORD		DRILLING ASSEMBLY (ID(mm)-WV(Len(m))		HOLE OR CASING (ID(mm)-WV(Len(m))		CASING PROGRAM (ID(mm)-WV(Len(m))		ANNULAR VELOCITY (m/min-Flow-Dep(m))	
BIT NO. 3		PIPE 55.0 114.0 1078		225.0 1198		Cond		35.5 LA 1131	
SIZE mm 210		PIPE				Surf		62.5 LA 1168	
TYPE GB 82P		HVT 70.0 114.0 88				Interm 225.0 244.0 1198		53.1 LA 1273	
H. O. 1		DC							
O. 2		DC 37.0 121.0 142							
Z. 3		DC		210.0 8.0% 77		Prod			
L. 4									
E. 5									
S. 6									
MUD SYSTEM VOLUMES m³		OPEN HOLE 3.3		ANN. CAP. 36.0		PIPE CAP. 67.6		TANK CAP. 8.3	
						TOTAL 51.0		VOL DUMP. 85.2	
								OIL RATE 1.0m³/hr	
DEPTH IN m 1273									
WELL ON BIT 1.00									
DRILL RT. m/min									
FORCE ON BIT kN									
HOLE LOSS m³/hr		82.29							
BIT PRESS. LOSS MPa		3527.26							
PUMP EFFICIENCY		0.17							
WATER @ BIT		84.13							
TIME @ BIT		5:00							
MEASURED DEPTH m		1273							
FLOWLINE TEMP °C									
DENSITY kg/m³		940							
MUD GRAVITY		8.221							
HYDROSTATIC MPa @ 1273m		11738							
L.O.D. kg/m³		954							
ANN PRESS. LOSS MPa		181							
RUMBLE VIB m/s		60							
PLASTIC VIB m/s		11.00							
YIELD POINT Pa		1.02							
GEL STRENGTH Pa 10s/10 min		1.5							
K Pa/s		0.34							
SAND %		0.001							
OIL %		93.0%							
WATER %		3.0%							
SOLIDS %		4.0%							
BRINE %		3.3%							
SOLIDS %		2.8%							
OIL/BRINE RATIO		3.4							
E.E. VOLTS		1550							
MATERIALS ADDED SINCE LAST CHECK									
Code		Size		Product		Qty		Date	
5050		40.0 kg		MUD		35		1/20/99	
DATE		1/22/99		CHECKED		1/22/99			
BY		Judy Kerechuk		CHECKED		1/22/99			
BY TRUCKER		M.L. Powell Ltd.		CHECKED		1/22/99			
PRODUCT COST SINCE LAST CHECK		\$878.50		PRODUCT COST TO DATE		\$3,040.00			
TOTAL SERVICES COST TO DATE		\$0.00		TOTAL COST TO DATE		\$3,040.00			

IN CONSIDERATION OF THE FURNISHING OF THIS REPORT AND DATA, SUBSCRIPTIONS, IF IT APPEARS THAT NO RECOMMENDATIONS MADE HEREIN SHALL BE CONSIDERED AS NOTWITHSTANDING THE AGREEMENT OF ANY VALID PATENT, AND IT IS AGREED THAT BAKER HUGHES INTENDS SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE FURNISHING OF THIS REPORT AND DATA, SUGGESTIONS AND IS TO BE HELD HARMLESS.

NOTE: WP = WATER PHASE, MUD = MUD, LA = LAMINAR FLOW, TR = TRANSITIONAL FLOW, TU = TURBULENT FLOW

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 3604156030123000LOCATION: PARA ETAL ARROWHEAD 6-15
WELL LICENCE W101834SUPERVISOR: G. SANDERS
CELLULAR #: 1-600-706-5448
SPUD DATE: 99-01-17
R.R. DATE: _____
CONTRACTOR: PRECISION 567
A.F.E. #: 17178 EST. T.D. 3085DAILY COST: 32179
CUM. COST: 422314
DAILY MUD: 700
CUM MUD: 1800TEMP -30DAY: 4 REP DATE: 99-01-21 STATUS 0800 DRILL OUT CEMENT
DEPTH: 1135 PROG. 22 KB: 6.20 GL: 386.6 MACP: 11953
SURVEYS: _____MUD TYPE: INVERT WT: 9.65 VISC: 65 WL: _____ FC: _____ PH: _____
ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
<u>2RB</u>	<u>90252</u>	<u>216</u>	<u>PARCEL</u>	<u>4216 X 0</u>	<u>3-11.1</u>		<u>22</u>	<u>1.5</u>	<u>60</u>	<u>2.3</u>	<u>40</u>

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
<u>OIL WELL</u>	<u>PT600</u>	<u>152</u>	<u>203</u>	<u>100</u>	<u>1.05-1.1</u>	<u>4600</u>	<u>78</u>	<u>46</u>	
<u>OIL WELL</u>	<u>PT600</u>	<u>140</u>	<u>203</u>						

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT	<u>216</u>		<u>.25</u>
B/S	<u>173</u>		<u>1.06</u>
<u>15' 100'</u>	<u>171</u>		<u>132.58</u>
<u>6' HW DP</u>	<u>163</u>		<u>54.98</u>
<u>X4 Sub</u>	<u>163</u>		<u>.58</u>
KELLY			
TOTAL			<u>189.37</u>

TIME DISTRIBUTION

MOVE/RIG-UP		RIG REP:	
DRILL MH & RH:		LOGGING:	
RIG SERVICE:	<u>.50</u>	CEMENT:	
SURVEY:		WOC:	
PRESSURE TEST:	<u>2.75</u>	RUN CSG:	
DRILL:	<u>1.50</u>	DST:	
DRILL OUT:		TRIP:	<u>9.25</u>
CIRCULATE:	<u>.50</u>	L.D.D.S.:	
NIPPLE UP BOP:	<u>8.75</u>	REAM:	
FISH	<u>.75</u>		

CASING SUMMARY

RAN	JTS OF	MM,	KG/M,	CASING.
LANDED AT	MKB.	TOTAL LENGTH	METERS.	
CEMENTED WITH				
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.	

FINNISHED TRIP OUT W/ MAGNET. Full at 3000.

Picked up B.O.P. STAGE AND CHANGED OUT TUBING HANGER TO CS9 HANGER
Nipped up. B.O.P. & Flow Line. - PRESSURE TESTED Btm PIPE Ram. CS9 HANGER
KILL LINE - MANIFOLD LINES & VALVES 14000 KPA Low & 21000 KPA High is max OK
RAN IN W/ MAGNET. WORKED MAGNET. P.O.H. RECOVERED MAGNET Full in
Fillings. No large pieces.
RAN IN W/ BIT. DRILLING OUT CEMENT w/ 2-3 dec. VERY Poor CEMENT
JOB. ANY WHITE FROM 10-25m/hr VERY Patchy CEMENT.

DRILLING REPORT DAY 1

Geological Morning Report**Jan 21, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Surface Location: 60° 30' 123° 00' **Days from Entry:**
Target Location: O-15

Date: Jan 21, 1999 **Depth:** in casing 1134m
Time: 06:00 hrs **Progreas:** 22m
Hours Drilling: **Average ROP:** m / hr

Formation: In casing

Operational Status: Drilling

Operational Summary: Hoist magnet, Change out spool and pressure test stack.
Trip magnet, Run in with bit and drill out cement.

Remarks: Looks like we are back in business. Hope to see new dirt tomorrow.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

LOCATION: PARA CRAL ARRUWITEN 0-15
WELL LICENCE WID 1834

DAILY COST:	28791
CUM. COST:	370135
DAILY MUD:	1100
CUM MUD:	1100
TEMP:	-20

MUD TYPE: INVERT WT: 965 VISC: 65 WL: _____ FG: _____ PH: _____
ADDITIVES:

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
OIL WELL	PT600	157	203	100	1.45 m3	4500	7.8	Y6	
OIL WELL	PT600	146	203						

MOVE/RIG-UP	_____	RIG REP:	_____
DRILL MH & RH:	_____	LOGGING:	_____
RIG SERVICE:	<u>.50</u>	CEMENT:	_____
SURVEY:	_____	WOC:	_____
PRESSURE TEST:	_____	RUN CSG:	_____
DRILL:	<u>.75</u>	DST:	_____
DRILL OUT:	_____	TRIP:	<u>26.75</u>
CIRCULATE:	_____	L.D.D.S.:	_____
NIPPLE UP BOP:	_____	REAM:	_____
FISH W/ MAGNET 2.0			

RAN _____ JTS OF _____ MM, _____ KG/M, _____ CASING.
 LANDED AT _____ MKB. TOTAL LENGTH _____ METERS.
 CEMENTED WITH _____
 PLUG DOWN AT _____ HRS. ON _____ WITH _____ M3 CEMENT RETURNS.

RAN IN W/ 8 INCH MAGNET. WORKED MAGNET. HOISTED MAGNET. RECOVERED JUNK. (LOOKED LIKE CUP) APPEARS TO BE BIT ONE. MADE SECOND MAGNET. RUN RECOVERED MORE PIECES OF STEEL
RAN IN W/ BIT TALKED TO DALL. STILL MORE IRON. HOISTED BIT.
RAN MAGNET. MORE PIECES OF STEEL.
RAN MAGNET AGAIN.
HAVE ICE CREAM PAIL FULL OF PIECES RANGING FROM 1/2 OF CONC SIZE TO PEA SIZE.
HAVE INTERMEDIATE SPALL + DOUBLE STUDDED ADAPTER HERE & NIPPLE UP CROW.

DRILLING REPORT DAY 1

Geological Morning Report

Jan 20, 1999

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date:** Re-entry
Surface Location: 60° 30' 123° 00' **Days from Entry:**
Target Location: O-15

Date: Jan 20, 1999 **Depth:** in casing 1113m
Time: 06:00 hrs **Progress:** m
Hours Drilling: **Average ROP:** m / hr

Formation: In casing

Operational Status: Tripping

Operational Summary: Trip magnet, Run in with bit, Trip magnet, Trip magnet, Trip magnet.

Remarks: Recovered a lot of metal, one piece appears to be part of a cone from an 8 1/2" bit. I found a 5/8" nut. Somebody dumped a pail of assorted junk in the hole between the cement plug and the bridge plug. This could take a while.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 300 015 6030 123000LOCATION: PARAMOUNT ARROWHEAD 0-15WELL LICENCE WID 1854SUPERVISOR: G. SANDERSDAILY COST: 45622CELLULAR #: 1-606 700 5443CUM. COST: 361344SPUD DATE: 99-01-17

DAILY MUD: _____

R.R. DATE: _____

CUM MUD: _____

CONTRACTOR: PRECISION 507A.F.E. #: 17179 EST. T.D. 3085TEMP -13.DAY: 2 REP DATE: 99-01-19 STATUS 08:00 R.I.H. W/ MAGNET.DEPTH: 1113 PROG. 113m KB: 6.20 GL: 380.5 MACP: _____

SURVEYS: _____

MUD TYPE: INVERT WT: 940 VISC: 60 WL: _____ FC: _____ PH: _____

ADDITIVES: _____

RIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1:	A44DX	215.9	HC	GTF.G3	3-14	1114	713	13.75	811	3-6	40/60

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
DILWEH	600PT	152	203	100	105-2	6050	78	46	
D.L. WELL	600PT	140	203						

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
MAGNET			.68
BIT SUB.			1.66
15 DC	171		142.11
1 X	163		.58
6 HWDP			54.98
KELLY			
TOTAL			

TIME DISTRIBUTION

MOVE/RIG-UP	RIG REP: .50
DRILL MH & RH:	LOGGING:
RIG SERVICE: .50	CEMENT:
SURVEY:	WOC:
PRESSURE TEST:	RUN CSG:
DRILL:	DST:
DRILL OUT: 13.75	TRIP: 8.00
CIRCULATE: .50	L.D.D.S.:
NIPPLE UP BOP:	REAM:
	W.O.O. .75

CASING SUMMARY

RAN	JTS OF	MM,	TOTAL HOURS: 24	KG/M,	CASING.
LANDED AT	MKB.	TOTAL LENGTH	METERS.		
CEMENTED WITH					
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.		

DRILLED OUT BRIDGE PLUG @ 906m.
 RAN IN TO TOP OF CEMENT PLUG @ 1054m
 DRILL OUT CEMENT TO 1099m POOR CEMENT. DRILLED OUT CEMENT TO
 1111m FAIR CEMENT - BIT STARTED TORQUING & QUIT DRILLING.
 Pulled out of hole. BIT LOCKED UP. CENTER TEETH BROKEN OFF. FOUND
 CHUNK OF IRON IN BIT. R.I.H. HOLE OF NEW BIT. IRON ON BIT. P.O.S.H
 PHONE DAVE WILSON. AND MET HIM AT HIGHWAY TO GET MAGNET 206mm. +
 R.I.H. W/ MAGNET. + 6600 HRS

DRILLING REPORT DAY 1

Geological Morning Report**Jan 19, 1999**

Report To: Paul Collens
Report from: Colin Bredin
1-250-774-0521
Satellite Phone: 1-600-700-5443
Satellite Fax: 1-403-543-9147

Well Name: Paramount Berkley Arrowhead O-15 **Spud Date: Re-entry**
Surface Location: 60° 30' 123° 00' **Days from Entry:**
Target Location: O-15

Date: Jan 19, 1999 **Depth: in casing 1113m**
Time: 06:00 hrs **Progress: m**
Hours Drilling: **Average ROP: m / hr**

Formation:

Operational Status: Tripping

Operational Summary: Drill out bridge plug and cement, Trip for magnet

Remarks: Bridge plug at 906m. Cement at 1004. Foreign object in cement at 1100m. Hoisted at 1113m, metal stuck in bit. Run in with magnet.

Paramount Resources Ltd.
3000156030123000

Paramount Berkley Arrowhead O-15
60° 30' 123° 00'

PARAMOUNT RESOURCES LTD.					
RIG SAFETY CHECK					
WELL NAME:		PARA E.H. ARROWHEAD		DATE:	99-01-18
LOCATION:		O-15			
CONTRACTOR:					
PERSONNEL	BOP	EXPIRES	H2S	FIRST AID	OTHER
Supervisor	2ND	OCT 2000	OCT 99	ACT 99	
Rig Manager	2ND	MAY 99	SEP 2001	SEP 2001	
Driller: TIM LANE	1ST	NOV 2000	NOV 99	DEC 65 2000	
Driller: JASON MANUEL	2ND	OCT 99	65 99	APRIL 99	
Driller: JASON MANUEL	1ST	JAN 2000	NOV 2000	DEC 99	
CODES: Y= YES N= NO G= GOOD NA= NOT ACCEPTABLE NR= NOT REQUIRED					
MISCELLANEOUS:			MANIFOLD SHACK		
Boiler per ERCB instructions			YES		
Light plant operational			YES		
Sockets/ wires/conn/ condition			GOOD		
Mud lines secure			YES		
Motor shut offs functional			YES		
Pipe racks level			YES		
Pipe racked properly			YES		
Rig floor area neat			YES		
Air horn functional			YES		
Escape line anchored correct			YES		
All lines flagged			YES		
Escape line area clear			YES		
Escape buggy installed			YES		
Floors/stairs/handrills correct			YES		
All safety equipment functional			YES		
Personal safety equip. used			YES		
MACP posted			YES		
STICK DIAGRAM			YES		
ACCUMULATORS					
Cond of cylinders			GOOD		
Fittings and lines installed			YES		
Controls identified			YES		
Functional			YES		
			MANIFOLD SHACK		
			Proper gauges		
			YES		
			Properly heated		
			YES		
			Lines staked prop.		
			YES		
			M.A.C.P.		
			YES		
			NOT OBSTRUCTED		
			NO		
			SITE INSPECTION		
			Rig signs up		
			YES		
			H2S signs up		
			YES		
			Flare pit correct		
			YES		
			Flare lines straight		
			YES		
			Flare lines correct		
			YES		
			Ditches		
			N/A		
			Doghouse neat		
			YES		
			First Aid kit		
			YES		
			FLARE STACK		
			N/A		
			FIRE TRUCK		
			N/A		
			BOP		
			All bolts installed		
			YES		
			Function test daily		
			YES		
			Properly installed		
			YES		
			UNDERBALANCED:		
			N/A		
			BLEED OFF SPOOL		
			N/A		
			TIE IN RIGMANIFOLD		
			YES		
ACCIDENTS:		LOST TIME:		NON LOST TIME:	
OCCURENCE:					
COMMENTS:					
RIG MANAGER:		O.KRUTZER		OPERATOR REP:	

SAFETY

You must fill in the appropriate blanks below, this will send the information throughout the entire summary. After filling in these blanks, you must:

Fill in the rentals in "RENTALS" and;

The Mud Inventory in "Mud 1". You will have to change the costs in the "Mud Cost 1" sheet to reflect your current costs. You do not have to put it in the other mud sheets.

To fill in the text boxes (remarks) just put the cursor in the box and click your mouse and start typing. It has word wrap so you need not worry on how much you type. You can put the tabs in any order you want by moving them with your mouse (click and drag). If you need another pressure gradient for you MACP you must change it here.

WELL NAME: ADA-541 ARROW HEAD
 LOCATION: B-15
 UNIQUE I.D.: 300-154030-12302
 LICENSE #: WID 1230
 SUPERVISOR: C. SANDERS
 Shack Phone: 600 700 6402
 2nd Phone: 600-774 4553
 SPUD DATE: 12/18/98
 CONTRACTOR: PRECISION 587
 AFE #: 17178
 EST TO: 30.85 m
 KB TO GRD: 5.80 m
 GRD ELEV: 320.5 m

PUMP MODEL: PT-600
 PUMP MANF: GREINER
 PUMP LINER: 1.50
 PUMP STROKE: 2.50
 PUMP OUTPUT: 1000 L/S
 PUMP2 MANF: GREINER
 PUMP2 MODEL: PT-600
 PUMP2 LINER: 1.50
 PUMP2 STROKE: 2.50
 PUMP2 OUTPUT: 950 L/S
 MACP GRADIENT: 19.5

FORM DIRECTIONS



PRECISION DRILLING CORPORATION

WEEKLY E.R.C.B. REGULATION INSPECTION

 RIG 507 OPERATOR PARAMOUNT DATE 99 01 17
 YR. MO. DAY

 LOCATION 0-15 LAT 60° 24' LONG 123° 02'
 LSD. SEC. TWP. RGE. W. DEPTH 900

 ACCUMULATOR PRECHARGE 7500 kPa N₂ BOTTLES 1 15500 kPa

 HANDWHEELS AVAILABLE ☒ 2 FOR OPERATOR
 2 FOR SHAFER

INSPECTION RESULTS

 CODE: Significant - 'Y', Deficient - 'N'
 Both - 'Y', satisfactory - 'X'
TIED TO ADDUMULATOR? 3 17000

YES NO

☒ 90. RIG APPEARS SATISFACTORY?

YES NO

☒ 100. NON RIG RELATED ITEMS APPEAR SATISFACTORY?

BOP SYSTEM

- | | |
|-------------------------------------|--|
| ☒ | 91. CASING BOWL MANUFACTURING DATA MUST BE AVAILABLE ON REQUEST |
| ☒ | 92. BOP TYPE, RANK SIZE & PRESSURE RATING SAT. Y |
| ☒ | 93. BLEED OFF & KILL LINES APPEAR SATISFACTORY |
| ☒ | 94. FLARE LINES PROPERLY SECURED - UNION TIGHT |
| ☒ | 95. VISUAL INSPECTIONS RECORDED ON TOUR SHEET |
| ☒ | 96. NON-STEEL HYDRAULIC LINES FIRE SHEATHED |
| ☒ | 97. DRILL STRING VALVES AND GROSSOVER BURS READILY ACCESSIBLE |
| ☒ | 98. STABBING VALVE KEPT IN OPEN POSITION WHEN ACCESSIBLE |
| ☒ | 99. EQUIPMENT ADEQUATELY HEATED |
| ☒ | 100. BOP EQUIP. WORKABLE & PROPERLY CONNECTED |
| ☒ | 101. HANDLES IN PLACE ON ALL B.O.P. VALVES |
| ☒ | 102. WELL CONTROL PROCEDURES IF ROTATING HEAD IS IN PLACE |
| ☒ | 103. DRILL STRING PRESSURE AVAILABLE AT CHOKE CONTROL |
| ☒ | 104. MUD-GAS SEPARATOR ADEQUATELY CONNECTED |
| ☒ | 105. VISUAL INSPECTIONS OF DEGASSER RECORDED ON TOUR SHEET AS REQUIRED BY REGULATION |
| ☒ | 106. REGO CASING WEAR TESTS BEING PERFORMED |

- | | | | |
|-------------------------------------|---------------|---|-------------------|
| ☒ | 107. WELL TO: | END OF FLARE LINE | 30m? |
| ☒ | 108. | MURDISH BURN PILE | IN LINE WITH 30m? |
| ☒ | 109. | CRUDE OIL STORAGE TANK | 30m? |
| ☒ | 110. | ACCUMULATOR SYSTEM | 15m? |
| ☒ | 111. | CONDENSATE PILES BEING OBSERVED? | |
| ☒ | 112. | FLUIDS PROPERLY CONTAINED? | |
| ☒ | 113. | LICENSE POSTED? NUMBER: | <u>W11011834</u> |
| ☒ | 114. | ACQUIRED DEVIATION SURVEYS RUN? | |
| ☒ | 115. | DAILY WALK AROUND INSPECTIONS RECORDED ON TOUR SHEET? | |

☐ 116. SPECIAL WELL?

MUD TANK MONITORING & TRAPPING REQUIREMENTS

- | | |
|-------------------------------------|---|
| ☒ | 117. FVT SYSTEM IS ACTIVATED AND OPERABLE |
| ☒ | 118. MECHANICAL PIT LEVEL INDICATORS OPERATIONAL |
| ☒ | 119. DRILLER MUST BE AWARE OF MUD TANK LEVEL AT ALL TIMES |
| ☒ | 120. MANDATORY FLOW CHECKS DOCUMENTED ON TOUR SHEET |

TRAINING & PROCEDURES

- | | |
|-------------------------------------|--|
| ☒ | 121. DRILLER HAS CURRENT P.I.T.S. FIRST LINE CERTIFICATE |
| ☒ | 122. CREW BOP TRAINING APPEARS SATISFACTORY |
| ☒ | 123. MUD VOL. MEAS. & MUD FILL PROCEDURES SAT. Y |
| ☒ | 124. PERSON READY AVAILABLE WITH P.I.T.S. SECOND LINE CERTIFICATE |
| ☒ | 125. DRILLS (INCLUDING ALL RESPONSES) CONDUCTED AND RECORDED |
| ☒ | 126. CREWS MUST BE TRAINED TO DETECT CHANGES IN THE MUD-TANK LEVEL |

SPACING RECORDS & OTHER

- | | | |
|-------------------------------------|---|------|
| ☒ | 127. WELL TO FLARE TYPE EQUIPMENT | 25m? |
| ☒ | 128. SMOKE RULES BEING OBSERVED | 25m? |
| ☒ | 129. O.S.T. EQUIPMENT SATISFACTORY | |
| ☒ | 130. WARNING SIGNS POSTED IN ALL AREAS | |
| ☒ | 131. BOP PRESSURE TESTS RECORDED & TEST PROCEDURES SATISFACTORY | |
| ☒ | 132. DAILY MECHANICAL TESTS RECORDED | |
| ☒ | 133. WEEKLY DIESEL ENGINE TESTS RECORDED | |
| ☒ | 134. STICK DIAGRAM POSTED IN DORHOUSE | |
| ☒ | 135. ENVIRONMENTAL WASTE DISPOSAL GUIDELINES AT LOCATION | |

ENGINES

- | | |
|-------------------------------------|--|
| ☒ | 136. DIESEL ENGINE SHUT-OFFS STOP ALL ENGINES |
| ☒ | 137. NO VEHICLES WITHIN 25m OF WELL UNLESS EQUIPPED WITH SHUTOFF |
| ☒ | 138. ENGINE OPERATING SATISFACTORY |

INSPECTED BY RIG MANAGER AND NOTED IN TOUR BOOK

FIELD SUPERINTENDENT'S SIGNATURE

700, 112-4th Ave. S.W.,
Calgary, AB T2P 0K3

Green Circle - Office

Pink Circle - Contractor

White Circle - Rig

JAN-19-1999 08:21

403 266 6032

94%

P.10

RIG MANAGER'S SIGNATURE

 REMEDIAL ACTION REQUIRED
- Accum CHECK
START 21000
CLOSE HYDRA 2 PIPE RAMS OPEN HEE
REMAINING PRESS 12,000 Kpa
TIME TO RECHARGE 20min 11sec

PARAMOUNT RESOURCES LTD.

DAILY DRILL REPORT

UNIQUE I.D. 300015603012300LOCATION: _____
WELL LICENCE _____SUPERVISOR: G. SANDELS
CELLULAR #: 1-600-706-5443
SPUD DATE: 99-01-17
R.R. DATE: _____
CONTRACTOR: PRECISION 507
A.F.E. #: 17178 EST. T.D. 3085DAILY COST: 30886
CUM. COST: 315722
DAILY MUD: _____
CUM MUD: _____

TEMP _____

DAY: 1 REP DATE: 99-01-17 STATUS 08:00 REPAIR DINKS
DEPTH: _____ PROG. _____ GL: _____ MACP: _____
SURVEYS: _____MUD TYPE: INVERT WT: _____ VISC: _____ WL: _____ FC: _____ PH: _____
ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	RUN	HRS	TBG	WEIGHT	RPM
1	A440X	215.9	HC	GT2-G3	3-1/4					

PUMP	DESCR.	LINER	STK	SPR	PRESS	AV DC	AV DP	NOZZEL VEL
OILWELL	P7600	152	203					
OILWELL	P7600	140	203					

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT	215.9		2.35
B/S	173		1.90
1B DC	171		132.50
6 HWOP	163		54.00
XO SUB	163		.35
KELLY			
TOTAL			191.10

CASING SUMMARY

RAN _____ JTS OF _____ MM,
 LANDED AT _____ MKB. TOTAL LENGTH _____
 CEMENTED WITH _____
 PLUG DOWN AT _____ HRS. ON _____

TIME DISTRIBUTION

MOVE/RIG-UP _____ RIG REP: 2.25
 DRILL MH & RH: _____ LOGGING: _____
 RIG SERVICE: .50 CEMENT: _____
 SURVEY: _____ WOC: _____
 PRESSURE TEST: 10 RUN CSG: _____
 DRILL: _____ DST: _____
 DRILL OUT: _____ TRIP: _____
 CIRCULATE: _____ L.D.S.: _____
 NIPPLE UP BOP: _____ REAM: _____
 Pick up DC 10P 7 Disolve 2.50
 Rly on P. & S. 1.50 Safety .25
 TOTAL HOURS: 27
 KG/M, _____ CASING.
 METERS. _____

M3 CEMENT RETURNS.

PRESSURE TESTED LOWER PIPE RAMP KILL LINES: WOULDNT HOLD PRESSURE. FOUND CEMENT IN CHECK VALVE. RENIPPLE KILL LINES. PRESSURE TESTED TOP & Btm PIPE RAMP 1200 PSI 1000KPa HIGH 10 MIN OK. PRESSURE TESTED ALL LINES & MANIFOLD VALVES TO 1200 PSI 1000 KPa HIGH 10 MIN OK. PRESSURE TESTED ANNULAR TO 1200 PSI 1000 KPa HIGH 10 MIN OK. CHECKED MOTOR KILLS OK. CHECKED ANNULAR 22000 KPa 5 MIN. PRESSURE LIFT AFTER FUNCTIONS 15 MIN. RECHARGED IN 2 AM H 500. PICKED UP 15 DC 6 HWOP & DROPPED TO 906 m. DISPLACED CUTTER 'O' TO INVERT. REPAIRING WATER LINE TO GRAVE DITCH.

DRILLING REPORT DAY 1



INLAND
Pressure Testers Inc.
 Box 6067, Fort St. John, B.C. V1J 1A1
 (604) 785-5563

ACCUMULATOR FUNCTION AND PRESSURE TEST

Date Jan 17/99

Location LAT-60-24-LONG-23-00

Operating Company PARAMOUNT RESOURCES

Tests were made by JOAN HANDLER

1. Pressure on accumulator with pressure pump switch in off position. 200 kPa.
2. Close annular. Pressure loss. 0 kPa.
Time to close 0 sec.
3. Close pipe rams. Pressure loss. 200 kPa.
Time to close. 0 sec.
4. Open pipe rams. Pressure loss. 0 kPa.
Time to open. 0 sec.
5. Open HCR valve. Pressure loss. 0 kPa.
Time to close. 0 sec.
6. Total Pressure Loss. 0 kPa.
7. Pressure left on accumulator at end of test. 200 kPa.
8. Turn on accumulator pump time required to build up pressure 0 Min.
0 sec.
9. Precharge Pressure 200 kPa.
10. Fluid Level

Remarks:

Geological Morning Report**Jan 18, 1999****Report To: Paul Collens****Report from: Colin Bredin****1-250-774-0521****Satellite Phone: 1-800-708-5443****Satellite Fax: 1-403-543-9047****Well Name: Paramount Berkley Arrowhead O-15 Spud Date: Re-entry**
Surface Location: 60° 30' 123° 00' Days from Entry:
Target Location: O-15**Date: Jan 18, 1999****Time: 06:00 hrs****Hours Drilling: 0.0****Depth: in casing****Progress: 0.0m****Average ROP: 0.0m / hr****Formation:****Operational Status: Rig Repair****Operational Summary: Rig up and pressure test, Run in hole, Repair rig.****Remarks: Should be drilling at bridge plug this morning. Won't see
new dirt until late tomorrow or wednesday at best.****Paramount Resources Ltd.
3000156030123000****Paramount Berkley Arrowhead O-15
60° 30' 123° 00'**

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 306015603012300

SUPERVISOR: G. SANDERS
 CELLULAR #: 16007005443
 SPUD DATE: _____
 R.R. DATE: _____
 CONTRACTOR: PRECISION 567
 A.F.E. #: 17178 EST. T.D. 3088

LOCATION: PARA 6TH ARROWHEAD C-75
 WELL LICENCE WS101834

DAILY COST: 23350
 CUM. COST: 284836
 DAILY MUD: _____
 CUM MUD: _____

DAY: 1 REP DATE: 9/20/12 STATUS 08:00 PRESSURE TESTING
 DEPTH: _____ PROG. _____ KE: _____ GL: _____ MACP: _____
 SURVEYS: _____

MUD TYPE: _____ WT: _____ VISC: _____ WL: _____ FC: _____ PH: _____
 ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	TIME	RUN	HRS	TBG	WEIGHT	RPM
1A											

PUMP	DESCR.	LINER	STK	SPM	TIME	PRESS	AV DC	AV DP	NOZZEL VEL

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
B/S			
228MM DC			
X/O			
X/O			
6DC			
KELLY			
TOTAL			

CASING SUMMARY

RAN _____ JTS OF _____ MM,
 LANDED AT _____ MKB. TOTAL LENGTH _____
 CEMENTED WITH _____
 PLUG DOWN AT _____ HRS. ON _____

TIME DISTRIBUTION

MOVE/RIG-UP: _____ RIG REP: _____
 DRILL MH & RH: _____ LOGGING: _____
 RIG SERVICE: _____ CEMENT: _____
 SURVEY: _____ WOC: _____
 PRESSURE TEST: _____ RUN CSG: _____
 DRILL: _____ DST: _____
 DRILL OUT: _____ TRIP: _____
 CIRCULATE: _____ L.D.D.S.: _____
 NIPPLE UP BOP: _____ REAM: _____

TOTAL HOURS:

KG/M, _____ CASING.
 METERS. _____

M3 CEMENT RETURNS.

REBUILD BLEED OFF LINES & FLOW NIGHTS MADE UP B.O.P. SAME PROBLEM AS
 LAST WELL. PRESSURE TESTED MAINLINE & CEMENT LINES 1400 - 2100kpa
 PRESSURE TEST BOTTOM PIPE RAN 1400kpa & 2100kpa high 10 min at.
 Had some cement in 8th kill line & cement was too thick to pull lines off on
 kill line stop.

DRILLING REPORT DAY 1

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 20001564361236L

SUPERVISOR: G. SANDERS
 CELLULAR #: L-600-760 5443
 SPUD DATE: _____
 R.R. DATE: _____
 CONTRACTOR: PRECISION 507
 A.F.E. #: 1217R EST. T.D. 5075

LOCATION: PARA ETAL ARROWHEAD-15
 WELL LICENCE WID 1834

DAILY COST: 22450
 CUM. COST: 261446
 DAILY MUD: _____
 CUM MUD: _____

TEMP -8

DAY: 1 REP DATE: _____ STATUS 08:00 NIPPLE UP B.O.P.
 DEPTH: _____ PROG. _____ GL: _____ MACP: _____
 SURVEYS: _____

MUD TYPE: _____ WT: _____ VISC: _____ WL: _____ FC: _____ PH: _____
 ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	BIT	RUN	HRS	TBG	WEIGHT	RPM
1A											

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
B/S			
228MM DC			
X/O			
X/O			
6DC			
KELLY			
TOTAL			

TIME DISTRIBUTION

MOVE/RIG-UP	RIG REP:
DRILL MH & RH:	LOGGING:
RIG SERVICE:	CEMENT:
SURVEY:	WOC:
PRESSURE TEST:	RUN CSG:
DRILL:	DST:
DRILL OUT:	TRIP:
CIRCULATE:	L.O.D.S.:
NIPPLE UP BOP:	REAM:

CASING SUMMARY

RAN _____ JTS OF _____ MM,
 LANDED AT _____ MKB. TOTAL LENGTH _____
 CEMENTED WITH _____
 PLUG DOWN AT _____ HRS. ON _____

TOTAL HOURS: _____
 KG/M, _____
 METERS. _____ CASING.

M3 CEMENT RETURNS.

Rigged up Floor - Put up PREFABS. RIGGED IN CENTREFUGES..
 DUG FLARE PIT - Sumps for well site. PITS for blow down & SHAKER..
 LASSES. STARTED NIPPLE UP B.O.P. @ 10:00 HRS. HAD DC ENERGY INTO
 MANIFOLD TANK FARM & CHECK FARM..
 CONTACTED Rod & Geo Comm. They have motors & mud tools &
 PERSONNEL. They don't stock pipe tools & PERSONNEL & FT NELSON..
 HAVE TO CHANGE 2 LINES ON MANIFOLD LINES..

DRILLING REPORT DAY 1

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

LOCATION: PARA ETAL ARROWHEAD 8-15
WELL LICENCE W10 1834UNIQUE I.D. 36001568361236LSUPERVISOR: C. SANDERS
CELLULAR #: 1-608 700 5443
SPUD DATE: _____
R.R. DATE: _____
CONTRACTOR: PRECISION 507
A.F.E. #: 17178 EST. T.O. 3085DAILY COST: 164045
CUM. COST: 228956
DAILY MUD: _____
CUM MUD: _____DAY: 1 REP DATE: _____ STATUS 08:00 RIGGING UP
DEPTH: _____ PROG. _____ KB: _____ GL: _____ MACP: _____
SURVEYS: _____MUD TYPE: _____ WT: _____ VISC: _____ WL: _____ FC: _____ PH: _____
ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1A											

PUMP	DESCR	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
B/S			
228MM DC			
X/O			
X/O			
6DC			
KELLY			
TOTAL			

TIME DISTRIBUTION

MOVE/RIG-UP	RIG REP:
DRILL MH & RH:	LOGGING:
RIG SERVICE:	CEMENT:
SURVEY:	WOC:
PRESSURE TEST:	RUN CSG:
DRILL:	DST:
DRILL OUT:	TRIP:
CIRCULATE:	L.D.D.S.:
NIPPLE UP BOP:	REAM:

CASING SUMMARY

RAN	JTS OF	MM,	KG/M,	CASING.
LANDED AT	MKB.	TOTAL LENGTH	METERS.	
CEMENTED WITH				
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.	

FINNISHED Rig up w/ trucks. DERRICK RAISED BY 1600 HRS.
Rigging up two tanks, floor, etc.

COYOTE SERVICE MAN BRUISED LEFT HAND WHILE RIGGING IN CENTRIFUGES AND
WENT INTO MEDIC. CLINIC. REPORT TO Fellow. Continued Coyote Rep in Nisku
AND WAS INFORMED HE WOULD BE BACK 99.01.15 AM. TO CONTINUE RIGGING IN
CENTRIFUGES.

WELL HEAD Diagram to Follow

DRILLING REPORT DAY 1

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. 300913603012302LOCATION: PARA GRAFARALHEAD 0-16
WELL LICENCE WID 1834SUPERVISOR: G. SANDERSDAILY COST: 47730CELLULAR #: 1-660 700 5443CUM. COST: 47730

SPUD DATE: _____

DAILY MUD: _____

R.R. DATE: _____

CUM MUD: _____

CONTRACTOR: PRECISION 507A.F.E. #: 17178 EST. T.D. 3685Temp -11DAY: 1 REP DATE: _____ STATUS 08:00 RIGGING UP Rig.

DEPTH: _____ PROG. _____ KB: _____ GL: _____ MACP: _____

SURVEYS: _____

MUD TYPE: _____ WT: _____ VISC: _____ WL: _____ FC: _____ PH: _____

ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1A											

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
B/S			
220MM DC			
X/O			
X/O			
SDC			
KELLY			
TOTAL			

TIME DISTRIBUTION

MOVE/RIG-UP	<u>24</u>	RIG REP:	
DRILL MH & RH:		LOGGING:	
RIG SERVICE:		CEMENT:	
SURVEY:		WOC:	
PRESSURE TEST:		RUN CSG:	
DRILL:		DST:	
DRILL OUT:		TRIP:	
CIRCULATE:		L.D.D.S.:	
NIPPLE UP BOP:		REAM:	

CASING SUMMARY

RAN	JTS OF	MM.	TOTAL HOURS:	<u>24</u>	CASING.
LANDED AT	MKB.	TOTAL LENGTH	KG/M.		
CEMENTED WITH			METERS.		
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.		

HAULED IN BALANCE OF Rig EQUIPMENT. ALL Key COMPONENTS ON LEASE
Laid MATTING. PUT SOB TOGETHER & LEUELLED. SPOTTED MUD TANKS
PUT DERRICK TOGETHER. READY TO PICK UP DISKS AND DERRICK IN MORNING.
HAVE ALL WEIGHT MATERIAL & MUD PRODUCTS ON LEASE.
BEAVER CHANGED BY COOK.
ENTEST EQUIPMENT & ALPINE ON LOCATION.
89m Drill string on LEASE.

DRILLING REPORT DAY 1

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

UNIQUE I.D. _____

LOCATION: PARA FISH ARROWS HRS 0-15
WELL LICENCE: WIDSUPERVISOR: G SANDERSCELLULAR #: 1-600 706 5443

SPUD DATE: _____

R.R. DATE: _____

CONTRACTOR: PRECISION DRILLINGA.F.E. #: 17178

EST. T.D. _____

DAILY COST: _____

CUM. COST: _____

DAILY MUD: _____

CUM MUD: _____

DAY: 1

REP DATE: _____

STATUS 08:00

DEPTH: _____

PROG. _____

KB: _____

GL: _____

MACP: _____

SURVEYS: _____

MUD TYPE: _____

WT: _____

VISC: _____

WL: _____

FC: _____

PH: _____

ADDITIVES: _____

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1A											

PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
B/S			
228MM DC			
X/O			
X/O			
6DC			
KELLY			
TOTAL			

TIME DISTRIBUTION

MOVE/RIG-UP	<u>24</u>	RIG REP:	
DRILL MH & RH:		LOGGING:	
RIG SERVICE:		CEMENT:	
SURVEY:		WOC:	
PRESSURE TEST:		RUN CSG:	
DRILL:		DST:	
DRILL OUT:		TRIP:	
CIRCULATE:		L.D.D.S.:	
NIPPLE UP BOP:		REAM:	

CASING SUMMARY

RAN	JTS OF	MM,	KG/M.	CASING.
LANDED AT	MKB.	TOTAL LENGTH	METERS.	
CEMENTED WITH				
PLUG DOWN AT	HRS. ON	WITH	M3 CEMENT RETURNS.	

TORE OUT & MOVED Camp TO 0-15 Campsite & Rig up same
 TORE OUT Rig & MOVING TO 0-15.
 HAVE 14 TRAILOR TRAILER - 2 BROS 1/2 TRUCK ON MOUV
 MOUV IS GOING WELL.
 BEAVER CHANGED OUT KITCHEN STAFF. NEW COOK HAS NEVER COOKED
 ON Rig Camp - WANTS RELIEF ALREADY.

DRILLING REPORT DAY 1