

**FINAL WELL REPORT
PARAMOUNT ET AL BOVIE**

C-76A

600 20' 1220 45'

1998/1999

N.E.B. COPY



Paramount Resources Ltd.

FINAL WELL REPORT

PARAMOUNT ET AL BOVIE C-76A

60° 20' 122° 45'

Latitude 60° 15' 14.936" Longitude 122° 59' 21.958"

NOTE: The original vertical well was drilled in 1996/97 season. This report covers the whipstock drilled in 1998/99 season, from the original wellbore.

**MICROFILMED
SUR MICROFILM:**

Prepared By:
Date:

S. Maaskant, C.E.T.
April 30, 1999

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1. INTRODUCTION

Summary

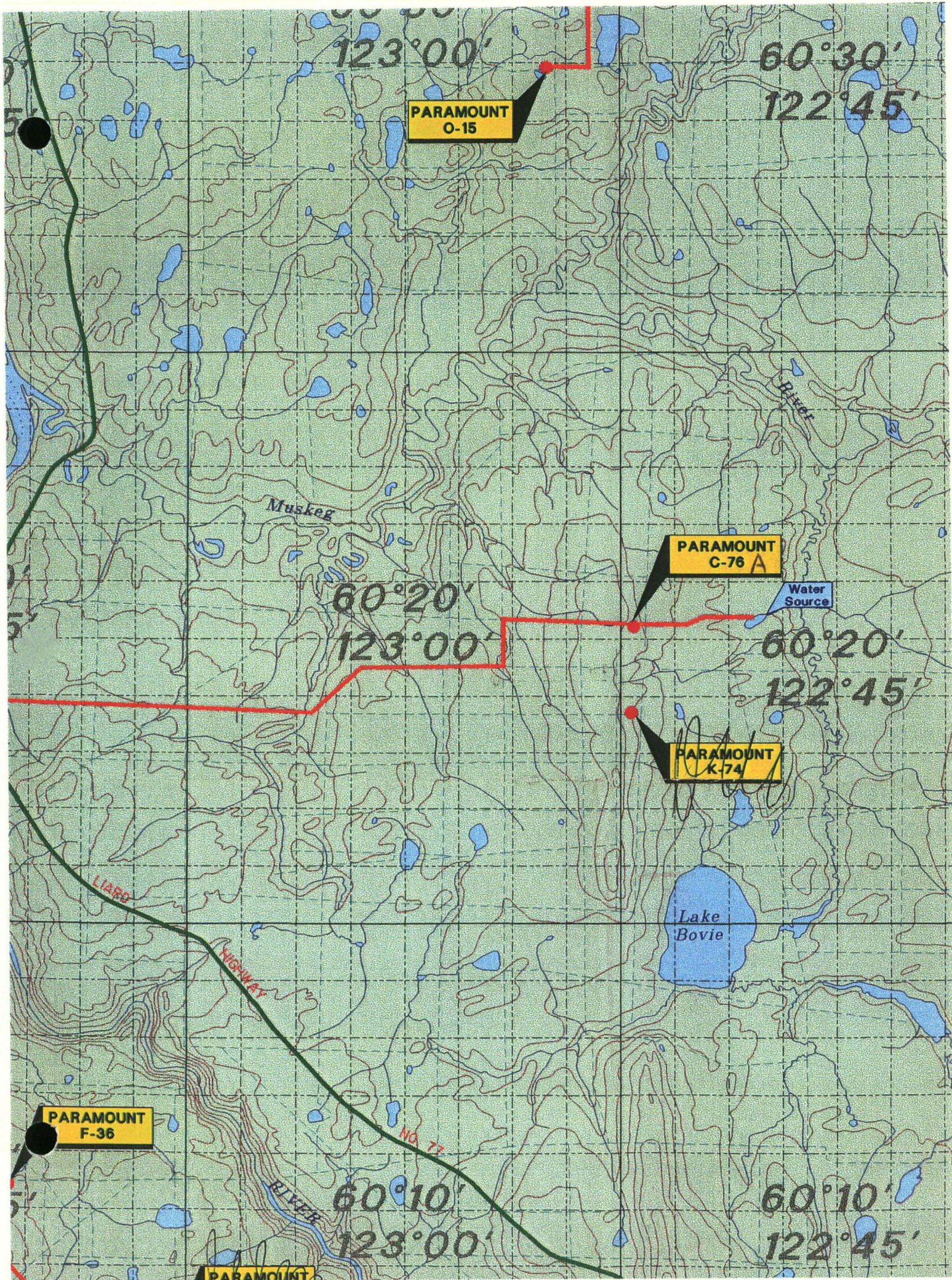
The vertical wellbore was drilled in early 1997 with the completion commencing the following season 1997/98. After evaluating the Nahanni on the vertical well and abandoning that section of the wellbore, a whipstock was started. Due to spring break-up, operations stopped once the window had been milled. The whipstock proceeded as planned this season (1998/99).

A 152 mm hole was drilled exiting the 177 mm casing at the top of the Fort Simpson zone. Calcium chloride invert was used to drill the entire leg with a closed system tied in once the Nahanni section was reached. This was to facilitate nitrifying the invert and drilling slightly underbalanced to evaluate formation gas flow. Unfortunately the equipment on location was not operating properly and drilling proceeded overbalanced. No hole problems were encountered and the well reached total depth of 3464 m MD. Logs were not run. Liner was hung and cemented in place over the Fort Simpson shale.

Coil tubing was used to conduct an acid and xylene wash. Recorders were run followed by another acid wash.

The well is presently suspended with a packer in the 177 mm casing complete with a plug in place.

Location Map (Following Page)



123°00'

60°30'

122°45'

PARAMOUNT
O-15

Muskeg

60°20'

123°00'

PARAMOUNT
C-76 A

Water
Source

60°20'

122°45'

PARAMOUNT
K-74

Lake
Bovie

LIARD

HIGHWAY

NA 77

PARAMOUNT
F-36

60°10'

123°00'

60°10'

122°45'

PARAMOUNT

2. GENERAL DATA

WELL NAME: Paramount et al Bovie C-76A

EXPLORATION AGREEMENT: EL 368

DRILLING AUTHORITY: 1817 Issued January 7, 1997

GRID AREA: 60° 20' 122° 45'

CO-ORDINATES: Latitude 60° 15' 14.936"
Longitude 122° 59' 21.958"

UNIQUE WELL IDENTIFIER: 300C7660201224504

LESSOR: Paramount Resources Ltd.

OPERATOR: Paramount Resources Ltd.
4000, 350 – 7 Ave. S.W.
Calgary, Alberta
T2P 3W5

DRILLING CONTRACTOR: Precision Drilling Limited
1000, 112 - 4 Ave. S.W.
Calgary, Alberta

DRILLING RIG: Precision 507

POSITION KEEPING: N/A

SUPPORT CRAFT: N/A

DRILLING UNIT PERFORMANCE N/A

DIFFICULTIES & DELAYS: N/A

3. SUMMARY OF DRILLING OPERATIONS

ELEVATIONS: G.L.: 426.8 m
K.B.: 433.1 m

TOTAL DEPTH: Drilled: 3077.39 m TVD
3464 m MD
Logged: N/A
Plug Back: Tbg Plug @ 2529 m CF

RESUME DRILLING DATE: December 15, 1998 (for whipstock)

COMPLETED DRILLING DATE: January 8, 1999

RIG RELEASE: January 10, 1999 - 2400 hrs

WELL STATUS: Suspended

HOLE SIZES: Also See Attached Bit Record NOTE: This information is for the whipstock.

	HOLE SIZE mm	CSG SIZE mm	WT Kg/m	GRADE	LANDED M
Surface	444	339.7	81.1	K55, ST&C	453
Intermediate	311	244.5	69.9	L80, LT&C	1713
Main	216	177.8	43.2	L80, LT&C	Window cut at 2650 m KB
Liner	152	114	17.26	N80, LT&C	2902.13 m MD

CASING & CEMENTING: See Casing & Cementing Reports, and Wellhead diagram on following pages

SIDETRACKED HOLE: This report covers the whipstock drilled out of the vertical well Paramount et al Bovie C76 drilled in 1997. A section was milled in the 177.8 mm casing at 2650 m KB. The well was drilled to total depth at 3464 m MD (3077.39 m TVD) then liner hung over the build section.

DRILLING FLUID: See Attached Drilling Fluid Summary

Whipstock: Calcium Chloride Invert

FISHING: N/A

WELL KICKS: N/A
(Note: A short section was drilled with low weight invert in anticipation of receiving a kick and then diverting through a closed system.)

LEAK-OFF TESTS: N/A

TIME DISTRIBUTION: See Attached within this section

DEVIATION SURVEY: See Attached within this Section

ABANDONMENT PLUGS: Suspension Plug

Tubing plug set at 2529 m CF

COMPOSITE WELL RECORD: See attached in the pouch at the end of this section

BIT RECORD

PARAMOUNT RESOURCES LTD.

BIT RECORD

WELL NAME Paramount et al Bovie LOCATION C-76A
 Contractor Precision Rig No. 507 Field Fort Liard
 Spud Date Dec 15/99 T.D. Date Jan 8/99 Rig Release Date Jan 10/99

Bit No.	Size mm	Make & Type	Depth Out	Metres Drld.	Rotating Hours	Total Hours	Weight on Bit - daN	Bit RPM	Jets -- mm			Pump Pr. Pa or MPa	Pump Out m3/min	Dull Condition		
									1	2	3			T	B	G
1	152	QM	2656	137	11.00	11.00	6 - 8	80				5600	0.68	6	4	1
2	152	EHP53	2862	206	52.75	63.75	6 - 12	80	16	16	12	10200	0.66	1	4	1
3	152	ETD5376	3073	211	54.00	117.75	6 - 12	45/90	12	12	11	10000	0.66	5	8	0.2
4	152	F3	3131	58	22.50	140.25	6 - 12	40	12	12	9	11000	0.66	4	2	0
5	152	F3	3253	122	38.75	179.00	10	40	12	12	9	11000	0.66	3	2	1
6	152	ETD5376	3371	118	37.75	216.75	10 - 12	40/45	12	12	9	11000	0.66	1	6	0
7	152	EHP53	3464	93	25.50	242.25	10 - 12	40/90	12	12	9	12000	0.66	1	5	1

Remarks _____

CASING & CEMENTING REPORTS

CARDIUM TOOL SERVICES INC.

INSTALLATION REPORT

Oil Co. PARAMOUNT RESOURCES
 Well Name & No. PARA-ET-AL BOVIE
 Location 2-76-A
 Field BOVIE
 Province NWT.
 Contractor P.D. 507
 Tieback No. LTYE12722L
 Top Set Coupling HCN73011LT09
 Hanger No. HCNR73COOL
 Lndg. Clr. No. CTDC11400L
 Shoe No. CTDH11400L
 L.W. Plug No. 11WP11460
 P.D. Plug No. LDWP08900 5.64
 Hb. S/Tal - CHLR11400LST11
 HCP Xxc-710 - CACP11602L

Date JAN 5, 6, 7, 9, 10 1999

Remarks

Size Bottom Csg. 127.8mm
 Wt. Bottom Csg. 43.16 Kgm
 Window Blm. Csg. Depth 2650
 Size Liner 114.3mm
 Wt. Liner 17.26 Kgm.
 Liner Length W/Tools 366.12
 Liner Top 2536.01
 Casing Casing Casing 113.99
 Join of Liner 2902.13
 Total Depth 3464.00 m.
 Type of Mud INVERT.
 Mud Wt. 1070
 Viscosity 57
 Amount of Cement on Backwash 1600
 To WATER FROM LINER TOP
 up.

Note: Thread back shoe
 F/Collar Ball Catch ACP, S/Tal
 & 1 ST LINER.
 Press Test NowSCO
 to 21 MPa & open S/Tool
 w/ NowSCO

Trace of Cement
 to Surface on Circ
 of Mud to Water in
 Annulus.

25/50
 253.14 m

63 S/Tool

5.68 ACP

26 Ball Catch

38 Flowline

39 Flowline

2536.01

2539.65
 Cementing
 2541.65

Picked, Run 25-JTS

114.3mm X 17.26 Kgm LT+C L80
 LINER Casing, AS per

Installation Dress w/ 6 Bow
 Cent, 2 R/R, 3 Spiral
 Cent & 2 Stop Collars.

Fill P.P.E., Double
 Strap & Duff DP IN
 Hole. Circ. Condition Mud
 & Hole. 2 Hrs. Set Hanger
 Drop Ball Rig IN Cement
 Head & NowSCO.

Pump Ball w/ 9 Pump
 & Set ACP w/ 9 MPa & Open
 S/Tool w/ 19 MPa. Circ w/
 Rig Pump 1 Hrs.

Pump 3m³ Diesel
 & 3m³ Flush Follow w/
 4m³ 1500 Kgm Cement.

Displace w/ 11.58m³
 H₂O Plug Down & S/Tool
 Chased w/ 22 MPa 9.5 PM
 JAN 8-99 Rotate Free

2894.79 From Liner & Pull
 Free From Busting &

2895.42 Circ Annulus To
 WATER, HOIST

2900.08 Cement Bottom. Lay Down

2901.10 DP Recover

2901.36 Tools.

2901.74

2902.13

1-600-700-5443
 Engineer TERRY SANDERS

Cardium Operator R. WEBER
ST. LYNN

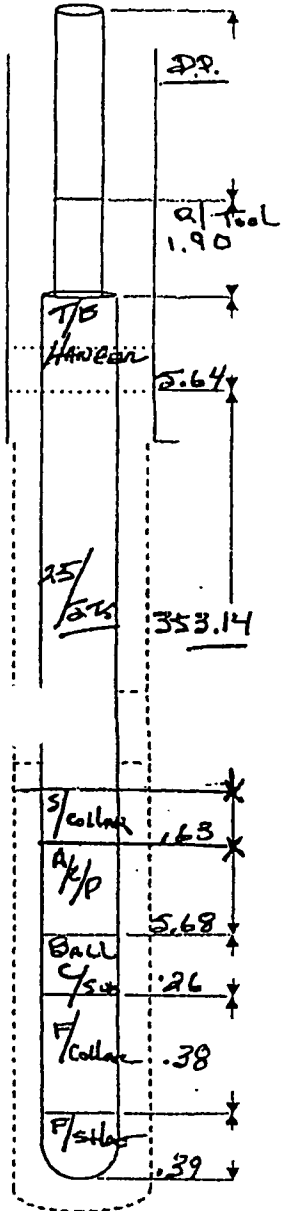
to 3464.00



TALLY SHEET

PARAMOUNT ET-AL BOIE

Customer: PARAMOUNT LSD: C-76-A Date: JAN 8/99



1	2891	m
2	2812	m
3	2797	m
4	2886	m
5	2875	m
6	2816	m
7	2885	m
8	2878	m
9	2833	m
10	2879	m
B	285.52	m

41	2871	m
42	2872	m
43	2825	m
44	2873	m
45	2742	m
46	2733	m
47	2860	m
48	2860	m
49	2883	m
50	2830	m
F	283.49	m

81	29.15	m
82	28.80	m
83	28.99	m
84	29.17	m
85	29.19	m
86	29.10	m
87	29.16	m
88	28.75	m
89	29.11	m
90		m
J	261.22	m

11	2795	m
12	2709	m
13	2837	m
14	2856	m
15	2851	m
16	2866	m
17	2836	m
18	2815	m
19	2810	m
20	2811	m
C	281.86	m

51	2830	m
52	2896	m
53	2852	m
54	2815	m
55	2886	m
56	2853	m
57	2835	m
58	2798	m
59	2850	m
60	2855	m
G	284.70	m

91		m
92		m
93		m
94		m
95		m
96		m
97		m
98		m
99		m
100		m
K		m

21	2822	m
22	2808	m
23	2843	m
24	2885	m
25	2774	m
26	2815	m
27	2876	m
28	2793	m
29	2886	m
30	2840	m
D	283.42	m

61	2882	m
62	2859	m
63	2873	m
64	2905	m
65	2836	m
66	2868	m
67	2877	m
68	2875	m
69	2877	m
70	2893	m
H	287.45	m

A	368.02	m
B	285.52	m
C	281.86	m
D	283.42	m
E	285.02	m
F	283.49	m
G	284.70	m
H	287.45	m
I	288.20	m
J	261.22	m
K		m

Liner	353.14	m
Shoe, Collar etc.	12.98	m
Overall	366.12	m
ip	1.00	m
Subs 2.00	2.00	m
A	368.02	m

31	2873	m
32	2868	m
33	2816	m
34	2890	m
35	2719	m
36	2857	m
37	2877	m
38	2870	m
39	2848	m
40	2888	m
E	285.02	m

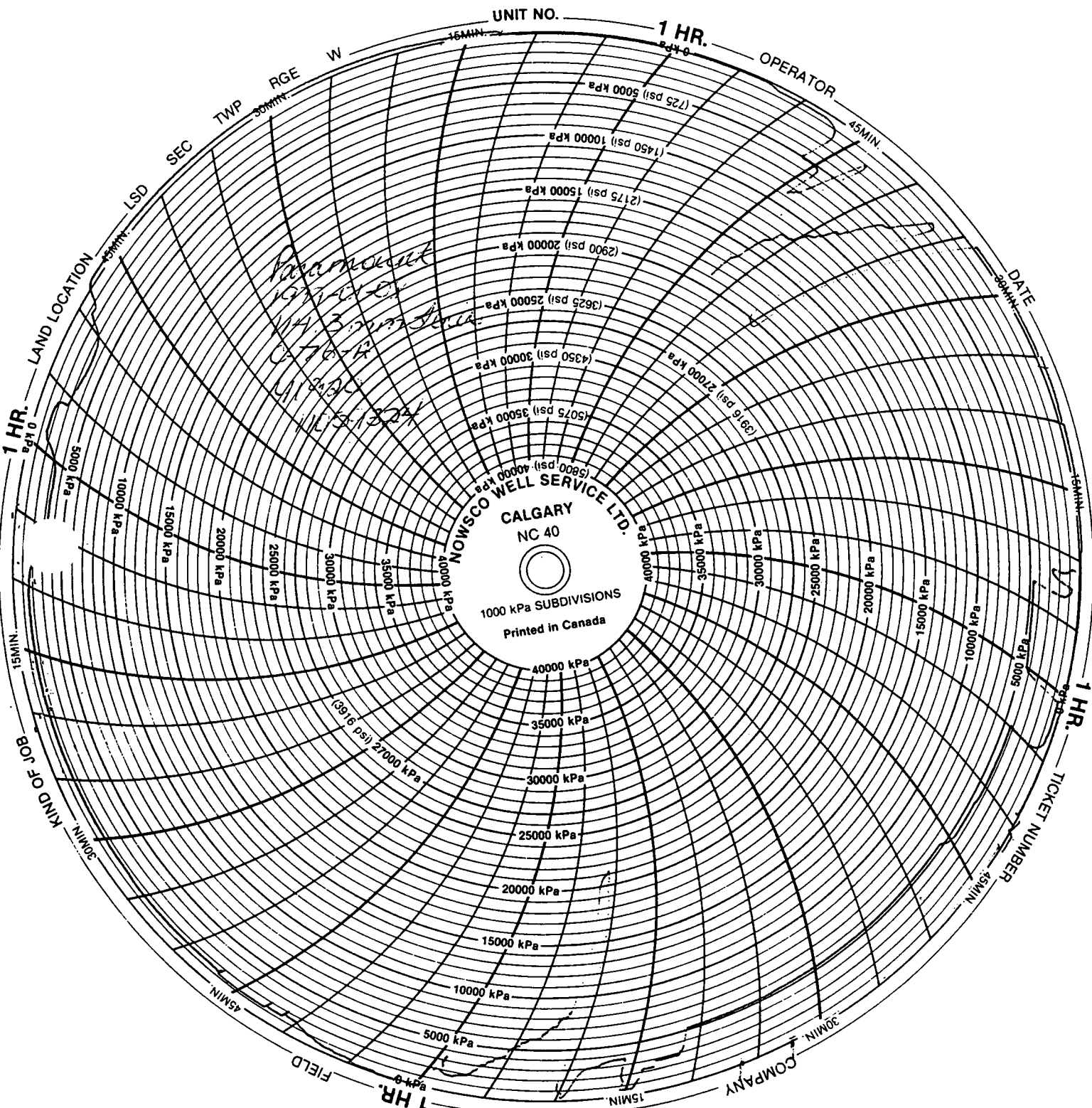
71	2874	m
72	2847	m
73	2847	m
74	2841	m
75	2811	m
76	2881	m
77	2912	m
78	2916	m
79	2878	m
80	2913	m
I	288.20	m

TOTAL 2908.90
 - 15m 9.36
 2899.54
 1 Aug 2.90
 2902.44
 Box of elem.
 @ 2900
 shoe @ 2902.13
 1/1 Top 2536.01
 of lap 113.99

2902.44
 + 503.70
 TOTAL 2903.14

11059324

CUSTOMER:		Service Order No. Y1920		Treatment Report No.		Job No.		Proposal No.		DATE: 1999-01-08		
Amount												
ADDRESS:		JOB TYPE: 114.3mm Liner										
LOCATION: C-76-A		WELL NAME: Paramount Et Al Boule				CONTRACTOR: Precision #507				PROVINCE: NWT		
Hole Size (mm): 152		Total Depthn (m): 346.4		Mud Type: Invert		Viscosity mPa's		Density kg/m3				
Casing or Liner	Size mm 114.3	Density kg/m 17.26		Grade N-80		Depth m 353.14		Type of Plugs				
	Size mm	Density kg/m		Grade		Depth m		Top mm				
Total : m								Btm mm				
Drill Pipe or Tubing	Size mm 88.9	Density kg/m 23.07		Grade E		Depth m 2542.64		Type of Head				
	Size mm	Density kg/m		Grade		Depth m		Cardium				
Perforations	From: (m)	To: (m)	PUMP OUT LINES: Yes		RETURNS:		TYPE: Mud					
	From: (m)	To: (m)	FLOAT HOLDING: Yes		Full		AMT (m3)		11.58			
	From: (m)	To: (m)	TYPE OF PACKER or SPECIAL TOOL: Packer					DEPTH (m)		2903.14		
TEMPERATURE (°C) -30		MIXING WATER (°C)			DRY CEMENT (°C)			SLURRY (°C)				
TIME ARRIVED AT LOCATION 10:30 99-01-08				TIME LEFT LOCATION 00:00 99-01-09								
CEMENT DATA				Density kg/m3		Yield, m3/t		Total Yield, m3				
	AMOUNT, t	CEMENT BLEND	ADDITIVES		SLURRY	D.H. FOAMED	SLURRY		D.H. FOAMED			
Scavenger												
Fill	5.4	Thermal 40F	+3% R-6, +4% D-24, +5% T-10, +1% sepiolite		1876		.458		4.0			
Tail In												
Fill												
Tail In												
CASING OR LINER DATA							PLUG BACK DATA					
REMARKS	TIME		RATE m3/min	PRESSURE, kPa		Volume Pumped m3	Plug #	Top (m)	Bottom (m)	Cement (t)	Displacement	Time Plug Down
	Start	Finish		Max.	Min.							
Safety Meeting	18:15	18:30										
Pump invert	18:31	18:33	.60	500	500	.2						
Pressure test	18:34	18:36		21000								
Set packer open tool	18:36	18:46	.6	18500	2000	1.8						
Rig circulate	18:46	19:45										
Pump diesel	19:48	19:56	.5	3500	2000	3.0	PREFLUSH TYPE (m3)					
Pump nowflush 5C	19:56	20:06	.5	3500	2000	3.0	1. Diesel 3.0		3			
Batch mix cement	20:06	20:41					2. Nowflush 5C 3.0		4			
Pump cement	20:41	20:55	.45	2000	500	4.0	STAGE N2 RATIO (m3/m3)					
Displace cement	20:55	21:08	.8	8000	500	11.58	1.		3.			
Plug down	21:08	21:10		21000			2.		4.			
Add pressure unlatch	21:11	21:15		3500	500		SQUEEZE DATA (m3)					
Change hole to H2O	21:16	22:09	.75	5000		30.0	Total Slurry in Formation					
							Total Slurry in Casing					
							Total Backwashed					
							Total Slurry					
NOWSCO REPRESENTATIVE: Carl Prescott							CUSTOMER REPRESENTATIVE: Gerry Sanders					



UNIT NO.

1 HR.

OPERATOR

DATE

1 HR.

TICKET NUMBER

COMPANY

FIELD

1 HR.

1 HR.

KIND OF JOB

LAND LOCATION

LSD

SEC

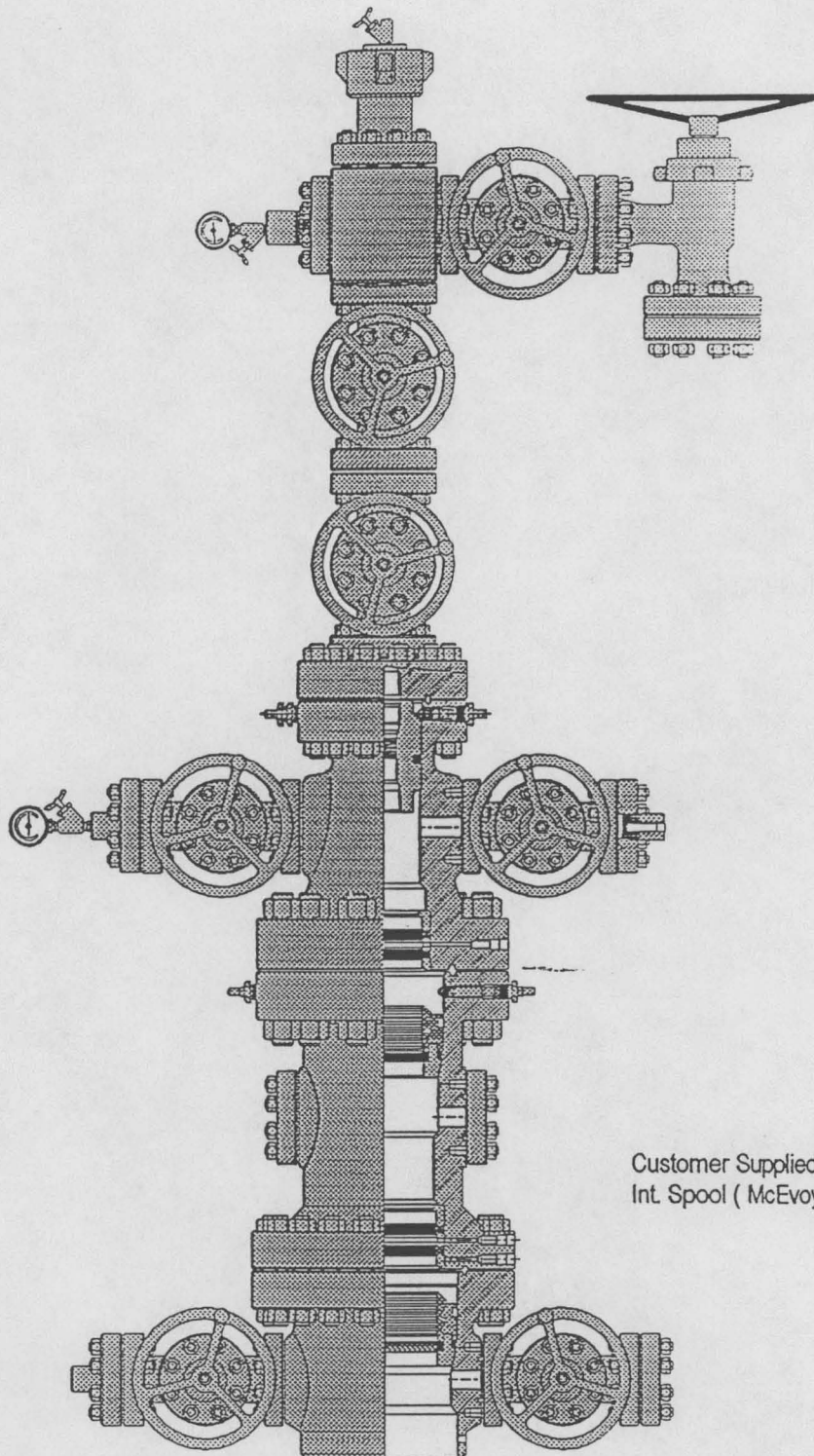
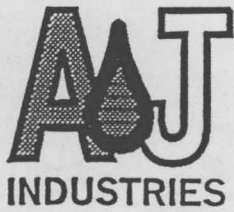
TWP

RGE

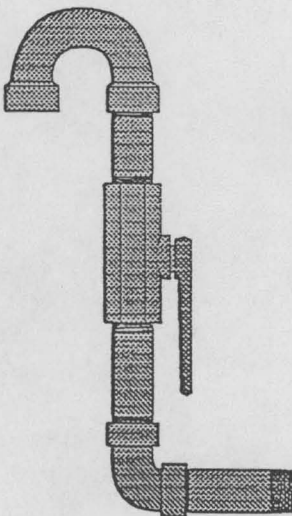
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NOWSCO WELL SERVICE LTD.
CALGARY
NC 40
1000 kPa SUBDIVISIONS
Printed in Canada

WELLHEAD



Customer Supplied Casing Bowl &
Int. Spool (McEvoy Equipment)



PARAMOUNT RESOURCES LTD.

AJ INDUSTRIES.

LOCATION :C-76

13 5/8" 5000 X 13 3/8" X 11" 5000 X 3 1/2"

SOUR.

DATE: 06/01/93

WELL FILE

PARAMOUNT RESOURCES LTD.

LOCATION: C - 76

ITEM	DESCRIPTION	QTY
H-1702	7-1/16" x 3-1/2" EUE Walker Xp-1 1704 MAT'L Tubing Hanger s/n # 22536-01	1
RG-46s	R-46 Stainless Steel Ring Gasket	1
SN-1414	Set Of (12) 1-1/8" x 8" Long Studs & Nuts	3
AF-6	7 1/16" 3M x 3 1/8" 5M Walker XP-1 Adaptor Flange c/w Seal Pocket s/n # 22583.01	1
GV-1815	3 1/8" 5M FLGD T-37 Full Opening Barton Gate Valve s/n # 23769-000-1, 23769-000-2, 23769-0005	3
BP-1	2" LP Bull Plug XXH Solid	3
GV-1807	2 1/16" 5M FLGD T-37 Full Opening Walker s/n # 22468-07, 21383-80	2
BP-2	2" LP Bull Plug XXH Tapped 1/2" NPT	1
SN-10	Set Of (8) 7/8" x 6" Long Studs & Nuts	2
NV-1	1/2" NPT Needle Valve Straight Sour Service	3
PG-3	Pressure Gauge 0 -5000# c/w 4" Dial	3
CF	Companion Flange 2 1/16" - 5000# x 2" LP	3
stud	Studded Cross 3 1/8" 5M x 3 1/8" 5M x 3 1/8" 5M x 2 1/16" 5M s/n # 20466	1
tc	CRC BHTA 3 1/8" 5M c/w 3 1/2" UPTBG & Top Cap s/n # 20466	1
choke	Master Flow P-2 Choke Valve 3 1/8" 5M S.S. W/Stellite Trim c/w 72/64" s/n # P2-7202	1
CF	Companion Flange 3 1/8" - 5000# x 3 1/2" EUE, 5 Bolt	1
RG-24s	R-24 Stainless Steel Ring gasket	5
RG-35s	R-35 Stainless Steel Ring Gasket	7
TH-415	Tubing Head Rector ML-2A 11" 5M x 7-1/16" 5M c/w 2-2" SSO s/n # 1920-4	1
SP-504	11" x 7" Secondary Packoff Walker GOF c/w Dovetail Groove s/n # 20568-06	1
SN-1419	Set Of (12) 1-7/8" x 13-3/4" L7M;2HM Long Studs & Nuts	1
RG-54s	R-54 Stainless Steel Ring Gasket	1
RG-46s	R-46 Stainless Steel Ring Gasket	1

DATE:06/01/98

WELL FILE

PARAMOUNT RESOURCES LTD.

LOCATION: C – 76

Customer Bowl – McEvoy “S” 13 5/8” 5000# c/w 2-2 1/16” 5000# SSO

Customer Slips – McEvoy “SB-6” 13 5/8” x 9 5/8”

Customer Int. Spool – McEvoy “SSY” 13 5/8” x 11” 5000# SSO

Customer Slips – McEvoy “SB-6” 11” x 7”

DRILLING FLUID

:



Well Name: **PARAMOUNT BOVIE LAKE** C76 A
Location: **60 - 20 - 122 - 45 W**
Spud Date (m/d/y): **12/15/98** Total Depth: **3464**
Completion Date: **1/9/99** Total Days: **26**
Contractor: **Precision 507** Service(Y/N) **Yes**
Job ID: **28406** TSR: **Craig Shydowski, Mike Soukeroff**

Well Profile	Hole Size	Casing Size	Csg./Mud up Depth	Days	Mud System	Max. Mud Density	Maximum Deviation	Dev. Depth
Surface Hole								
Top Hole								
Intermediate								
2nd Intermediate								
Liner								
Main Hole	152	103516	2521	26	invert	1075	9482422	3113

Lost Circulation Depths/Zones: none

Pressured Zones: 3106

H2S Zones: 3106, 8ppm at shaker once

Sloughing Zones: none

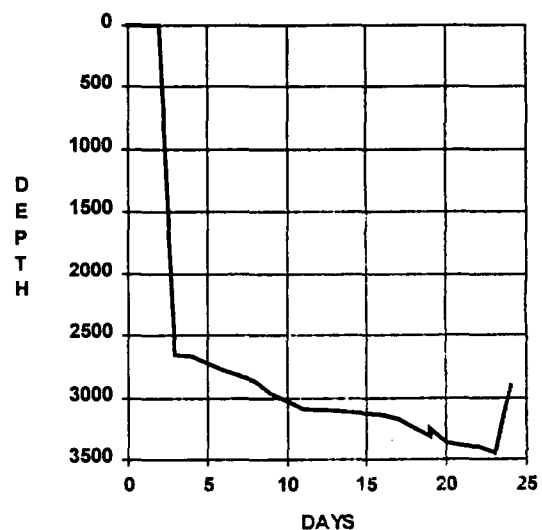
PROBLEMS AND COMMENTS

Plug was drilled out and polished with water from 2495-2521m, at which point, hole was displaced over to invert by reverse circulating, it does not look like to me that a spacer was used. No contamination was noted or is apparent in the following mud checks. Drilled cement to 2625m, and picked up directional tools. Time drill and gyro survey from to 2660m, pulling gyro once since it was overheating. Drilled ahead to 2862m, trip for directional tools, no mud additions to this point, mud well within programmed specifications. Drilled ahead directionally to 3035m adding lime through the hopper as it had dropped from 14 kg/m³ to 2.21 kg/m³, no sulphides reported from garret gas train, also added a small amount of calcium chloride. While drilling ahead from 3035 -3073m, added 1 l/m³ HSO-600 for possible H₂S in sulphur point, also raising lime content to 20 kg/m³. At 3106m, well flowed with the pump off, shut it in and established a sidp of 300 kpa. Killed the well with barite going from 915 kg/m³ to 970 kg/m³. Mike reported a residual reading of 10 mg/l H₂S in mud. Riggged in Entest to circulate through them, which did not work. Changed out bha, drilled ahead to 3107m, where the well was then weighted up to 1050 kg/m³, no sulphides detected at this point. Proceeded to drill ahead to 3131m, adding lime and small amounts of HSO-600, no sulphides detected, I suspect that the lime is being used up in a reaction with CO₂ myself, as none of the garret gas trains, or subsequent btms up ever showed any signs of H₂S. After 3180m, no more lime or HSO-600 was added, and lime content remained constant. Btms up gas after trips was up to 70%, and had an odour, but was never sour. Tried at various times to divert returns from the hole to Entest, but could never get their equipment to function properly.

Drilled ahead directionally from 3180m to TD of 3467m MD, with nothing other than the usual trips for bits. Had 1 pulser sub failure, and TD was called early due to a possible wash in the directional tools. No hole problems were encountered. 1 meter of fill was reported on bit trip #7RR. Weight was maintained between 1065 and 1075 kg/m³. Calcium chloride remained a constant 25%, and the oil/water ratio also stayed a constant 95.2/4.8. Losses were minimal through this section of the hole, 48.5 m³ total, and averaged 4.65m³/100m, including stripping at the end of the hole.

Invert was stripped back to 900 kg/m³ at the rig with 2 coyote centrifuges before being transferred to the next location.

Product Used - Unit:	Quantity:
Base oil - m3	15
Calcium Chloride Flake - 40.0 kg	5
Calcium Chloride Invert 1m3	21
Carbomul SEA - 55.0 G	2
Floor Dry - 15.0 kg	6
HSO 600K - 19.0 L	10
Lime - 20kg	35
Lime - 22.7 kg	100
Milbar - 40.0 kg	580
Oilgel 3000 - 22.7	41
Pallet - ea.	5
Sawdust - 18.1 kg	50
Shrink Wrap - pallet	64



TIME DISTRIBUTION

PARAMOUNT ET AL BOVIE C-76A (Whipstock)

Time Distribution

DECEMBER, 1998															JANUARY, 1999										OPERATION		TOTAL HOURS		
DATE	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10		
DAYS FROM SPUD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
DRILLING				4	10	12	5.25	19.25	4.75	20.25	20.25	10.5	8.25	3.25	1	11		11.75	21.25	6.25	20.75	10.75	6.25	14	5.25		DRILLING	226	
TRIPS			13.25				7.75		10			7	7		2	8.5	10	6.75		12	0.5	6.5	11.75	6.75		8.5	TRIPS	118.25	
RIG SERVICE	0.5	0.5	1	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.5	0.5	0.5	0.5	0.5		0.5	0.25	0.75	0.25	0.5		RIG SERVICE	12	
SURVEY				11.25	5	5	4.25	4	2	3.25	3.25	4.75	4		0.5	1.5		1	2.25	2.75	2.25	2	0.25	1.25	0.25		SURVEY	60.75	
REAM & COND													2.25					2.25		1			1.75	0.25			REAM & COND	7.5	
COND MUD																											COND MUD	0	
CIRCULATE		0.75	0.75	2.25		0.25	1.75		1			0.75		18	18.25	2	1			1		1.25	1.25			5	CIRCULATE	55.25	
RIG REPAIRS					1.5																						RIG REPAIRS	1.5	
CSG & CMT																								15.25	1.25		CSG & CMT	16.5	
FISHING																											FISHING	0	
LOGGING																											LOGGING	0	
CORING																											CORING	0	
TESTING																											TESTING	0	
WAITING TIME				2.75													8.75										WAITING TIME	11.5	
NU & PT	17.5								2																	10	NU & PT	29.5	
DRILL OUT		6.75	5																								DRILL OUT	11.75	
LOST CIRC																											LOST CIRC	0	
LD DP & DC																									3	5.25	3	LD DP & DC	11.25
PLUG/ABAND																											PLUG/ABAND	0	
RIG UP OTHER																											RIG UP OTHER	0	
SAFETY MTG													2		0.75											0.5	SAFETY MTG	3.25	
HANDLE TOOL	6	16	4	3.5	7.25	6.25	4.5	0.25	3.75			0.5		2.5	1	0.5	3.75	1.75		0.5	0.5	3	2.5	1		3		72	
TOTAL	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	13	TOTAL	637	

DEVIATION SURVEYS

COMPLETION

FOR

PARAMOUNT RESOURCES LIMITED

PARAMOUNT ET AL BOVIE LAKE C76A

LOCATION:

UNIT C SEC 76 GRID AREA 60°20', 122°45'

UGC FILE: **8689 C**

99-01-30

UNITED GEOCOM DRILLING SERVICES
9204 - 37th AVENUE
EDMONTON, AB, CANADA T6E 5L4
PHONE: (403) 462-6300
FAX: (403) 466-6002

UNITED GEOCOM DRILLING SERVICES
2140 530 - 8 TH AVENUE, S.W.
CALGARY, AB, CANADA T2P 3S8
PHONE: (403) 218-2400
FAX: (403) 218-2401

UNITED GEOCOM DRILLING SERVICES

Client : PARAMOUNT RESOURCES LIMITED
 Well Name : PARAMOUNT ET AL BOVIE LAKE C76
 Location : UNIT C SEC 76 GRID AREA 60°20', 122°45'

Page : 1 of 5
 Date : 99/01/30
 File : 8689C

Vertical Section Calculated Along AZ 225.00°

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
30.60	0.63	288.66	30.60	0.05	-0.16	0.00	0.62	0.62	-69.9
61.10	0.69	287.18	61.10	0.16	-0.49	0.23	0.06	0.06	-1.5
91.70	1.17	277.37	91.69	0.26	-0.98	0.51	0.49	0.47	-9.6
122.20	1.42	268.68	122.19	0.29	-1.67	0.97	0.31	0.25	-8.5
152.80	1.92	269.92	152.77	0.28	-2.56	1.61	0.49	0.49	1.2
183.30	2.14	269.84	183.25	0.28	-3.64	2.38	0.22	0.22	-0.1
213.90	2.37	262.76	213.83	0.19	-4.84	3.28	0.35	0.23	-6.9
244.50	2.75	266.04	244.40	0.06	-6.20	4.34	0.40	0.37	3.2
275.00	2.70	262.72	274.86	-0.08	-7.64	5.46	0.16	-0.05	-3.3
305.60	2.76	263.58	305.43	-0.25	-9.09	6.60	0.07	0.06	0.8
336.10	2.90	262.11	335.89	-0.44	-10.58	7.79	0.16	0.14	-1.4
366.70	2.56	263.30	366.46	-0.63	-12.03	8.95	0.34	-0.33	1.2
397.30	1.96	262.08	397.03	-0.78	-13.22	9.90	0.59	-0.59	-1.2
427.80	1.25	251.99	427.52	-0.95	-14.06	10.61	0.75	-0.70	-9.9
458.40	1.32	245.97	458.11	-1.20	-14.70	11.24	0.15	0.07	-5.9
488.90	1.30	247.78	488.61	-1.47	-15.34	11.89	0.04	-0.02	1.8
519.40	1.06	241.98	519.10	-1.74	-15.91	12.47	0.26	-0.24	-5.7
550.00	1.00	241.24	549.69	-2.00	-16.39	13.00	0.06	-0.06	-0.7
580.60	0.99	245.65	580.29	-2.23	-16.86	13.51	0.08	-0.01	4.3
611.20	1.52	241.84	610.88	-2.54	-17.46	14.14	0.53	0.52	-3.7
641.70	1.64	240.01	641.37	-2.94	-18.20	14.95	0.13	0.12	-1.8
672.20	1.76	248.02	671.86	-3.34	-19.01	15.80	0.26	0.12	7.9
702.80	1.91	243.81	702.44	-3.74	-19.90	16.72	0.20	0.15	-4.1
733.40	1.86	249.43	733.03	-4.14	-20.83	17.65	0.19	-0.05	5.5
764.00	1.92	244.49	763.61	-4.53	-21.75	18.59	0.17	0.06	-4.8
794.50	1.93	248.60	794.09	-4.94	-22.69	19.54	0.14	0.01	4.0
825.10	1.70	239.86	824.68	-5.36	-23.57	20.45	0.35	-0.23	-8.6
855.60	1.74	239.31	855.16	-5.82	-24.35	21.34	0.04	0.04	-0.5
886.20	1.59	238.28	885.75	-6.28	-25.12	22.20	0.15	-0.15	-1.0
916.65	1.41	238.79	916.19	-6.70	-25.80	22.98	0.18	-0.18	0.5
947.30	1.37	234.91	946.83	-7.10	-26.42	23.70	0.10	-0.04	-3.8
977.80	1.50	233.74	977.32	-7.55	-27.04	24.46	0.13	0.13	-1.2
1008.40	1.93	238.90	1007.91	-8.05	-27.80	25.35	0.45	0.42	5.1
1039.00	2.06	237.76	1038.49	-8.61	-28.71	26.39	0.13	0.13	-1.1

UNITED GEOCOM DRILLING SERVICES

Client : PARAMOUNT RESOURCES LIMITED
 Well Name : PARAMOUNT ET AL BOVIE LAKE C76
 Location : UNIT C SEC 76 GRID AREA 60°20', 122°45'

Page : 2 of 5
 Date : 99/01/30
 File : 8689C

Vertical Section Calculated Along AZ 225.00°

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30
1069.50	2.34	243.09	1068.97	-9.19	-29.73	27.52	0.34	0.28	5.2
1100.10	2.54	240.30	1099.54	-9.80	-30.87	28.76	0.23	0.20	-2.7
1130.60	2.40	243.60	1130.01	-10.42	-32.03	30.02	0.20	-0.14	3.2
1161.20	2.47	230.82	1160.58	-11.12	-33.12	31.28	0.54	0.07	-12.5
1191.80	2.64	222.55	1191.15	-12.06	-34.11	32.64	0.40	0.17	-8.1
1222.32	2.80	217.57	1221.64	-13.17	-35.03	34.09	0.28	0.16	-4.9
1252.90	2.77	205.14	1252.18	-14.43	-35.80	35.52	0.59	-0.03	-12.2
1283.40	2.62	203.75	1282.65	-15.74	-36.40	36.86	0.16	-0.15	-1.4
1314.00	2.09	209.89	1313.22	-16.86	-36.96	38.05	0.57	-0.52	6.0
1344.60	1.40	222.93	1343.81	-17.62	-37.49	38.97	0.78	-0.68	12.8
1375.10	1.10	240.43	1374.30	-18.03	-38.00	39.62	0.47	-0.30	17.2
1405.70	1.00	275.78	1404.90	-18.15	-38.52	40.07	0.63	-0.10	34.7
1436.20	1.50	286.05	1435.39	-18.01	-39.17	40.43	0.54	0.49	10.1
1471.00	1.75	279.66	1470.18	-17.80	-40.13	40.96	0.27	0.22	-5.5
1507.30	1.66	277.23	1496.46	-17.68	-40.90	41.43	0.13	-0.10	-2.8
1527.90	1.37	276.92	1527.05	-17.58	-41.71	41.93	0.28	-0.28	-0.3
1558.50	1.47	282.40	1557.64	-17.46	-42.45	42.36	0.17	0.10	5.4
1589.00	1.93	288.67	1588.13	-17.21	-43.32	42.80	0.49	0.45	6.2
1619.60	1.74	299.16	1618.71	-16.82	-44.22	43.16	0.38	-0.19	10.3
1650.10	1.75	308.13	1649.20	-16.30	-44.99	43.34	0.27	0.01	8.8
1680.70	1.78	319.60	1679.79	-15.65	-45.66	43.36	0.35	0.03	11.2
1711.20	1.33	339.25	1710.27	-14.96	-46.09	43.17	0.68	-0.44	19.3
1741.80	1.35	0.71	1740.87	-14.27	-46.22	42.77	0.49	0.02	21.0
1772.40	1.19	20.87	1771.46	-13.61	-46.10	42.22	0.46	-0.16	19.8
1802.90	1.31	40.65	1801.95	-13.05	-45.76	41.58	0.44	0.12	19.5
1833.50	1.19	43.50	1832.54	-12.55	-45.31	40.92	0.13	-0.12	2.8
1864.00	1.28	44.29	1863.04	-12.08	-44.86	40.26	0.09	0.09	0.8
1894.60	1.40	46.02	1893.63	-11.58	-44.35	39.54	0.12	0.12	1.7
1925.20	1.25	52.69	1924.22	-11.12	-43.81	38.84	0.21	-0.15	6.5
1955.70	0.98	46.47	1954.71	-10.73	-43.36	38.25	0.29	-0.27	-6.1
1986.30	0.67	50.30	1985.31	-10.44	-43.03	37.81	0.31	-0.30	3.8
2016.80	0.48	60.95	2015.81	-10.26	-42.78	37.51	0.21	-0.19	10.5
2047.40	0.29	72.47	2046.41	-10.18	-42.60	37.32	0.20	-0.19	11.3
2071.90	0.63	251.11	2070.91	-10.20	-42.67	37.38	1.13	0.42	99.0
2108.50	0.86	244.96	2107.51	-10.38	-43.11	37.82	0.20	0.19	-5.0

UNITED GEOCOM DRILLING SERVICES

Client : PARAMOUNT RESOURCES LIMITED
 Well Name : PARAMOUNT ET AL BOVIE LAKE C76
 Location : UNIT C SEC 76 GRID AREA 60°20', 122°45'

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 Date : 99/01/30
 File : 8689C

Vertical Section Calculated Along AZ 225.00°

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30
2139.10	1.60	254.38	2138.10	-10.60	-43.72	38.41	0.75	0.73	9.2
2169.60	2.07	263.14	2168.58	-10.78	-44.68	39.22	0.54	0.46	8.6
2200.20	2.02	265.49	2199.16	-10.89	-45.77	40.06	0.10	-0.05	2.3
2230.70	2.16	269.71	2229.64	-10.93	-46.88	40.88	0.21	0.14	4.2
2261.30	1.99	269.26	2260.22	-10.94	-47.99	41.67	0.17	-0.17	-0.4
2291.90	1.88	276.00	2290.81	-10.89	-49.02	42.36	0.25	-0.11	6.6
2322.40	1.69	281.05	2321.29	-10.76	-49.96	42.93	0.24	-0.19	5.0
2353.00	1.65	288.64	2351.88	-10.53	-50.82	43.38	0.22	-0.04	7.4
2383.50	1.41	296.71	2382.37	-10.22	-51.57	43.69	0.32	-0.24	7.9
2414.10	1.43	300.25	2412.96	-9.86	-52.23	43.91	0.09	0.02	3.5
2444.60	1.08	293.16	2443.45	-9.55	-52.83	44.11	0.38	-0.34	-7.0
2475.20	1.36	288.13	2474.04	-9.33	-53.44	44.38	0.29	0.27	-4.9
2505.00	1.31	289.65	2503.83	-9.10	-54.09	44.69	0.06	-0.05	1.5
2536.30	1.50	296.64	2535.13	-8.80	-54.80	44.97	0.25	0.18	6.7
2566.90	1.67	286.32	2565.71	-8.49	-55.58	45.31	0.33	0.17	-10.1
2597.40	1.90	280.85	2596.20	-8.27	-56.51	45.81	0.28	0.23	-5.4
2627.00	1.68	276.73	2625.78	-8.13	-57.42	46.35	0.26	-0.22	-4.2
TIE ON TO GYRO SURVEYS									
2635.00	1.93	276.19	2633.78	-8.10	-57.67	46.51	0.94	0.94	-2.0
2657.00	2.10	234.30	2655.77	-8.30	-58.36	47.14	1.98	0.23	-57.1
2677.81	3.05	216.13	2676.56	-8.97	-59.00	48.06	1.79	1.37	-26.2
2687.56	2.96	213.38	2686.29	-9.39	-59.29	48.56	0.52	-0.28	-8.5
2697.30	3.52	211.74	2696.02	-9.85	-59.59	49.10	1.75	1.72	-5.1
2707.02	4.51	214.34	2705.72	-10.42	-59.96	49.77	3.11	3.06	8.0
2716.75	5.26	212.41	2715.41	-11.11	-60.42	50.58	2.37	2.31	-6.0
2726.42	5.23	218.92	2725.04	-11.83	-60.93	51.45	1.85	-0.09	20.2
2736.19	6.30	228.32	2734.76	-12.53	-61.61	52.43	4.37	3.29	28.9
2745.84	7.84	233.84	2744.34	-13.27	-62.54	53.61	5.23	4.79	17.2
2755.49	7.56	235.51	2753.90	-14.02	-63.59	54.88	1.11	-0.87	5.2
2765.14	7.95	230.44	2763.46	-14.81	-64.63	56.17	2.45	1.21	-15.8
2774.90	8.72	222.72	2773.12	-15.78	-65.65	57.58	4.17	2.37	-23.7
2794.25	8.87	222.36	2782.36	-16.83	-66.62	59.01	0.51	0.48	-1.2
2803.96	10.93	221.67	2791.92	-18.07	-67.73	60.68	6.37	6.36	-2.1
2803.16	11.89	221.24	2800.94	-19.44	-68.94	62.49	3.14	3.13	-1.4
2813.41	12.05	216.55	2810.97	-21.09	-70.27	64.60	2.88	0.47	-13.7
2823.16	12.08	220.92	2820.50	-22.68	-71.55	66.63	2.81	0.09	13.4

UNITED GEOCOM DRILLING SERVICES

Client : PARAMOUNT RESOURCES LIMITED
 Well Name : PARAMOUNT ET AL BOVIE LAKE C76
 Location : UNIT C SEC 76 GRID AREA 60°20', 122°45'

Page : 4 of 5
 Date : 99/01/30
 File : 8689C

Vertical Section Calculated Along AZ 225.00°

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30
2832.29	11.88	224.57	2829.44	-24.07	-72.83	68.52	2.57	-0.66	12.0
2842.22	11.77	235.00	2839.16	-25.38	-74.38	70.54	6.46	-0.33	31.5
2851.45	12.24	239.45	2848.18	-26.42	-75.99	72.42	3.37	1.53	14.5
2861.14	12.90	244.09	2857.64	-27.41	-77.85	74.43	3.73	2.04	14.4
2870.87	13.32	241.60	2867.12	-28.42	-79.81	76.53	2.17	1.29	-7.7
2880.58	15.78	236.19	2876.52	-29.69	-81.90	78.90	8.68	7.60	-16.7
2890.30	18.66	238.35	2885.80	-31.24	-84.32	81.71	9.10	8.89	6.7
2900.02	18.32	232.90	2895.02	-32.98	-86.86	84.74	5.43	-1.05	-16.8
2909.74	19.84	232.84	2904.20	-34.89	-89.39	87.88	4.69	4.69	-0.2
2919.11	23.34	230.44	2912.92	-37.04	-92.09	91.31	11.55	11.21	-7.7
2928.84	26.33	226.04	2921.75	-39.76	-95.13	95.39	10.83	9.22	-13.6
2938.53	29.83	225.86	2930.29	-42.93	-98.41	99.95	10.84	10.84	-0.6
2948.21	34.52	223.93	2938.49	-46.59	-102.04	105.10	14.88	14.54	-6.0
2957.93	39.12	222.70	2946.26	-50.83	-106.03	110.92	14.38	14.20	-3.8
2967.32	40.67	224.90	2953.47	-55.17	-110.20	116.94	6.70	4.95	7.0
2977.04	43.11	222.42	2960.70	-59.87	-114.68	123.43	9.10	7.53	-7.7
2986.95	45.66	221.21	2967.79	-65.04	-119.30	130.35	8.13	7.72	-3.7
2996.48	48.64	221.23	2974.27	-70.29	-123.90	137.32	9.38	9.38	0.1
3006.22	51.48	221.28	2980.52	-75.90	-128.83	144.77	8.75	8.75	0.2
3015.93	54.09	222.90	2986.39	-81.64	-134.01	152.49	8.99	8.06	5.0
3025.66	57.45	222.14	2991.86	-87.57	-139.45	160.53	10.54	10.36	-2.3
3035.35	60.53	221.45	2996.85	-93.76	-144.98	168.82	9.71	9.54	-2.1
3045.04	63.46	222.94	3001.41	-100.10	-150.73	177.36	9.94	9.07	4.6
3054.56	67.49	222.40	3005.36	-106.47	-156.60	186.01	12.79	12.70	-1.7
3064.47	72.34	222.94	3008.76	-113.31	-162.90	195.31	14.76	14.68	1.6
3074.16	75.47	223.41	3011.44	-120.09	-169.27	204.61	9.79	9.69	1.5
3083.83	76.30	222.90	3013.80	-126.94	-175.69	213.99	3.00	2.57	-1.6
3093.53	81.05	222.52	3015.71	-133.92	-182.14	223.49	14.74	14.69	-1.2
3103.23	83.94	220.81	3016.97	-141.11	-188.53	233.09	10.36	8.94	-5.3
3113.91	84.19	220.97	3018.08	-149.14	-195.48	243.68	0.83	0.70	0.4
3123.55	80.40	220.97	3019.37	-156.35	-201.74	253.21	11.79	-11.79	0.0
3133.25	79.90	218.10	3021.03	-163.72	-207.83	262.72	8.88	-1.55	-8.9
3142.95	79.70	217.17	3022.75	-171.28	-213.66	272.19	2.90	-0.62	-2.9
3152.69	79.80	218.10	3024.48	-178.87	-219.51	281.70	2.84	0.31	2.9
3162.24	78.70	218.00	3026.26	-186.26	-225.29	291.01	3.47	-3.46	-0.3

UNITED GEOCOM DRILLING SERVICES

Client : PARAMOUNT RESOURCES LIMITED
 Well Name : PARAMOUNT ET AL BOVIE LAKE C76
 Location : UNIT C SEC 76 GRID AREA 60°20', 122°45'

Page : 5 of 5
 Date : 99/01/30
 File : 8689C

Vertical Section Calculated Along AZ 225.00°

MD m	INC deg	DIR deg	TVD m	LAT m	DEP m	VS m	D'LEG °/30	BUILD °/30	TURN °/30
3171.97	78.00	216.80	3028.23	-193.83	-231.08	300.45	4.22	-2.16	-3.7
3181.68	79.80	218.40	3030.10	-201.38	-236.89	309.90	7.38	5.56	4.9
3191.38	80.30	220.71	3031.77	-208.74	-242.98	319.41	7.20	1.55	7.1
3201.09	80.90	222.71	3033.36	-215.89	-249.35	328.98	6.37	1.85	6.2
3210.77	80.90	222.90	3034.89	-222.90	-255.85	338.53	0.58	0.00	0.6
3220.52	81.00	223.00	3036.42	-229.95	-262.41	348.15	0.43	0.31	0.3
3230.21	81.00	222.80	3037.94	-236.96	-268.92	357.71	0.61	0.00	-0.6
3239.91	80.90	222.10	3039.47	-244.03	-275.39	367.28	2.16	-0.31	-2.2
3249.61	79.70	222.00	3041.10	-251.13	-281.79	376.83	3.72	-3.71	-0.3
3259.29	80.10	221.40	3042.80	-258.25	-288.13	386.35	2.21	1.24	-1.9
3269.03	80.90	220.60	3044.40	-265.50	-294.43	395.93	3.46	2.46	-2.5
3278.38	80.60	218.80	3045.91	-272.60	-300.33	405.12	5.78	-0.96	-5.8
3288.09	80.40	217.20	3047.51	-280.14	-306.22	414.62	4.91	-0.62	-4.9
3297.82	80.40	217.30	3049.13	-287.78	-312.03	424.13	0.30	0.00	0.3
3307.55	80.40	217.60	3050.75	-295.40	-317.86	433.64	0.91	0.00	0.9
3317.29	80.40	219.30	3052.38	-302.92	-323.84	443.18	5.16	0.00	5.2
3327.01	80.20	221.00	3054.02	-310.24	-330.01	452.73	5.21	-0.62	5.2
3336.69	80.30	222.90	3055.66	-317.33	-336.39	462.25	5.81	0.31	5.9
3346.12	79.90	221.70	3057.28	-324.20	-342.64	471.53	3.97	-1.27	-3.8
3355.79	80.20	220.60	3058.95	-331.38	-348.91	481.03	3.49	0.93	-3.4
3363.42	80.20	221.20	3060.25	-337.06	-353.83	488.53	2.32	0.00	2.4
3381.49	80.10	220.40	3063.34	-350.54	-365.47	506.29	1.32	-0.17	-1.3
3391.18	80.20	220.40	3065.00	-357.81	-371.65	515.81	0.31	0.31	0.0
3400.92	79.40	220.30	3066.72	-365.11	-377.86	525.36	2.48	-2.46	-0.3
3410.64	79.40	219.90	3068.51	-372.42	-384.01	534.88	1.21	0.00	-1.2
3420.36	81.20	219.90	3070.15	-379.77	-390.16	544.42	5.56	5.56	0.0
3430.03	81.00	219.90	3071.64	-387.10	-396.29	553.94	0.62	-0.62	0.0
3439.71	80.20	218.70	3073.22	-394.49	-402.34	563.44	4.43	-2.48	-3.7
3449.45	80.00	218.00	3074.90	-402.01	-408.29	572.97	2.21	-0.62	-2.2
EXTRAPOLATED TD: 3464.00m MD									
3464.00	80.32	219.92	3077.39	-413.16	-417.30	587.23	3.96	0.66	4.0

CLOSURE TO TD: 587.23m @ AZ 225.29°

UNITED GEOCOM DRILLING SERVICES

COMPLETION REPORT

COMPANY: PARAMOUNT RESOURCES LIMITED
WELL: PARAMOUNT ET AL BOVIE LAKE C76A
LOCATION: UNIT C SEC 76 GRID AREA 60°20', 122°45'

FILE: 8689 C
DATE: 99-01-30
TYPE: H

TOTAL DEPTH CO-ORDINATES

<u>RECTANGULAR</u>		<u>POLAR</u>	<u>MAGNETIC DECLINATION</u>
LAT: -413.16 m	DEP: -417.3 m	587.23 m @ AZ: 225.29°	27.3° EAST

COMPLETED TVD: 3077.39 m

MEASURED DEPTH: 3464 m

PROPOSED WELL

SURFACE:	3.1 S of NE SEC C-76	;	280.0 W of NE C-76	SEC
TARGET:	SEC D-76	;	SEC D-76	SEC 76

SURFACE TO TARGET

<u>RECTANGULAR</u>		<u>POLAR</u>
LAT: -424.53 m	DEP: -424.53 m	600.38 m @ AZ: 225°

TARGET TVD: 2900 m

PROJECTED TD: 3080 m

COMMENTS:

SEE COMPASS PROGRAM*
98/12/01
98/12/15

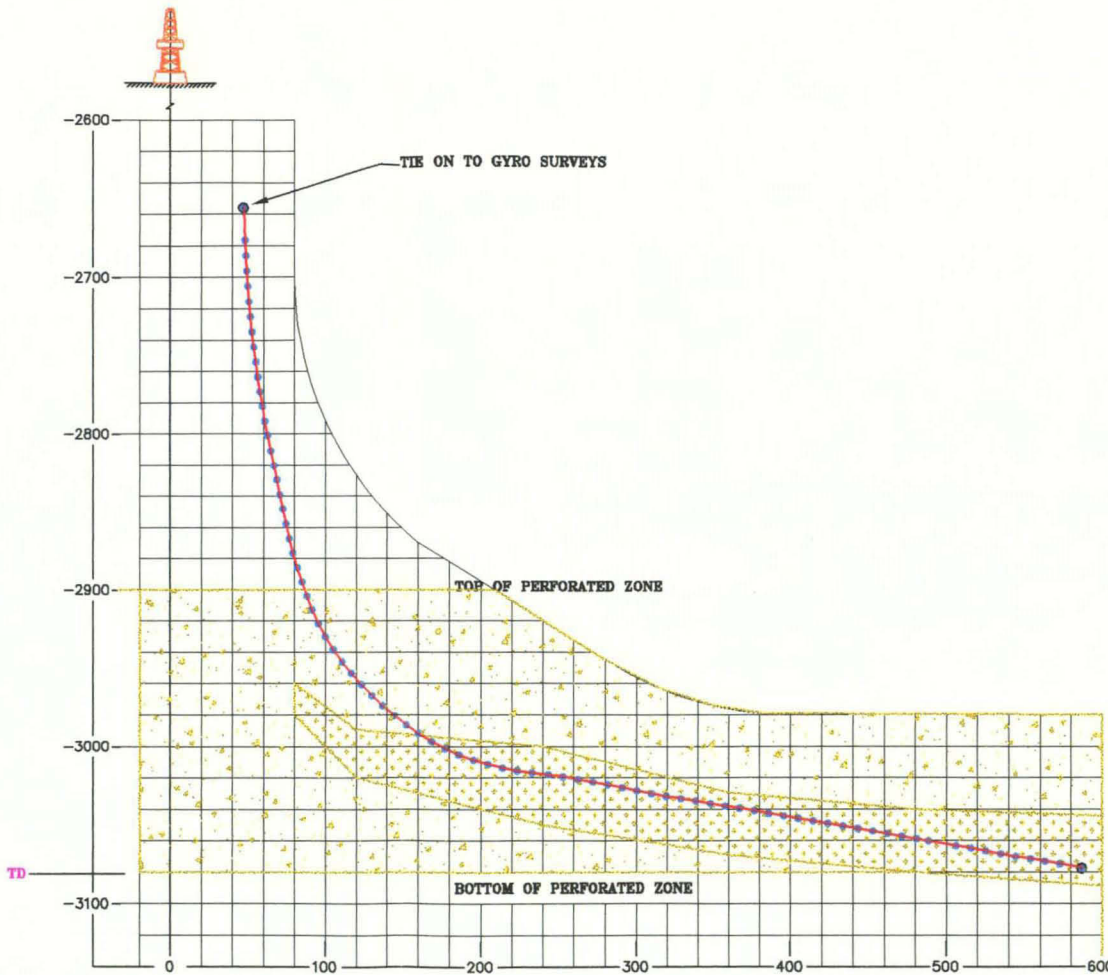
NOTE: DISTANCES & DEPTHS ARE IN METRES AND DECIMALS.
INCLINATIONS & DIRECTION ARE IN DECIMAL DEGREES
METHOD OF CALCULATION: *MINIMUM CURVATURE*
Dleg/Build: °/30m Intervals.
(-) VALUES INDICATE SOUTH FOR LATITUDE & WEST FOR DEPARTURE.
ALL DEPTHS BASED ON KB ELEVATION

PARAMOUNT ET AL BOVIE LAKE C76A

CLOSURE TO TD: 587.23m @ AZ 225.29°

VERTICAL PROJECTION

SCALE 1 Unit = 20 m



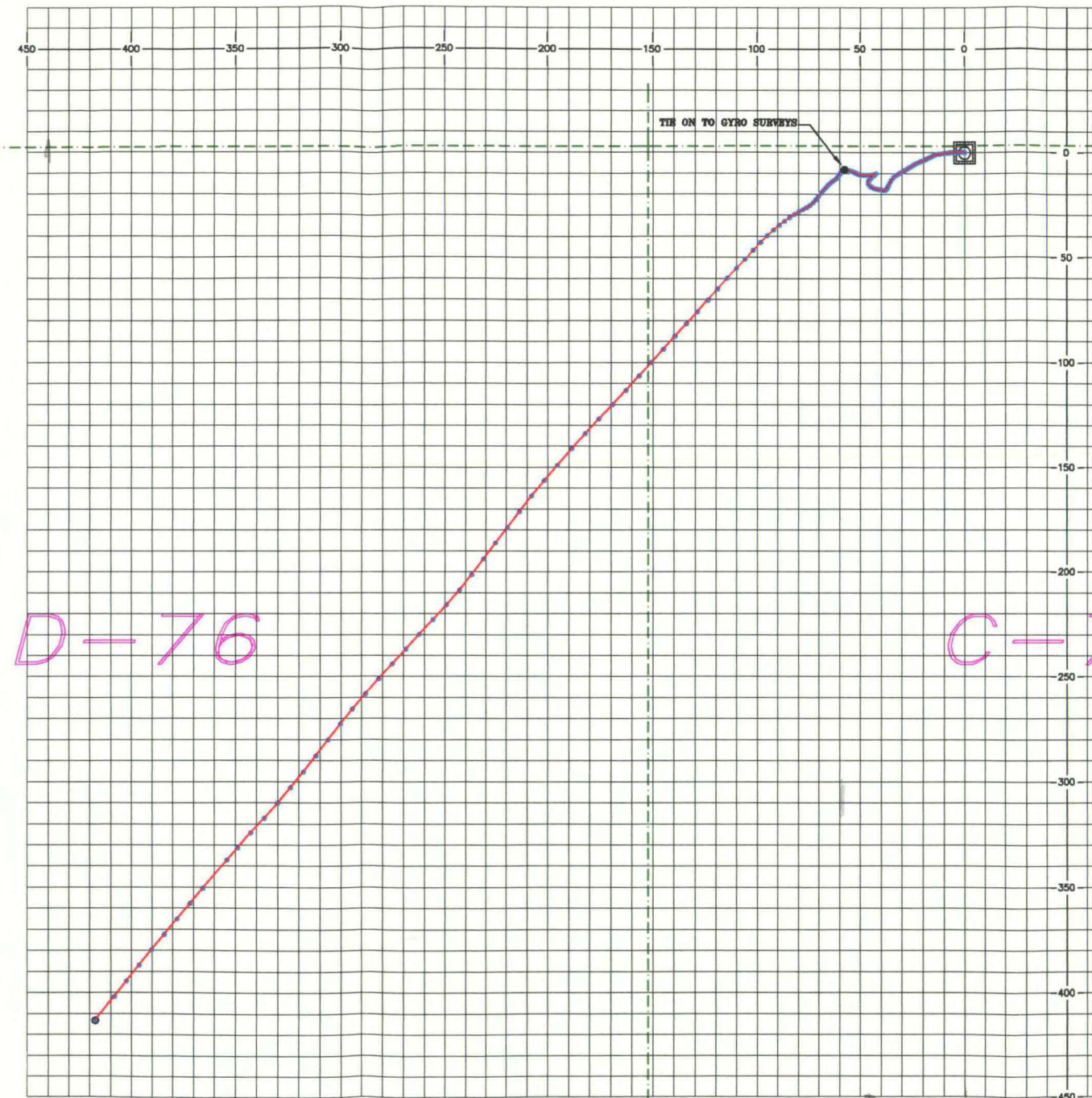
TOTAL DEPTH:
3464.00 Measured Depth
3077.39 True Vertical Depth
587.23 Horizontal Displacement

PARAMOUNT ET AL BOVIE LAKE C76A

CLOSURE TO TD: 587.23m @ AZ 225.29°

HORIZONTAL PROJECTION

SCALE 1 Unit = 10 m



TOTAL DEPTH:
413.16 S
417.30 W



SURFACE: 3.1 S of NE SEC C-76 ; 280.0 W of NE C-76 SEC.
TARGET: SEC D-76 ; SEC D-76 SEC.76
RECTANGULAR: (N/S) -424.53; (E/W) -424.53; MAG.DEC. 27.3°.
(TARGET) POLAR: 800.36m @ Az. 225° ; KB: 432.9m.

COMPANY:	PARAMOUNT RESOURCES LIMITED
WELLNAME	PARAMOUNT ET AL BOVIE LAKE C76A
LOCATION	UNIT C SEC 76 GRID AREA 60°20', 122°45'
FILE	8689
PROPOSAL/COMPLETION	COMPLETION
DATE	99/01/30

COMPOSITE WELL RECORD

4. GEOLOGY

Drill Cuttings

5 m interval kick-off point to total depth

Sample Distribution:

One set bagged samples and Two sets of glass vials
sent to G.S.C., Calgary Attention: Alan Scott

One Set vials to Paramount

Cores

N/A

Lithology:

See following pages for descriptions

Stratigraphic Column

Attached in this section

Biostratigraphic Column

N/A

LITHOLOGY

PARAMOUNT ET AL BOVIE C-76A

FORMATION TOPS (m)

GL: 426.8 m
K.B.: 433.31 m

FORMATION	PROGNOSIS (m) TVD	SAMPLE (m) MD	SAMPLE (m) TVD	LOGS (m)	SUBSEA (m)
Muskwa	2856	2862	2856.6	N/A	-2423.69
Slave Point	2889	2896.5	2891.84		-2458.93
Sulphur Point	3018	3105	3017.3		-2584.39

Sample Descriptions

Storage Units: Metric

2,655.00 to 2,660.00 (5.00)	100% CEMENT plug, casing scrapings, etc. trace of SHALE dark gray, fissile, platy
2,660.00 to 2,665.00 (5.00)	70% CEMENT as above
	30% SHALE medium to dark gray, fissile, platy
2,665.00 to 2,670.00 (5.00)	90% SHALE medium to dark gray, fissile, platy, slightly dolomitic in part
	10% CEMENT as above
2,670.00 to 2,680.00 (10.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,680.00 to 2,685.00 (5.00)	100% SHALE medium gray, fissile, platy to blocky
2,685.00 to 2,690.00 (5.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,690.00 to 2,695.00 (5.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,695.00 to 2,700.00 (5.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,700.00 to 2,705.00 (5.00)	100% SHALE medium gym medium to dark gray, fissile, platy to blocky
2,705.00 to 2,710.00 (5.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,710.00 to 2,715.00 (5.00)	100% SHALE medium gray, medium to dark gray, fissile, platy to blocky
2,715.00 to 2,720.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,720.00 to 2,725.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,725.00 to 2,730.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,730.00 to 2,735.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,735.00 to 2,740.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky

Sample Descriptions

Storage Units: Metric

2,745.00 to 2,750.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,750.00 to 2,755.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,755.00 to 2,760.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,760.00 to 2,765.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,765.00 to 2,770.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,770.00 to 2,775.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,775.00 to 2,780.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,780.00 to 2,785.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,785.00 to 2,790.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,790.00 to 2,795.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,795.00 to 2,800.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,800.00 to 2,805.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,805.00 to 2,810.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,810.00 to 2,815.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,815.00 to 2,820.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,820.00 to 2,825.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky
2,825.00 to 2,830.00 (5.00)	100% SHALE dark gray to black, fissile, platy, slickenside in part, minor disseminated pyrite
2,830.00 to 2,835.00 (5.00)	100% SHALE medium to dark gray, dark gray, fissile, platy to blocky, slickenside in part

Sample Descriptions

Storage Units: Metric

2,835.00 to 2,840.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky, minor dark gray slickenside
2,840.00 to 2,845.00 (5.00)	100% SHALE medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,845.00 to 2,850.00 (5.00)	100% SHALE medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,850.00 to 2,855.00 (5.00)	100% SHALE medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,855.00 to 2,860.00 (5.00)	100% SHALE medium to dark gray, fissile, platy to blocky, slickenside in part, common disseminated and nodular pyrite
2,860.00 to 2,865.00 (5.00)	100% SHALE medium to dark gray, dark gray, fissile, predominately platy, slickenside in part, common nodular and disseminated pyrite
2,865.00 to 2,870.00 (5.00)	100% SHALE dark gray, dark gray to black, fissile, platy to blocky, slickenside in part, common nodular and disseminated pyrite
2,870.00 to 2,875.00 (5.00)	100% SHALE dark gray, dark gray to black, fissile, platy to blocky, slickenside in part, common nodular and disseminated pyrite
2,875.00 to 2,880.00 (5.00)	100% SHALE dark gray, dark gray to black, fissile, platy to blocky, common nodular and disseminated pyrite
2,880.00 to 2,885.00 (5.00)	100% SHALE dark gray, dark gray to black, fissile, platy to blocky, minor disseminated pyrite
2,885.00 to 2,890.00 (5.00)	100% SHALE dark gray, dark gray to black, fissile, platy to blocky, minor disseminated pyrite, trace with calcareous laminae
2,890.00 to 2,895.00 (5.00)	50% SHALE as above
	40% LIMESTONE mottled light to medium gray brown, predominately cryptocrystalline mudstone, argillaceous, no visible porosity
	10% DOLOMITE white to translucent, sparry, cryptocrystalline to finely crystalline, mudstone to wackest, no visible porosity

Sample Descriptions

Storage Units: Metric

2,895.00 to 2,900.00 (5.00)	60%	DOLOMITE 40 % mottled light to medium gray, cryptocrystalline to finely crystalline, mudstone to packstone, slightly argillaceous, intercrystalline bitumen infilling, trace of intercrystalline porosity 3-4% DOLOMITE 20% sparry, clean, white to translucent, pearly, lithographic to cryptocrystalline, tight, minor coarse dolomite crystals, clear, drusy, vuggy porosity 6-8%, very low permeability
	20%	LIMESTONE as above
	20%	SHALE as above
2,900.00 to 2,905.00 (5.00)	90%	DOLOMITE 60% mottled light to dark gray, gray white, microcrystalline to finely crystalline, wackestone to packstone, slightly argillaceous, bitumen and argillaceous infilling, no visible porosity, DOLOMITE 30% sparry, clean, white to translucent, pearly, lithographic to cryptocrystalline, tight, trace of coarse clear dolomite crystals, probable vuggy porosity to 8%
	10%	SHALE as above
2,905.00 to 2,910.00 (5.00)	70%	DOLOMITE 40% medium gray, cryptocrystalline to finely crystalline, wackestone to packstone, minor argillaceous infilling, intercrystalline bitumen in part, no visible porosity, DOLOMITE 30% sparry, clean, white to translucent, pearly, trace of clear drusy crystals
	20%	LIMESTONE dark gray brown, cryptocrystalline, slightly argillaceous in part, tight
	10%	SHALE dark gray, slightly calcareous, fissile, platy
2,910.00 to 2,915.00 (5.00)	80%	DOLOMITE 40%, mottled light to dark gray, gray white, microcrystalline to finely crystalline, wackestone to packstone, intercrystalline bitumen in part, no visible porosity, DOLOMITE 40% sparry, white to translucent, clean, lithographic to finely crystalline, trace of drusy dolomite crystals
	20%	SHALE dark gray brown, slightly calcareous, fissile, platy
2,915.00 to 2,920.00 (5.00)	80%	DOLOMITE predominately light gray white to translucent, cryptocrystalline to medium crystalline, wackestone to packstone, common intercrystalline bitumen, no visible porosity
	20%	SHALE dark gray to black, fissile, platy

Sample Descriptions

Storage Units: Metric

2,920.00 to 2,925.00 (5.00)	60% DOLOMITE predominately light gray white to translucent, cryptocrystalline to medium crystalline, wackestone to packstone, common intercrystalline bitumen, no visible porosity
	30% LIMESTONE medium gray brown, mottled light to dark gray brown, cryptocrystalline to microcrystalline, tight
	10% SHALE as above
2,925.00 to 2,930.00 (5.00)	60% DOLOMITE light gray, white to translucent, cryptocrystalline to finely crystalline, wackestone to packstone, intxn bitumen in part, no visible porosity
	30% LIMESTONE medium gray brown, mottled light to dark gray brown, cryptocrystalline to microcrystalline, tight
	10% SHALE dark gray to black, fissile, platy
2,930.00 to 2,935.00 (5.00)	60% DOLOMITE as above
	40% LIMESTONE as above
2,935.00 to 2,940.00 (5.00)	80% LIMESTONE buff to light brown mottled dark, dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity
	20% DOLOMITE as above
2,940.00 to 2,945.00 (5.00)	100% LIMESTONE buff, light brown, medium to dark brown, mottled in part, cryptocrystalline, mudstone, tight
2,945.00 to 2,950.00 (5.00)	100% LIMESTONE light brown, buff, medium to dark brown, mottled in part, cryptocrystalline, mudstone, tight
2,950.00 to 2,955.00 (5.00)	100% LIMESTONE buff, light brown, mottled medium to dark gray brown, cryptocrystalline, mudstone, dolomitic, no visible porosity, minor SHALE, dark brown, calcareous, fissile, platy
2,955.00 to 2,960.00 (5.00)	100% LIMESTONE light brown to buff, mottled medium to dark brown, slightly argillaceous in part, cryptocrystalline, mudstone, slightly dolomitic, tight, minor SHALE dark gray brown laminae

Sample Descriptions

Storage Units: Metric

- 2,960.00 to 2,965.00 100% **LIMESTONE**
(5.00) light gray brown, mottled light to dark gray brown, cryptocrystalline. mudstone, no porosity, minor **SHALE** laminae
- 2,965.00 to 2,970.00 100% **LIMESTONE**
(5.00) predominately mottled light to medium gray brown, dark gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity
- 2,970.00 to 2,975.00 60% **LIMESTONE**
(5.00) as above, dark gray, dark gray brown, argillaceous, cryptocrystalline, trace slickenside, tight
- 40% **SHALE**
dark gray, calcareous to dolomitic, fissile, platy to blocky, slickenside in part
- 2,975.00 to 2,980.00 70% **SHALE**
(5.00) dark gray to black, dark gray brown, calcareous, fissile, platy to blocky, slickenside in part
- 30% **LIMESTONE**
as above
- 2,980.00 to 2,985.00 90% **SHALE**
(5.00) dark gray to black, calcareous, fissile, platy to blocky, slickenside in part
- 10% **LIMESTONE**
as above
- 2,985.00 to 2,990.00 60% **SHALE**
(5.00) as above
- 40% **LIMESTONE**
medium to dark gray brown, mottled light in part, cryptocrystalline, mudstone. argillaceous in part, tight
- 2,990.00 to 2,995.00 90% **LIMESTONE**
(5.00) medium gray brown, mottled light in part, cryptocrystalline, mudstone, tight
- 10% **SHALE**
as above
- 2,995.00 to 3,000.00 90% **LIMESTONE**
(5.00) as above
- 10% **SHALE**
as above
- 3,000.00 to 3,005.00 100% **LIMESTONE**
(5.00) mottled light to medium gray brown, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, argillaceous in part, no porosity, minor **SHALE** laminae

Sample Descriptions

Storage Units: Metric

3,005.00 to 3,010.00 (5.00)	80% LIMESTONE medium to dark gray, minor light to medium gray, cryptocrystalline, mudstone, argillaceous in part, no porosity
	20% SHALE dark gray to black, fissile, platy
3,010.00 to 3,015.00 (5.00)	80% LIMESTONE medium to dark gray brown, mottled light to medium gray brown in part, cryptocrystalline to microcrystalline, predominately mudstone, no visible porosity, trace slickenside
	20% SHALE dark gray to black, fissile, platy
3,015.00 to 3,020.00 (5.00)	80% LIMESTONE as above
	20% SHALE as above
3,020.00 to 3,025.00 (5.00)	90% LIMESTONE medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, minor wackestone, slickenside in part, no porosity
	10% SHALE dark gray to black, fissile, platy
3,025.00 to 3,030.00 (5.00)	100% LIMESTONE medium gray, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, trace slickenside, no porosity, minor SHALE laminae
3,030.00 to 3,035.00 (5.00)	60% LIMESTONE as above
	40% DOLOMITE sparry, white to translucent pearly, clean, lithographic to finely crystalline, trace of intercrystalline bitumen, no visible porosity, minor coarse drusy dolomite crystals, probable vuggy porosity 10-12%
3,035.00 to 3,040.00 (5.00)	80% DOLOMITE light gray to white translucent, pearly, clean, predominately lithographic, minor finely crystalline, trace of intercrystalline bitumen, no visible porosity, minor coarse dolomite crystals, probable vuggy porosity
	20% LIMESTONE as above
3,040.00 to 3,045.00 (5.00)	70% DOLOMITE as above
	30% LIMESTONE medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no porosity

Sample Descriptions

Storage Units: Metric

3,045.00 to 3,050.00 (5.00)	80%	LIMESTONE medium to dark gray brown, predominately cryptocrystalline, mudstone, tight, trace of bitumen
	20%	DOLOMITE light gray to sparry white to translucent, pearly, predominately lithographic, minor finely crystalline, trace of intercrystalline bitumen, trace of drusy dolomite crystals
3,050.00 to 3,055.00 (5.00)	100%	LIMESTONE medium to dark gray brown, medium gray brown, predominately cryptocrystalline, mudstone, tight, minor DOLOMITE as above
3,055.00 to 3,060.00 (5.00)	100%	LIMESTONE medium to dark brown, mottled light, cryptocrystalline, mudstone, no porosity
3,060.00 to 3,065.00 (5.00)	100%	LIMESTONE medium to dark brown, mottled light, cryptocrystalline, mudstone, tight
3,065.00 to 3,070.00 (5.00)	100%	LIMESTONE mottled light to dark brown, dark gray brown in part, cryptocrystalline, mudstone, minor SHALE laminae, dark gray to black, very calcareous, fissile, platy
3,070.00 to 3,075.00 (5.00)	100%	LIMESTONE medium to dark gray brown, cryptocrystalline, mudstone, tight, common cavings
3,075.00 to 3,080.00 (5.00)	100%	LIMESTONE medium to dark gray brown, mottled light in part, cryptocrystalline, mudstone, no porosity, minor SHALE laminae, dark gray to black, fissile, platy, calcareous
3,080.00 to 3,085.00 (5.00)	100%	LIMESTONE mottled light to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, trace of DOLOMITE light gray, pearly translucent lithographic to finely crystalline, minor intercrystalline bitumen, no visible porosity
3,085.00 to 3,090.00 (5.00)	100%	LIMESTONE as above
3,090.00 to 3,095.00 (5.00)	100%	LIMESTONE mottled light to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity
3,095.00 to 3,100.00 (5.00)	100%	LIMESTONE mottled medium to light brown, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no porosity, trace of sparry veining
3,100.00 to 3,108.00 (8.00)	-1%	No Sample Washed away by gas kick.
3,108.00 to 3,110.00 (2.00)	60%	LIMESTONE mottled light to medium gray brown, cryptocrystalline, mudstone, tight, commonly slickenside, trace of probable fossil fragments

Sample Descriptions

Storage Units: Metric

- 3,108.00 to 3,110.00 20% **CHERT**
(2.00) dark gray to black, vitreous lustre, mass to finely crystalline
- 20% **DOLOMITE**
clear, white, translucent, light brown to dark gray black, cryptocrystalline to finely crystalline, trace drusy, mudstone to packstone, trace sucrosic, cherty in part, intercrystalline bitumen in part, minor disseminated pyrite, intercrystalline, vuggy and probable fracture porosity
- 3,110.00 to 3,115.00 90% **LIMESTONE**
(5.00) mottled light to medium gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor DOLOMITE as above
- 10% **CHERT**
dark gray brown to black, clear in part, mass to finely crystalline, vitreous lustre
- 3,115.00 to 3,120.00 90% **LIMESTONE**
(5.00) mottled light to medium gray brown, medium brown, cryptocrystalline to microcrystalline, predominately wackestone, no porosity
- 5% **CHERT**
as above
- 5% **SHALE**
medium gray, fissile, platy slightly calcareous
- 3,120.00 to 3,125.00 80% **LIMESTONE**
(5.00) medium to dark gray brown, medium gray, predominately cryptocrystalline, mudstone, tight, trace of DOLOMITE white to translucent, mass, trace of drusy crystals
- 20% **CHERT**
medium to dark gray brown, white to translucent, vitreous lustre
- 3,125.00 to 3,130.00 100% **LIMESTONE**
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, tight, minor CHERT as above
- 3,130.00 to 3,135.00 100% **LIMESTONE**
(5.00) mottled light to medium, medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, no porosity, common cavings
- 3,135.00 to 3,140.00 100% **LIMESTONE**
(5.00) mottled medium to dark gray brown, mottled light to medium brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor white sparry calcite laminae
- 3,140.00 to 3,145.00 90% **LIMESTONE**
(5.00) medium to dark gray brown, mottled in part, slightly argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity

Sample Descriptions

Storage Units:

Metric

- 3,140.00 to 3,145.00 10% **CHERT**
(5.00) dark gray brown to black, occasional dolomitic crystal inclusions, vitreous lustre, probable fracture at 3148.2m
- 3,145.00 to 3,150.00 100% **LIMESTONE**
(5.00) light, medium, dark gray brown, mottled, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity
- 3,150.00 to 3,155.00 50% **DOLOMITE**
(5.00) sparry, white, minor translucent, trace coarsely crystalline, trace of intercrystalline porosity with argillaceous infilling, probable minor vuggy porosity
- 50% **LIMESTONE**
dark gray, dark gray brown, argillaceous in part, predominately cryptocrystalline, minor microcrystalline, mudstone, cherty in part, tight
- 3,155.00 to 3,160.00 60% **LIMESTONE**
(5.00) dark gray, dark gray brown, argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, tight, trace of chert dark gray to clear, vitreous
- 40% **DOLOMITE**
sparry, white to translucent, pearly, occasional coarsely crystalline, trace of intercrystalline porosity, argillaceous infilling
- 3,160.00 to 3,165.00 50% **DOLOMITE**
(5.00) sparry, white, pearly, minor coarsely crystalline, trace of drusy dolomite crystals, minor vuggy porosity, no permeability.
- 50% **LIMESTONE**
medium gray brown, dark gray brown, mottled in part, predominately cryptocrystalline, minor microcrystalline, mudstone to wackestone, no porosity
- 3,165.00 to 3,170.00 50% **DOLOMITE**
(5.00) as above
- 50% **LIMESTONE**
as above
- 3,170.00 to 3,175.00 70% **LIMESTONE**
(5.00) dark gray, dark gray brown, argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, tight
- 30% **DOLOMITE**
sparry, white, pearly, tight
- 3,175.00 to 3,180.00 70% **DOLOMITE**
(5.00) mottled medium to dark gray brown, clear to light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor DOLOMITE sparry, white to translucent, pearly, tight
- 30% **LIMESTONE**
medium to dark gray brown, cryptocrystalline, mudstone, tight

Sample Descriptions

Storage Units:

Metric

3,180.00 to 3,185.00 (5.00)	70% DOLOMITE as above
	30% LIMESTONE as above
3,185.00 to 3,190.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, calcareous in part, no visible porosity, minor sparry, white to translucent, mass, tight
3,190.00 to 3,195.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no visible porosity, minor sparry dolomite, trace of drusy crystals
3,195.00 to 3,200.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, calcareous in part, tight, minor sparry dolomite veining
3,200.00 to 3,205.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, slightly argillaceous, trace of sparry dolomite
3,205.00 to 3,210.00 (5.00)	100% DOLOMITE mottled dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, minor dark gray SHALE laminae, trace of sparry dolomite
3,210.00 to 3,215.00 (5.00)	100% DOLOMITE medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, trace of intercrystalline porosity, minor sparry white, pearly, trace of clear drusy dolomite crystals, probable scattered vuggy porosity, no apparent permeability
3,215.00 to 3,220.00 (5.00)	100% DOLOMITE as above
3,220.00 to 3,225.00 (5.00)	100% DOLOMITE medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, minor sparry white, pearly, trace of clear drusy dolomite crystals, probable scattered vuggy porosity, no permeability
3,225.00 to 3,230.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor sparry dolomite veining, white to translucent, pearly, trace of CHERT clear prismatic, white, dark gray to black, trace of dis pyrite, possible healed fractures at 3221.5 and 3231.5m
3,230.00 to 3,235.00 (5.00)	100% DOLOMITE as above

Sample Descriptions

Storage Units: Metric

- 3,235.00 to 3,240.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, light brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, sparry dolomite veining
- 3,240.00 to 3,245.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, light brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, common sparry dolomite veining, white to translucent, pearly, probable scattered vuggy porosity, no apparent permeability
- 3,245.00 to 3,250.00 100% **DOLOMITE**
(5.00) mottled light to medium brown, medium to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, common sparry dolomite veining, white to translucent, pearly, no visible porosity
- 3,250.00 to 3,255.00 100% **DOLOMITE**
(5.00) as above, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline, dolomitic cement, scattered intercrystalline bitumen, tight, minor cavings
- 3,255.00 to 3,260.00 100% **DOLOMITE**
(5.00) mottled light to dark gray brown, light to medium gray, cryptocrystalline to microcrystalline, mudstone to wackestone, minor argillaceous laminae, no porosity, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline with scattered intercrystalline bitumen, trace of drusy crystals, probable scattered vug porosity, no apparent permeability
- 3,260.00 to 3,265.00 100% **DOLOMITE**
(5.00) as above
- 3,265.00 to 3,270.00 100% **DOLOMITE**
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity, common sparry dolomite, white to translucent, pearly, trace finely crystalline, tight, trace of clear prismatic chert
- 3,270.00 to 3,275.00 100% **DOLOMITE**
(5.00) as above
- 3,275.00 to 3,280.00 100% **DOLOMITE**
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity, common sparry dolomite, trace of LIMESTONE, light to medium brown, cryptocrystalline, mudstone, tight
- 3,280.00 to 3,285.00 100% **DOLOMITE**
(5.00) as above, trace of chert
- 3,285.00 to 3,290.00 100% **DOLOMITE**
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, minor SHALE laminae, medium gray brown, dolomitic, trace of DOLOMITE light gray, coarsely crystalline, intercrystalline bitumen, no apparent porosity

Sample Descriptions

Storage Units: Metric

3,290.00 to 3,295.00 (5.00)	100% DOLOMITE mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, common sparry dolomite, white to translucent, pearly, tight
3,295.00 to 3,300.00 (5.00)	100% DOLOMITE as above
3,300.00 to 3,305.00 (5.00)	100% DOLOMITE mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no apparent porosity, common sparry dolomite
3,305.00 to 3,310.00 (5.00)	100% DOLOMITE medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white, pearly, tight
3,310.00 to 3,315.00 (5.00)	100% DOLOMITE as above
3,315.00 to 3,320.00 (5.00)	100% DOLOMITE medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, trace of clear prismatic chert
3,320.00 to 3,325.00 (5.00)	100% DOLOMITE as above, trace of LIMESTONE, mottled medium gray brown, cryptocrystalline, mudstone, tight
3,325.00 to 3,330.00 (5.00)	100% DOLOMITE medium to dark gray brown, mottled light to medium in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white, pearly, tight
3,330.00 to 3,335.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light to medium gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of prismatic chert
3,335.00 to 3,340.00 (5.00)	100% DOLOMITE as above
3,340.00 to 3,345.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light to medium in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, tight
3,345.00 to 3,350.00 (5.00)	100% DOLOMITE as above
3,350.00 to 3,355.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite, white to translucent, pearly, tight, trace of SHALE laminae

Sample Descriptions

Storage Units:

Metric

3,355.00 to 3,360.00 (5.00)	100% DOLOMITE as above, trace of SHALE medium gray cavings
3,360.00 to 3,365.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, tight, minor sparry dolomite, trace of cavings, possible fracture porosity 3364.4 to 3464.8.
3,365.00 to 3,370.00 (5.00)	100% DOLOMITE as above
3,370.00 to 3,375.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite, white to translucent, pearly, tight
3,375.00 to 3,380.00 (5.00)	100% DOLOMITE as above
3,380.00 to 3,385.00 (5.00)	100% DOLOMITE medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite
3,385.00 to 3,390.00 (5.00)	100% DOLOMITE as above, trace of DOLOMITE light to dark gray brown, coarsely crystalline, intercrystalline bitumen, trace of disseminated pyrite, trace of chert
3,390.00 to 3,395.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight
3,395.00 to 3,400.00 (5.00)	100% DOLOMITE medium to dark gray brown, mottled in part, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, common sparry dolomite, white to translucent, pearly, tight
3,400.00 to 3,405.00 (5.00)	100% DOLOMITE as above. cherty in part, trace slickenside, trace of prismic chert, trace of coarsely crystalline dolomite with intercrystalline bitumen, probable scattered vuggy porosity
3,405.00 to 3,410.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, common sparry dolomite, trace of coarse dolomite crystals, probable minor vuggy porosity, minor prismatic chert, probable fracture porosity from 3406.6 to 3407.4
3,410.00 to 3,415.00 (5.00)	100% DOLOMITE as above
3,415.00 to 3,420.00 (5.00)	100% DOLOMITE mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline with intercrystalline

Sample Descriptions

Storage Units: Metric

bitumen, tight, trace of clear prismatic chert, probable scattered vuggy porosity

3,420.00 to 3,425.00 100% **DOLOMITE**
(5.00) as above

3,425.00 to 3,430.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of chert, minor SHALE laminae

3,430.00 to 3,435.00 100% **DOLOMITE**
(5.00) as above

3,435.00 to 3,440.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, light to medium gray brown. cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight

3,440.00 to 3,445.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, cryptocrystalline to microcrystalline. mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent. pearly, tight, trace of chert

3,445.00 to 3,450.00 100% **DOLOMITE**
(5.00) as above

3,450.00 to 3,455.00 100% **DOLOMITE**
(5.00) mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of chert

3,455.00 to 3,460.00 90% **DOLOMITE**
(5.00) as above

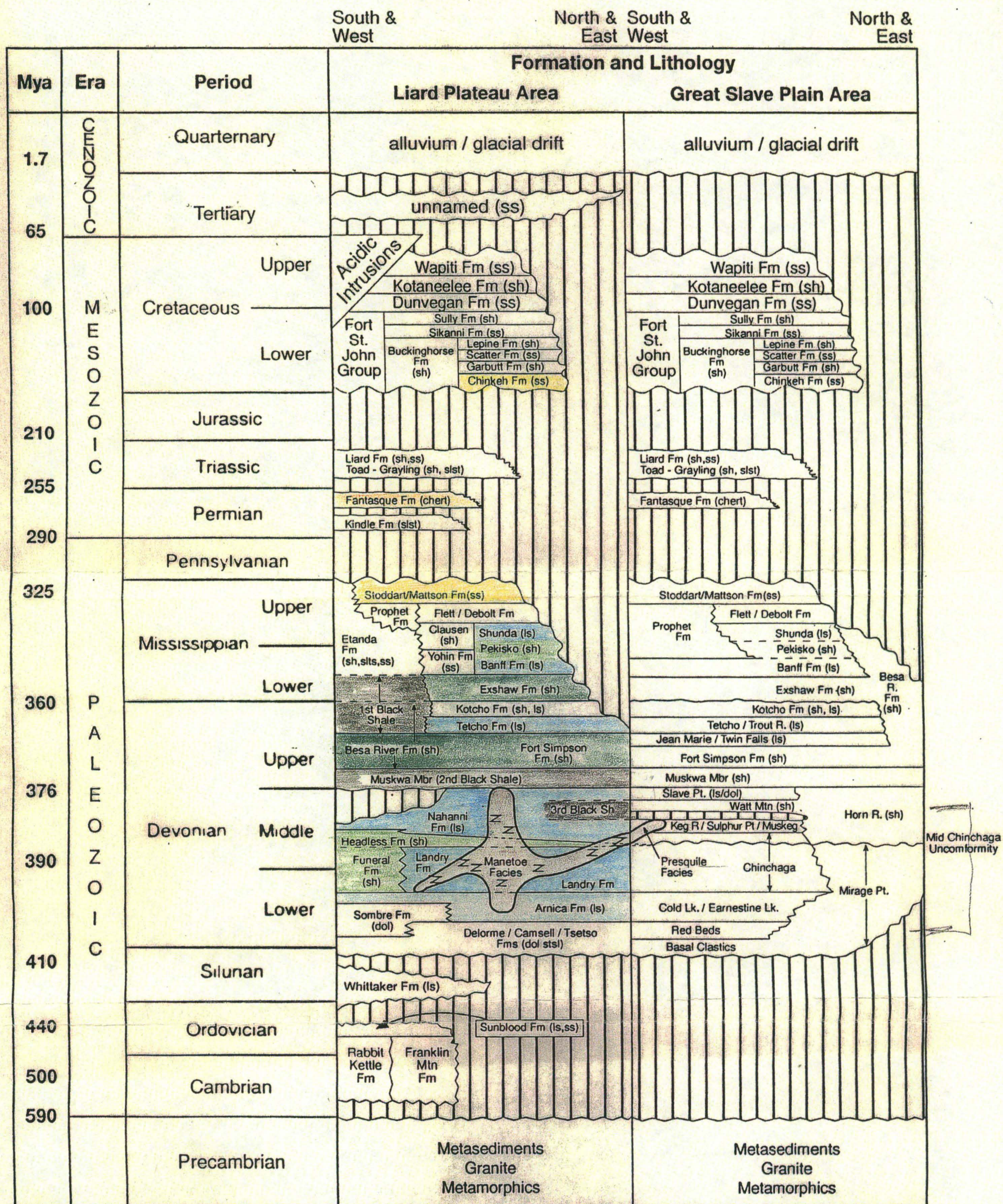
10% **LIMESTONE**
mottled light to medium brown, predominately cryptocrystalline, minor microcrystalline, mudstone, tight

3,460.00 to 3,464.00 70% **DOLOMITE**
(4.00) as above

30% **LIMESTONE**
mottled light to medium brown, prdly cryptocrystalline, mudstone, tight

STRATIGRAPHIC COLUMN

Figure IV-1
Stratigraphic Chart



5. **WELL EVALUATION**

Logs are in pockets at the back of binder

Open Hole Logs:

N/A

Other Logs:

Completion Log / Baker Atlas
Run #1: February 12, 1999
2375 m - 2536 m KB

Synthetic Seismograms:

N/A

Formation Stimulation:

See Attached Treatment Reports

February 14, 1999 - 15% HCl + xylene wash
March 11, 1999 - 15% HCl + xylene wash

Note: Whipstock is open hole completed. Entire interval was acidized.

Formation & Production Tests:

See attached Tri Alta Bews report dated February 16 - March 2, 1999.

See attached Entest report for flow information
February 13 - 16, 1999

FORMATION TESTS

Customer: PARAMOUNT

Well LSD. C76/A

Service Order No. U-2745

Date: 02/13/99

Coiled Tubing Treatment Report

TIME	PRESSURE		DEPTH BEGIN (m)	WEIGHT		DEPTH END (m)	PUMP RATE		DESCRIPTION OPERATIONAL DETAILS
	CTU (MPa)	ANN (MPa)		IN dNa	OUT dNa		FLUID (m3/min)	N2 (m3/min)	
									FEB-09 STANDBY -12HRS
									FEB-10 STANDBY -12HRS
									FEB-11 STANDBY -12HRS
									FEB-12 STANDBY -12HRS
									FEB-13 ARRIVED AND MOVE RIG EQUIPMENT
9:00									SPOT AND RIG UP
11:50									FUNCTION TEST BOPS
13:00									SAFETY MEETING
13:20	14	14							PRESSURE TEST
13:41	10.1	4.1							RIH
13:49	4.1	.8	50				0.06		START PICKLE
14:00	3.1	.2	275	500				10	FINISH PICKLE START N2
14:23	8.2	.1	890	1100	1600	880		10	PULL TEST
15:04	6.4	.2	1800	2500	3800	1790		5	PULL TEST REDUCE N2
15:36	10.3	.1	2620	3600			0.14	5	START FLUID INB COIL
15:49	18.3	.1	2886	4500	5700	2886	0.14	35	PULL TEST INCREASE N2 TAG
15:55	14.7	.2	2866	4500	5600	2886		35	PULL UP, RIH SSTOP FLUID
16:08	14.7	.2	2860	4500	5600	2886		35	PULL UP RIH WORK CT X8
16:19	17.5	.9	2886	4100		2884			STOP N2 WORK CT X5
16:40	9.3	.2	2884	4100	5500	2884	220		START ACID IN TO COIL
16:49	9.1	.4	2886	5600	6700	2880		20	STOP ACID START N2 WORK CT X4
16:57	6.8	.6	2886	5600	6700	2884		10	REDUCE N2 RATE ACID OUT RHE END OF COIL WORK CT X4
17:19	7.5	.2	2886	5500	6500	2884		25	INCREASE N2 WORK CT X6
17:22	7.9	.3	2886		6700	2600		25	POOH
17:42	7.2	.7	2600		6100			15	DECREASE N2
17:59	5.0	.5	2120		5000			0.8	DECREASE N2
18:44	3.1	.5	500		1100				SHUT DOWN N2
19:06	.5								TAG SURFACE CLOSE MASTER
19:06									CHANGE BHA
19:26	10	10	0					25	PRESSURE TEST
19:37	9.4	1	0						RIH OPEN MASTER VALVE
19:48	1	.2	600	900				5	START N2
20:41	1.3	.1	2020	4400				5	PULL TEST
21:03	2	.04	2530	5000	5800	2520		15	PULL TEST AND INCREASE N2
21:32	6.3	.6	2895	5200	5800	2890		15	TAG PULL UP
21:33	6.3	.6	2890	5200	5800	2895		15	TAG PULL UP
21:34	6.3	.6	2890	5200	5800	2895		15	TAG PULL UP
21:40	6.3	.7	2890	5200				15	RIH
21:50	6.3	.7	2895	5300		2980	0.14	5	START FLUID REDUCE N2
21:51	6.1	.7	2895		6700	2975	0.14	5	PULL TEST /GOT THROUGH
21:56	5.4	.7	2980	5400		2980	0.14	5	SIT AND WAIT FOR H2O TO REACH BHA
21:59	5.9	.7	2980	5400		2980	0.14	5	
22:08	7.0	.5	2980	6500			0.14	5	RIH AND H2O AEOC/ WORK
22:50	5.5		3415	5600			0.14	5	START ACID IN TO COIL
22:58	5.8		3464	5500	8600	3464	0.14	5	TAG TD PULL UP
23:05	6.7	.02	3464		8700	3277	0.14	5	ACID TO END OF COIL/ PULL UP
23:20	9.7		3277	5100		3424	0.14	5	RIH TO WASH INTERVAL
23:35	13.3		3424	5500	6200		0.14	5	PULL UP
0:01	13.1		3105	5700	7200	3148	0.14	5	RIH TO WASH INTERVAL

Customer: PARAMOUNT

 Well LSD: C76/A

 Service Order No. U-2745

 Date: 02/13/99
Coiled Tubing Treatment Report

TIME	PRESSURE		DEPTH BEGIN (m)	WEIGHT		DEPTH END (m)	PUMP RATE		DESCRIPTION OPERATIONAL DETAILS
	CTU (MPa)	ANN (MPa)		IN dNa	OUT dNa		FLUID (m3/min)	N2 (m3/min)	
0:05	13.9		3148		6500	2980	0.14	5	PULL UP START H2O
0:15	14		3087	5000		3090	0.14	5	RIH TO WASH INTERVAL
0:25	14		3090		6200	2980	0.14	5	ACID AWAY PULL UP
0:27	12.5		2980	4300	6200		0.14	25	H2O AWAY INCREASE N2
0:34	16.3		2950	3400				25	SIT AND CIRCULATE /BURNABLE GAS
0:45	20	.1	2950					25	RIH RETURNS HEAVY MUD
1:15	28	5	3058		5200			15	DECREASE N2
1:25	28	7	3030						STOP N2 TESTER PLUG
1:30	28	7	2870		4600				BREAK APART TESTER LINE
1:41	28	3	2870	2800	4000			15	START N2 RETURNS TO VESSEL
1:44	27	3	2893	2800				35	INCREASE N2 STILL MUD
1:45	27	4	2896	2500	4200	2895		35	TAGT AOBSRUCTION WORK CT X5
2:00	27	7	2895		3200			25	GAS LITF RETURNS HEAVEY MUD
2:20	25	9	2895		4400			25	PULL UP STEAM TESTERS LINE
2:45	28	13	2700		3800			10	DECREASE N2
3:07	15	9	2500					5	RIH PLUG AT VESSEL
3:14	9	5	2530	3800				20	INCREASE N2 RATE
3:48	7	1	2896	5100		2894		20	TAG PULL UP WORK CT X3
3:52	7	.8	2896	5300				20	RIH
4:07	7.7	.7	3050	5800		3050		30	STOP PIPE INCREASE N2
4:20	9	.8	3050		7300			30	POOH
4:25	9	.7	2950		6900			10	DECREASE N2
5:33	4	.7	500						STOP N2
5:56	1.5	1.3							SURFACE BLEED DOWN
7:00									RIG OUT INJECTOR SECURE BOPS
21:00									ARRIVE ON LOCATION
21:30									RIG IN INJECTOR
22:40									SAFETY MEETING
22:50	12	12							PRESSURE TEST
23:09	9.6	6.1							OPEN MASTER VALVE
23:10	9.5	6.1		-1400					RIH
0:06	.5		1440	2800	3400	1430			PULL TEST
0:08	.4		1440	2800					PRESSURE UP COIL
0:18	8.1	.1	1700	3300		1300			STOP PUMPING N2
0:36	1.4	1.2	2200		5000	2190			PULL TEST
1:26	1.5	.5	2950		6900	2940			PULL TEST
1:28	1.4	.4	2940		6400	2940			STOP PIPE STANDBY ON ZYLENE
2:30	1.2	.8	2940		6700				STILL WAITING ON ZYLENE
3:30	.8	.04	2940						XYLENE ON LOC RIG UP TO PUMPER
3:59	1.2		2940		6900	2940			START XYLENE IN TO COIL
4:10	4.7		2980	6800			330		XYLENE TO END OF COIL
4:11	4.7		2980	7600			200		START SOAK WITH XYLENE
4:20	4.2		3130	7300			200		5.5M3 AWAY
4:29	3.6		3280	7100			200	20	7.0 AWAY START N2
4:43	16		3460		8500	3460	200	20	TAG TD PULL UP
4:44	17.1	.04	3460		8500		200	20	NITRIFIED FLUID OUT END OF COIL
5:11	19	.04	3100		6100			20	XYLENE AWAY ON SURFACE
5:13	13	.1	3070		6200			20	FLUID TO SURFACE THIN MUD
5:25	13	0.07	2920		5800	2920		20	STOP PIPE GAS LIFT
5:27	13	.07	2920		5800	2980		20	XYLENE OUT END OF COIL
6:00	20	.16	2920		4800			20	RECOVERED 3.5M3 OF FLUID
6:22	18	.25	2920	4000				20	RIH



NowSCO Well Services Ltd.

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Customer: PARAMOUNT

Well LSD. C76/A

Service Order No. U-2745

Date: 02/13/99

Coiled Tubing Treatment Report

TIME	PRESSURE		DEPTH BEGIN (m)	WEIGHT		DEPTH END (m)	PUMP RATE		DESCRIPTION OPERATIONAL DETAILS
	CTU (MPa)	ANN (MPa)		IN dNa	OUT dNa		FLUID (m3/min)	N2 (m3/min)	
6:37	12	.9	3080	5300		3080		20	2.5M3 FLUID RETURNED
7:00	8.1	.6	3435	5200				20	4.3M3 FLUID RETURNED
7:04	8	.5	3460			3454		20	TAG TD PULL UP 6M STOP
7:08	8	.5	3454		7500			20	POOH
7:22	7.6	.38	3240		7800			20	15M3 RECOVERED
7:44	5.5	.7	2800		7400			5	DECREAS N2
8:50	.8	.1	600		1800			0	SHUT DOWN N2
10:00	1	.2							SURFACE AND BLEED DOWN
10:30									RIG OFF WELL
12:00									RELEASED
									PUMPED 16M3
									RECOVERED 15M3

Coiled Tubing Treatment Report

TREATMENT		ACID WASH AND SQUEEZE		DATE:		10-Mar-99		SERVICE ORDER #		U3086	
CUSTOMER:		PARAMOUNT		WELL NAME		PARAMOUNT E TAL BOVIE LAKE		LOCATION (LSD):		C76A	
PROVINCE		NWT		MAILING ADDRESS							
FORMATION		NAHANNI		TUBING		88.9MM		2550M		PACKER DEPTH 2535	
CASING		114.3MM		2902M		VOLUMES				TOTAL DEPTH 2464	
MAXIMUM ALLOWABLE PRESSURE: MPa				28		TUBING		28		CASING 28	
WELL TYPE:		☒ NEW		☐ WORKOVER		☐ OIL		☒ GAS		☐ INJECTION	
COMPLETION:		☐ VERTICAL		☐ DEVIATED		☒ HORIZONTAL		☒ H ₂ S %		☐ CO ₂ %	
KICKOFF DEPTH		2652		m		AVERAGE DEVIATION				DEG/100m	
TRUE VERTICAL DEPTH				m		HORIZONTAL LENGTH		2900		3464M m	
OPEN HOLE SIZE		152		mm		SLOTTED LINER		114.3MM		2535-2902	
PERFORATIONS								K.B. HEIGHT		6M	
NIPPLE LOCATIONS		2525		m		2530		m		2535 m	
NIPPLE I.D.		69.85		mm		69.85		mm		57 mm	
SLIDING SLEEVES				m				m			
SLIDING SLEEVES I.D.				mm				mm			
SUB SURFACE SAFETY VALVE I.D.				mm				WELL HEAD FLANGE SIZE		R-35	
PACKER		☐ TENSION		☒ COMPRESSION		TYPE:		CARDIUM "CFP"			
COILED TUBING STRING SIZE (mm)		38.1		WALL THICKNESS (mm)		2.77		LENGTH (m)		4153	
TUBING DEPTH AND RUN (m)		1st RUN				ADDITIONAL RUNS				REEL I.D.# QT16537	
TREATMENT DESCRIPTION: AS PER PROGRAM											
TOOLS RUN:				TREATING FLUID				5.5M3 HCL			
1 M LONG OD OF NO-GO 44.5MM		STRAIGHT BAR				5M3 XYLENE					
		CHECK VALVE									
		NOGO CW CHECK VALVE									
		5 DOWN NOZZLE									
						ADDITIVES					
		CUSTOMER REP.									
		NOWSCO SUPERVISOR				RON KAMM					



NowSCO Well Services Ltd.

Pg.

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Customer: PARAMOUNT

Well LSD. C76A

Service Order No. U3086

Date: 10-Mar-99

Coiled Tubing Treatment Report

TIME	PRESSURE		DEPTH BEGIN (m)	WEIGHT		DEPTH END (m)	PUMP RATE		DESCRIPTION OPERATIONAL DETAILS
	CTU (MPa)	ANN (MPa)		IN dNa	OUT dNa		FLUID (m3/min)	N2 (m3/min)	
09-Mar-99									
16:30									ARRIVE & START RIG IN
17:00									CUT OFF 1M OF COIL
17:30									FUNCTION BOPS; CHANGE STRIPPERS
18:30									LEAVE LOCATION
10-Mar-99									
7:30									ARRIVE & COMPLETE RIG IN
9:15									WAIT ON TESTERS
12:35									SAFETY MEETING
12:48	28	28							PRESSURE TEST TO MANIFOLD
13:22	31	31							PRESSURE TEST WELLHEAD
13:29	28	22							OPEN MASTER VALVE (21 TURNS)
13:32	15	12.6	0	-1000					RIH
13:39	13	9	30	-1000			70		START PICKLE 0.5M3 HCL
13:47	7	2.4	150	-1000			0	15	PICKLE AWAY; START N2
14:12	9.3	0.2	900	1100	1800	890	0	15	PULL TEST
14:48	8	0.1	2000	3400	4100	1990	0	15	PULL TEST
15:14	6.4	0.02	2770	3100	4340	2760	0.1	15	PULL TEST
16:00	7.2	0.02	3455	5000	7000	3445	0.1	15	START ACID INTO COIL; PULL TEST
16:05	12	0.01	3455				0.1	15	TAG TD & CIRCULATE ACID TO END OF COIL
16:15	13.4	0.01	3455		8500		0.1	15	ACID @ EOC; WORK CTU
16:46	14	0.2	3170		8900		0.1	15	ACID OFF SURFACE; START XYLENE
17:01	12.3	0.2	2902	6100			0.1	15	REQUIRED DEPTH; RIH
17:32	11	0.01	3350	6200			0	25	XYLENE OFF SURFACE; DISPLACE N2
17:44	10.5	0.01	3455	6200			0	40	TAG TD; INCREASE N2
18:00	15	0.9	3455		8900		0	40	POOH
18:45	12.1	1.5	2520		6100		0	20	DECREASE N2
19:27	5	0.7	1000		2500			0	STOP N2
19:40	3	0.1	500						START NEUTRALIZER INTO COIL
19:56	2	0.01	100					20	STOP NEUTRALIZER; START N2
20:01									SURFACE; PURGE REEL
20:30									RIG OUT INJECTOR
21:00									LEAVE LOCATION
									PUMPED 12.6M3 FLUID; RECOVERED 14.75M3
11-Mar-99									
8:00									ARRIVE & RIG IN FLUID PUMPER
9:15									SAFETY MEETING
9:25		35							PRESSURE TEST (35MPA)
9:35		3					1.1		START ACID
9:51		0.6					1.1		ACID AWAY ON SURFACE (16M3)
9:51		3.3					0.8		START WATER
10:03		26					0.55		H2O AWAY ON SURFACE (8M3)
10:04		26					0.55		START ACID SQUEEZE
10:33		28					0.55		H2O AWAY ON SURFACE (24.6M3)
10:56		19					0		OPEN WING PRESSURE TEST TESTERS
11:04		19							FLOW BACK 4.92M3
11:10		0							SHUT MASTER; RIG UP CTU
11:29	0	0	1						START N2 FOR PRESSURE TEST
11:37	10	10	1						PRESSURE TEST TO WING
11:42	9.2	3.6	1						OPEN MASTER RIH

Owner: PARAMOUNT

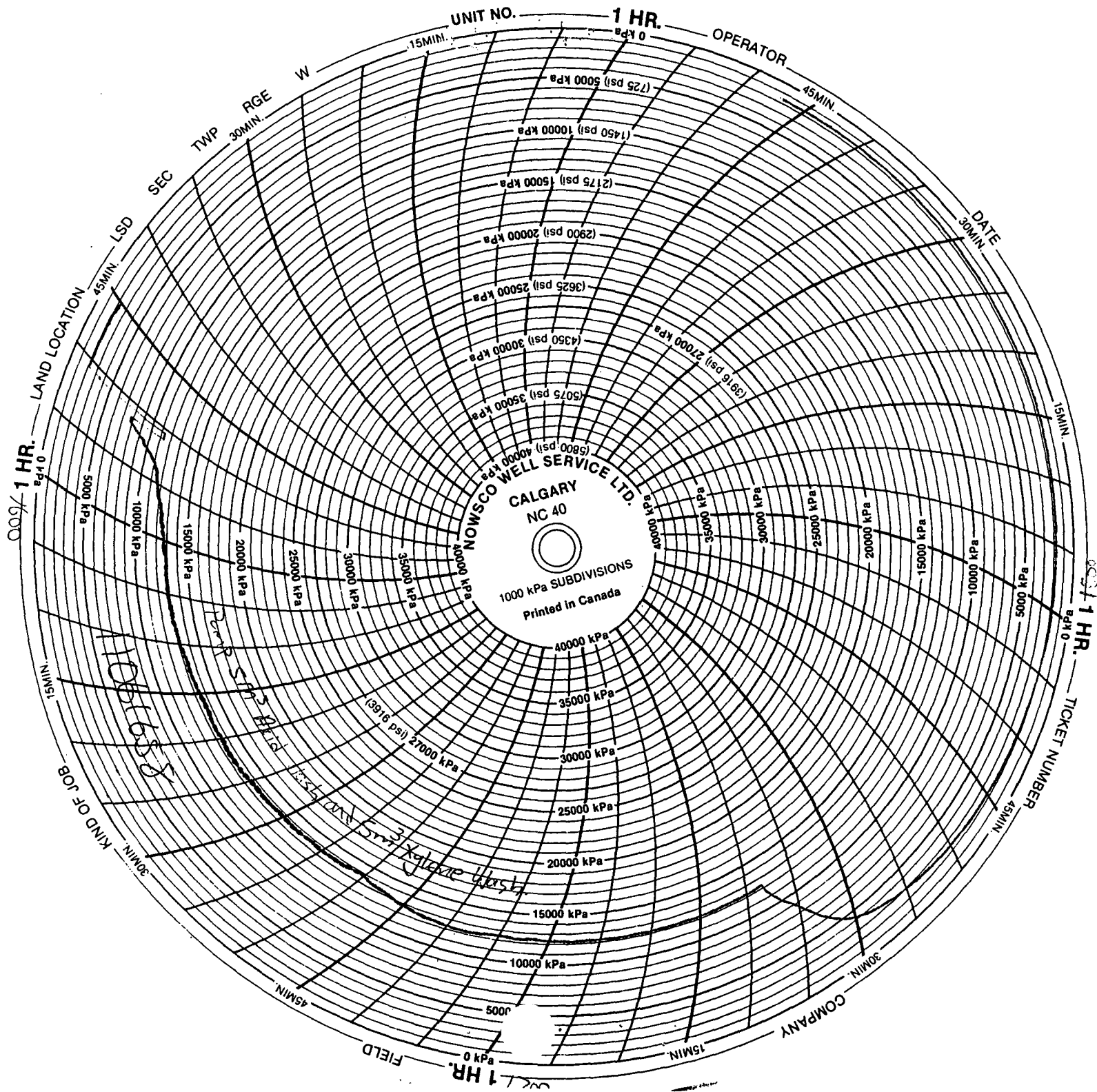
Well LSD. C76A

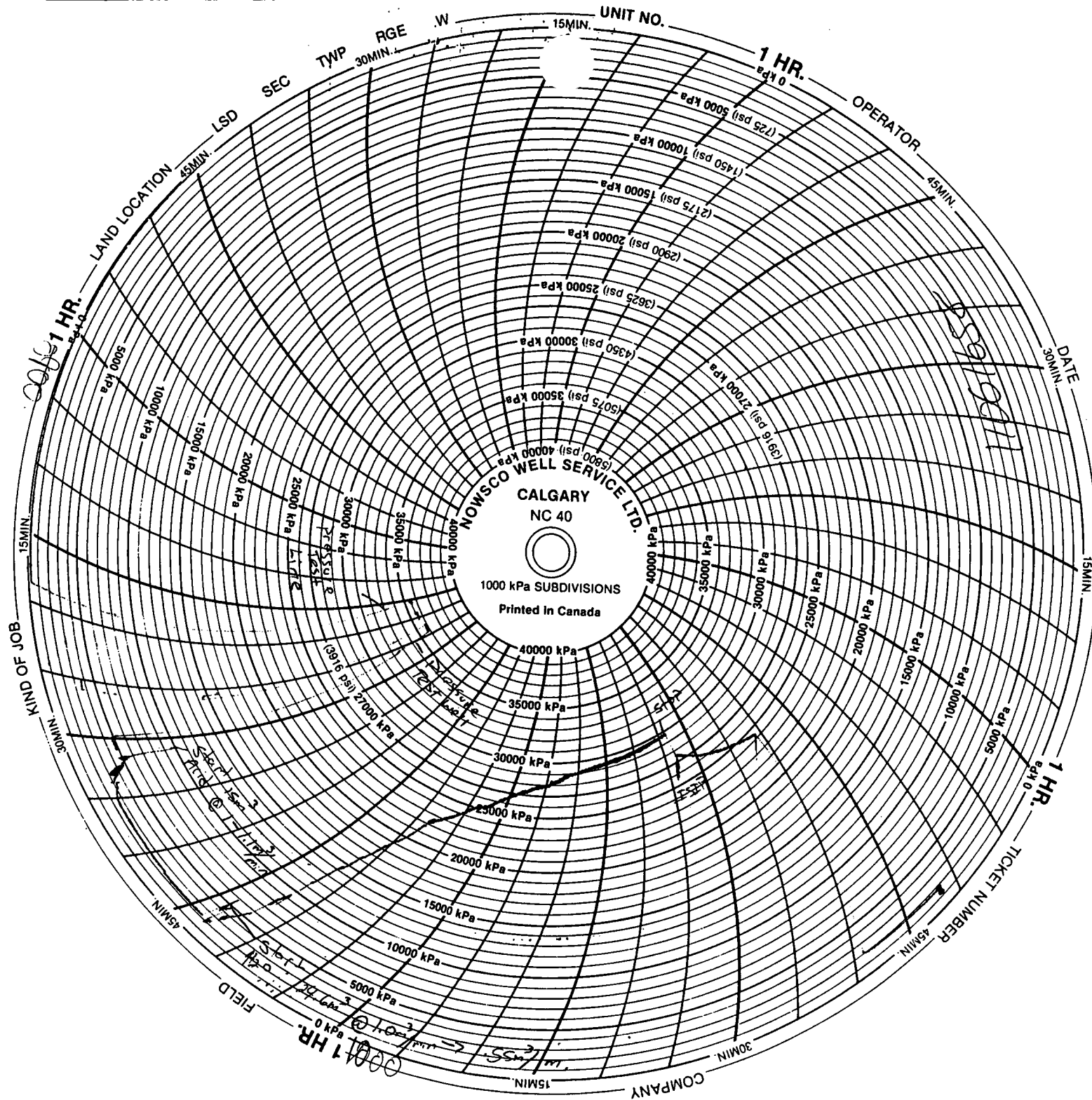
Service Order No. U3086

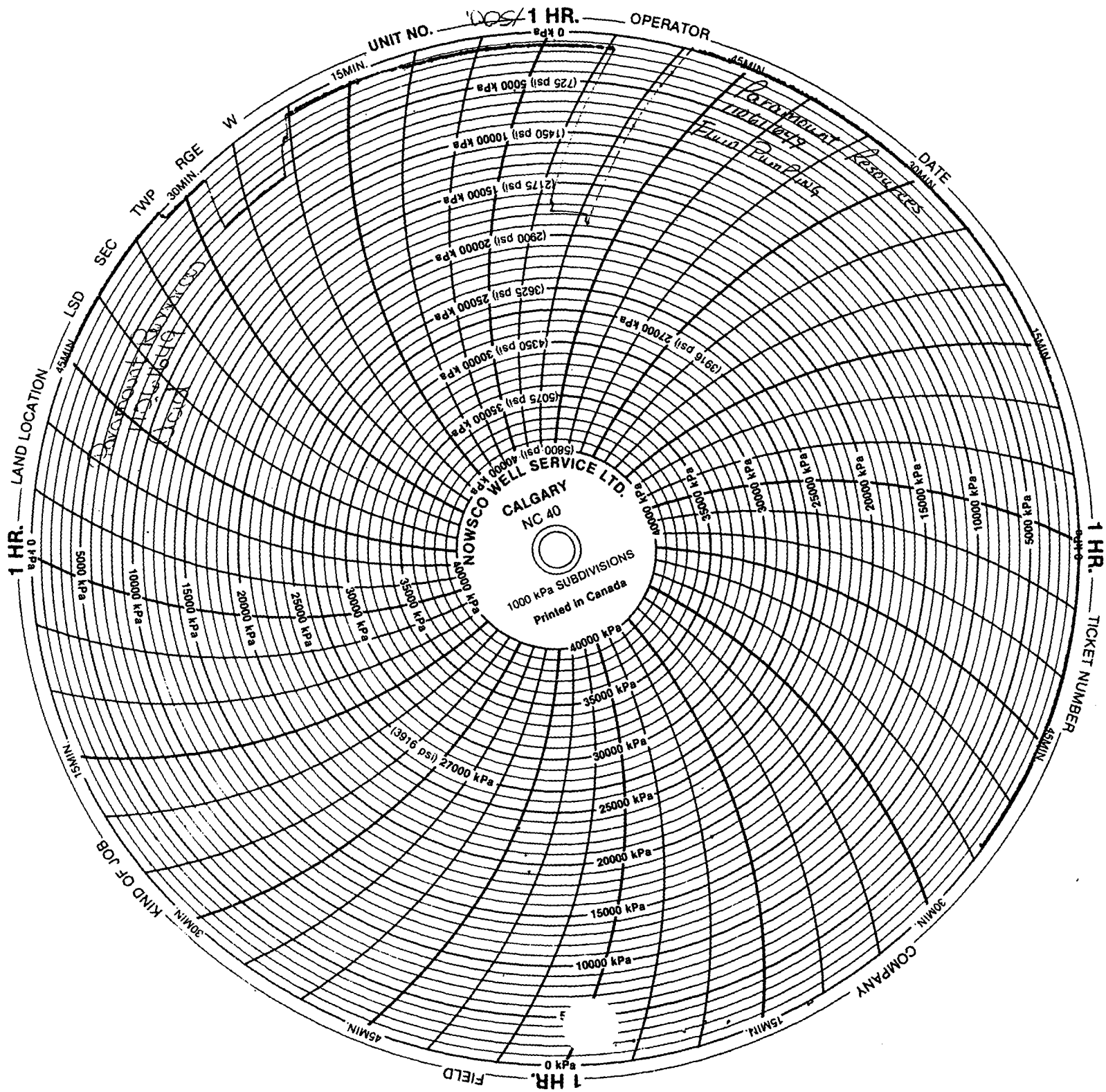
Date: 10-Mar-99

Coiled Tubing Treatment Report

TIME	PRESSURE		DEPTH BEGIN (m)	WEIGHT		DEPTH END (m)	PUMP RATE		DESCRIPTION OPERATIONAL DETAILS
	CTU (MPa)	ANN (MPa)		IN dNa	OUT dNa		FLUID (m3/min)	N2 (m3/min)	
11:51	3.2	0.7	130					20	START N2
12:16	8.4	1.3	1000	1800	2600	990	0	20	PULL TEST
12:22	8.7	0.5	1187	2100				30	INCREASE N2
12:51	11	1	2200	4000	5000	2190		30	PULL TEST
13:18	12.6	0.8	2930	5500				40	INCREASE N2
13:46	16	1.6	3455	5000				40	TAG TD
14:06	15.1	2	3455		7360			40	CYCLE PIPE
14:55	13	0.8	3160		8000			30	SLOW N2 RATE
15:30	8	0.7	2900		6700			30	STOP
15:36	6.7	0.5	2900		6800			0	SHUT DOWN N2; LET WELL LOAD UP
17:10	1.6	0	2900					30	START N2
17:21	5.8	0	2900	5000				30	RIH
17:55	7	0.2	3455	5700				40	AT TD GAS LIFT; INCREASE N2
19:15	12.4	0.9	3454		8000			30	POOH
19:55	11	0.4	2540		5500				STOP N2
									SURFACE; RIG OUT
									RELEASED
									PUMPED 40M3 OF FLUID; RETURNED 36.32M3







Company: PARAMOUNT RESOURCES LTD.
Well name: PARAMOUNT ET AL BOUIE
Location: C-76
Date of test: 1999 02 16 - 03 02
Test by TRI-ALTA BEWS SERVICES
Interp. by Cal-Scan Services Ltd.

TRI-ALTA BEWS SERVICES

SUMMARY

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 02 16 - 03 02

Well name: PARAMOUNT ET AL BOUIE
Location: C-76

FEB 16-17:27
RECORDER STOP

ON BOTTOM
OFF BOTTOM

Remarks:

BOTH RECORDERS STOPPED EARLY.
BOTH RECORDERS WERE STAIR STEPPING DURING BUILD UP.

Interpretation by CAL-SCAN SERVICES LTD.

TRI-ALTA BEWS SERVICES

Subsurface Pressure Measurements

Company: PARAMOUNT RESOURCES LTD.
Address: CALGARY, ALBERTA
Field & Pool: BOUIE
Type of test: BUILD-UP
Prod. Int CF: to
Elev. (CF) (KB)
Pool datum:

Well name: PARAMOUNT ET AL BOUIE
Location: C-76
Status: GAS
Date of test: 1999 02 16 - 03 02
Prod. through: 88.9MM
Mid-point prod.int. CF:
Datum depth of well CF:

Tubing pres: 7060
Casing pres: 2000
Temperature at run depth: 128.0

Shut in time:
On/off btm: 27-03 02-20:50
Surface temperature:

Note: All units in metric, depth in meters cf; pressure in KPAG

TOP RECORDER

Element serial#: 51956
Pressure Range: 0 to 34474
Cal. equation: 707.2 * DEFL +28.0
Latest calibration: 10-22-98
Clock range: 360 HOUR
Run depth (CF): 2526.2

BOTTOM RECORDER

Element serial#: 51957
Pressure range: 0 to 34474
Cal. equation: 697.1 * DEFL +58.6
Latest calibration: 10-22-98
Clock range: 360 HOUR
Run depth (CF): 2528

TOP RECORDER

BOTTOM RECORDER

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
FEB 16-17:27	0.00	12.665	9006.0		12.785	9006.5	
ON BOTTOM	0.25	12.670	9009.5		12.830	9037.9	
17:57	0.50	12.715	9041.3		12.880	9072.7	
18:12	0.75	12.765	9076.6		12.915	9097.1	
18:27	1.00	12.955	9210.7		12.960	9128.5	
18:42	1.25	13.570	9645.0		13.035	9180.8	
18:57	1.50	13.615	9676.7		13.110	9233.0	
19:12	1.75	13.615	9676.7		13.165	9271.4	
19:27	2.00	13.635	9690.8		13.240	9323.6	
19:42	2.25	13.650	9701.4		13.345	9396.8	
19:57	2.50	13.900	9878.0		13.435	9459.5	
20:12	2.75	13.985	9938.0		13.500	9504.8	
20:27	3.00	14.010	9955.6		13.560	9546.6	
20:42	3.25	14.040	9976.8		13.665	9619.8	
20:57	3.50	14.050	9983.9		13.730	9665.1	
21:12	3.75	14.340	10188.6		13.815	9724.4	
21:27	4.00	14.365	10206.3		13.875	9766.2	
21:42	4.25	14.370	10209.8		13.940	9811.5	
21:57	4.50	14.395	10227.5		14.015	9863.8	
22:12	4.75	14.635	10396.9		14.090	9916.0	
22:27	5.00	14.660	10414.6		14.185	9982.2	
22:42	5.25	14.670	10421.6		14.235	10017.1	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 02 16 - 03 02

Well name: PARAMOUNT ET AL BOUIE
Location: C-76

TOP RECORDER
Element serial#: 51956
Run Depth (CF): 2526.2

BOTTOM RECORDER
Element serial#: 51957
Run depth (CF): 2528

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
22:57	5.50	14.680	10428.7		14.320	10076.3	
23:12	5.75	14.870	10562.8		14.390	10125.1	
23:27	6.00	14.940	10612.3		14.445	10163.4	
23:42	6.25	14.955	10622.9		14.505	10205.3	
23:57	6.50	14.955	10622.9		14.610	10278.4	
00:12	6.75	14.975	10637.0		14.695	10337.7	
00:27	7.00	15.220	10810.0		14.775	10393.4	
00:42	7.25	15.255	10834.7		14.835	10435.2	
00:57	7.50	15.270	10845.3		14.900	10480.5	
01:12	7.75	15.285	10855.9		14.980	10536.3	
01:27	8.00	15.295	10862.9		15.075	10602.5	
01:42	8.25	15.525	11025.3		15.135	10644.3	
01:57	8.50	15.545	11039.4		15.190	10682.7	
02:12	8.75	15.565	11053.6		15.280	10745.4	
02:27	9.00	15.780	11205.4		15.335	10783.7	
02:42	9.25	15.820	11233.6		15.435	10853.4	
02:57	9.50	15.835	11244.2		15.500	10898.7	
03:12	9.75	15.920	11304.2		15.595	10964.9	
03:27	10.00	15.980	11346.6		15.640	10996.3	
03:42	10.25	16.020	11374.8		15.725	11055.5	
03:57	10.50	16.105	11434.8		15.805	11111.3	
04:12	10.75	16.175	11484.3		15.885	11167.0	
04:27	11.00	16.230	11523.1		15.955	11215.8	
04:42	11.25	16.300	11572.5		16.015	11257.6	
04:57	11.50	16.415	11653.7		16.100	11316.9	
05:12	11.75	16.485	11703.2		16.175	11369.1	
05:27	12.00	16.545	11745.5		16.235	11411.0	
05:57	12.50	16.670	11833.8		16.355	11494.6	
06:27	13.00	16.845	11957.3		16.495	11592.2	
06:57	13.50	16.950	12031.5		16.645	11696.7	
07:27	14.00	17.080	12123.3		16.785	11794.3	
07:57	14.50	17.215	12218.6		16.900	11874.4	
08:27	15.00	17.330	12299.8		17.050	11979.0	
08:57	15.50	17.465	12395.1		17.195	12080.0	
09:27	16.00	17.605	12494.0		17.355	12191.5	
09:57	16.50	17.755	12599.9		17.475	12275.2	
10:27	17.00	17.890	12695.2		17.620	12376.2	
10:57	17.50	18.015	12783.4		17.770	12480.8	
11:27	18.00	18.110	12850.5		17.880	12557.4	
11:57	18.50	18.265	12960.0		18.030	12662.0	
12:27	19.00	18.425	13072.9		18.170	12759.5	
12:57	19.50	18.505	13129.4		18.310	12857.1	
13:27	20.00	18.690	13260.0		18.450	12954.7	
13:57	20.50	18.810	13344.8		18.560	13031.3	
14:27	21.00	18.975	13461.3		18.680	13115.0	
14:57	21.50	19.085	13538.9		18.845	13230.0	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 02 16 - 03 02

Well name: PARAMOUNT ET AL BOUIE
Location: C-76

TOP RECORDER
Element serial#: 51956
Run Depth (CF): 2526.2

BOTTOM RECORDER
Element serial#: 51957
Run depth (CF): 2528

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
15:27	22.00	19.205	13623.7		18.960	13310.1	
15:57	22.50	19.320	13704.9		19.110	13414.6	
16:27	23.00	19.405	13764.9		19.250	13512.2	
16:57	23.50	19.570	13881.3		19.365	13592.4	
17:27	24.00	19.680	13959.0		19.505	13689.9	
17:57	24.50	19.820	14057.7		19.615	13766.6	
18:27	25.00	19.945	14145.9		19.730	13846.6	
18:57	25.50	20.010	14191.8		19.890	13957.9	
19:27	26.00	20.150	14290.6		20.030	14055.3	
19:57	26.50	20.290	14389.4		20.115	14114.4	
20:27	27.00	20.440	14495.2		20.230	14194.4	
20:57	27.50	20.635	14632.8		20.380	14298.8	
21:27	28.00	20.680	14664.6		20.495	14378.8	
21:57	28.50	20.865	14795.1		20.635	14476.2	
22:27	29.00	20.940	14848.1		20.755	14559.6	
22:57	29.50	21.030	14911.6		20.880	14646.6	
23:27	30.00	21.205	15035.1		20.980	14716.1	
23:57	30.50	21.220	15045.6		21.120	14813.5	
00:27	31.00	21.470	15222.0		21.265	14914.4	
00:57	31.50	21.515	15253.8		21.395	15004.8	
01:27	32.00	21.700	15384.3		21.495	15074.4	
01:57	32.50	21.815	15465.5		21.625	15164.8	
02:27	33.00	21.945	15557.2		21.745	15248.3	
02:57	33.50	22.055	15634.8		21.870	15335.2	
03:27	34.00	22.145	15698.4		21.985	15415.2	
03:57	34.50	22.250	15772.4		22.070	15474.3	
04:27	35.00	22.390	15871.2		22.225	15582.2	
04:57	35.50	22.495	15945.3		22.330	15655.2	
05:27	36.00	22.610	16026.5		22.465	15749.1	
06:27	37.00	22.820	16174.7		22.655	15881.3	
07:27	38.00	23.065	16347.5		22.900	16051.7	
08:27	39.00	23.240	16471.0		23.140	16218.6	
09:27	40.00	23.505	16658.0		23.385	16389.1	
10:27	41.00	23.690	16788.6		23.580	16524.7	
11:27	42.00	23.945	16968.5		23.840	16705.6	
12:27	43.00	24.175	17130.8		24.070	16865.5	
13:27	44.00	24.415	17300.2		24.305	17029.0	
14:27	45.00	24.630	17451.9		24.525	17182.0	
15:27	46.00	24.835	17596.5		24.755	17342.0	
16:27	47.00	25.085	17772.9		24.975	17495.1	
17:27	48.00	25.295	17921.1		25.220	17665.5	
18:27	49.00	25.490	18058.7		25.430	17811.6	
19:27	50.00	25.745	18238.7		25.675	17982.0	
20:27	51.00	25.980	18404.5		25.870	18117.6	
21:27	52.00	26.195	18556.2		26.080	18263.7	
22:27	53.00	26.400	18700.8		26.335	18441.1	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 02 16 - 03 02

Well name: PARAMOUNT ET AL BOUIE
Location: C-76

TOP RECORDER
Element serial#: 51956
Run Depth (CF): 2526.2

BOTTOM RECORDER
Element serial#: 51957
Run depth (CF): 2528

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
23:27	54.00	26.600	18842.0		26.525	18573.3	
00:27	55.00	26.805	18986.6		26.745	18726.3	
01:27	56.00	27.035	19148.9		26.945	18865.4	
02:27	57.00	27.270	19314.8		27.170	19021.9	
03:27	58.00	27.450	19441.8		27.340	19140.2	
04:27	59.00	27.680	19604.1		27.550	19286.2	
05:27	60.00	27.875	19741.7		27.780	19446.2	
06:27	61.00	28.040	19858.1		27.995	19595.8	
07:27	62.00	28.230	19992.2		28.170	19717.5	
08:27	63.00	28.410	20119.2		28.380	19863.6	
09:27	64.00	28.600	20253.3		28.590	20009.7	
10:27	65.00	28.770	20373.2		28.810	20162.7	
11:27	66.00	29.020	20549.6		29.000	20294.9	
12:27	67.00	29.180	20662.5		29.165	20409.6	
13:27	68.00	29.390	20811.0		29.360	20545.3	
14:27	69.00	29.525	20906.4		29.570	20691.4	
15:27	70.00	29.745	21062.0		29.790	20844.3	
16:27	71.00	29.925	21189.3		29.990	20983.3	
17:27	72.00	30.120	21327.1		30.145	21091.0	
18:27	73.00	30.295	21450.9		30.335	21223.1	
19:27	74.00	30.475	21578.2		30.510	21344.7	
20:27	75.00	30.640	21694.8		30.715	21487.2	
21:27	76.00	30.835	21832.7		30.880	21601.9	
22:27	77.00	30.990	21942.3		31.085	21744.3	
23:27	78.00	31.155	22059.0		31.225	21841.6	
00:27	79.00	31.335	22186.3		31.400	21963.3	
01:27	80.00	31.505	22306.5		31.575	22084.9	
02:27	81.00	31.665	22419.6		31.730	22192.6	
03:27	82.00	31.840	22543.3		31.900	22310.8	
04:27	83.00	32.000	22656.5		32.080	22435.9	
05:27	84.00	32.165	22773.1		32.250	22554.1	
06:27	85.00	32.320	22882.7		32.405	22661.8	
07:27	86.00	32.465	22985.3		32.565	22773.0	
08:27	87.00	32.600	23080.7		32.740	22894.6	
09:27	88.00	32.770	23200.9		32.880	22991.9	
10:27	89.00	32.915	23303.4		33.045	23106.6	
11:27	90.00	33.060	23406.0		33.170	23193.5	
12:27	91.00	33.180	23490.8		33.350	23318.6	
13:27	92.00	33.330	23596.9		33.490	23415.9	
14:27	93.00	33.470	23695.9		33.660	23534.1	
15:27	94.00	33.615	23798.4		33.870	23680.0	
16:27	95.00	33.740	23886.8		34.000	23770.4	
17:27	96.00	33.875	23982.3		34.110	23846.8	
19:27	98.00	34.140	24169.6		34.330	23999.7	
21:27	100.00	34.405	24357.0		34.605	24190.9	
23:27	102.00	34.655	24533.8		34.880	24382.0	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 02 16 - 03 02

Well name: PARAMOUNT ET AL BOUIE
Location: C-76

TOP RECORDER
Element serial#: 51956
Run Depth (CF): 2526.2

BOTTOM RECORDER
Element serial#: 51957
Run depth (CF): 2528

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
01:27	104.00	34.870	24685.8		35.105	24538.4	
03:27	106.00	35.105	24852.0		35.375	24726.1	
05:27	108.00	35.345	25021.7		35.815	25031.9	
07:27	110.00	35.555	25170.2		35.955	25129.2	
09:27	112.00	35.785	25332.8		36.095	25226.5	
11:27	114.00	35.985	25474.2		36.285	25358.5	
13:27	116.00	36.160	25597.9		36.525	25525.4	
15:27	118.00	36.340	25725.2		36.740	25674.8	
17:27	120.00	36.500	25838.4		36.865	25761.7	
19:27	122.00	36.675	25962.1		0.000	0.0	
21:27	124.00	36.850	26085.8		0.000	0.0	
23:27	126.00	37.000	26191.9		0.000	0.0	
01:27	128.00	37.140	26290.9		0.000	0.0	
03:27	130.00	37.300	26404.0		0.000	0.0	
05:27	132.00	37.445	26506.5		0.000	0.0	
07:27	134.00	37.565	26591.4		0.000	0.0	
09:27	136.00	37.675	26669.2		0.000	0.0	
11:27	138.00	37.775	26739.9		0.000	0.0	
13:27	140.00	37.875	26810.6		0.000	0.0	
15:27	142.00	37.965	26874.2		0.000	0.0	
17:27	144.00	38.070	26948.5		0.000	0.0	
19:27	146.00	38.190	27033.3		0.000	0.0	
21:27	148.00	38.260	27082.8		0.000	0.0	
23:27	150.00	38.380	27167.7		0.000	0.0	
01:27	152.00	38.450	27217.2		0.000	0.0	
03:27	154.00	38.545	27284.3		0.000	0.0	
05:27	156.00	38.625	27340.9		0.000	0.0	
07:27	158.00	38.690	27386.9		0.000	0.0	
09:27	160.00	38.750	27429.3		0.000	0.0	
11:27	162.00	38.810	27471.7		0.000	0.0	
13:27	164.00	38.885	27524.8		0.000	0.0	
15:27	166.00	38.945	27567.2		0.000	0.0	
17:27	168.00	39.010	27613.1		0.000	0.0	
19:27	170.00	39.060	27648.4		0.000	0.0	
21:27	172.00	39.125	27694.3		0.000	0.0	
23:27	174.00	39.165	27722.6		0.000	0.0	
01:27	176.00	39.205	27750.8		0.000	0.0	
03:27	178.00	39.250	27782.6		0.000	0.0	
05:27	180.00	39.300	27817.9		0.000	0.0	
07:27	182.00	39.340	27846.2		0.000	0.0	
09:27	184.00	39.385	27878.0		0.000	0.0	
11:27	186.00	39.425	27906.2		0.000	0.0	
13:27	188.00	39.450	27923.9		0.000	0.0	
15:27	190.00	39.490	27952.2		0.000	0.0	
17:27	192.00	39.525	27976.9		0.000	0.0	
RECORDER STOP	0.00	39.535	27983.9		0.000	0.0	
OFF BOTTOM	0.00	39.535	27983.9		0.000	0.0	

EXTENDED TEST

Company: PARAMOUNT RESOURCES LTD.

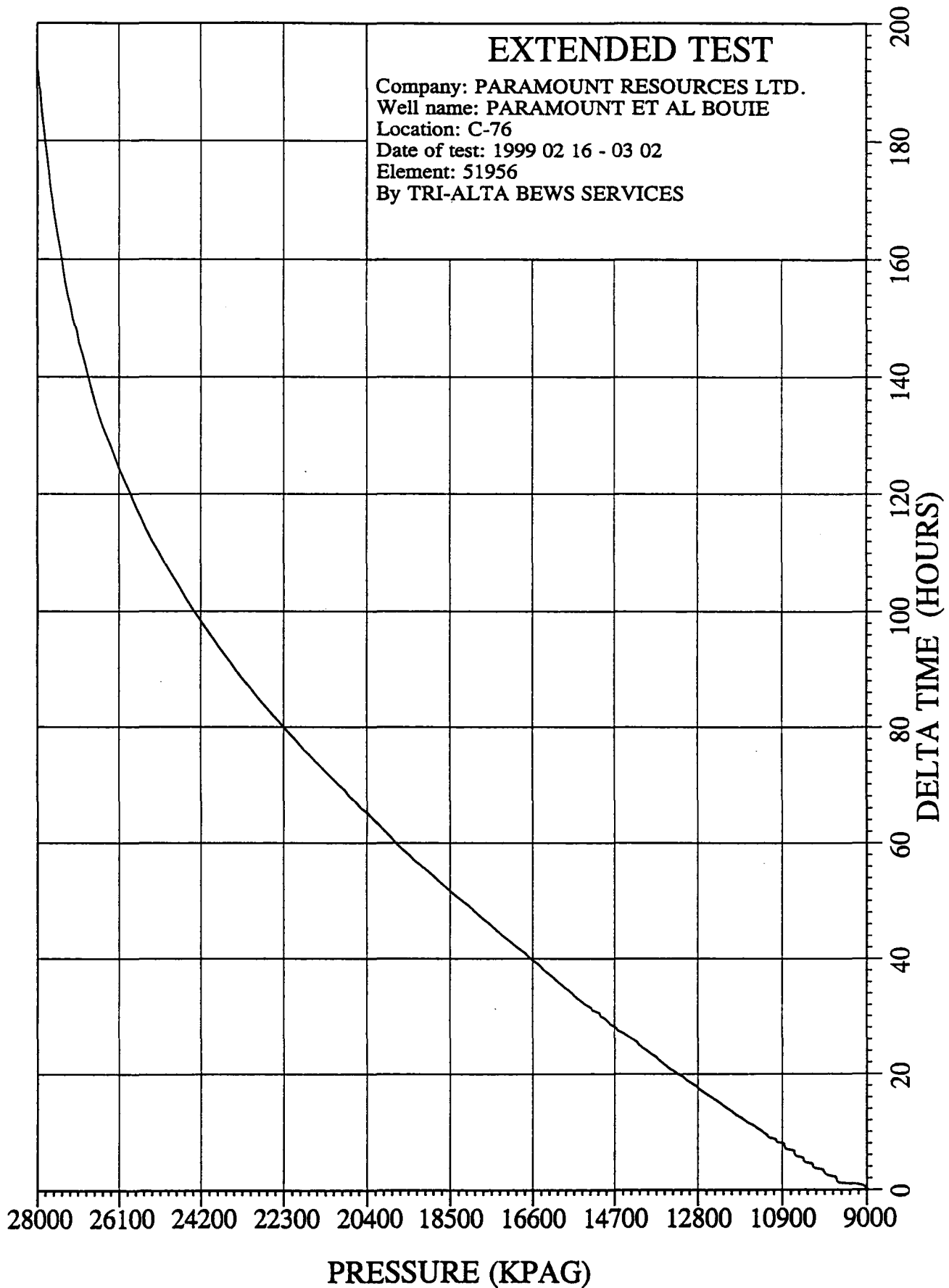
Well name: PARAMOUNT ET AL BOUE

Location: C-76

Date of test: 1999 02 16 - 03 02

Element: 51956

By TRI-ALTA BEWS SERVICES



TRI-ALTA BEWS SERVICES

Subsurface Pressure Measurements

Company: PARAMOUNT RESOURCES LTD.
Address: CALGARY, ALBERTA
Field & Pool: BOUIE
Type of test: STATIC GRADIENT
Prod. Int CF: to
Elev. (CF) (KB)
Pool datum:

Well name: PARAMOUNT ET AL BOUIE
Location: C-76
Status: GAS
Date of test: 1999 03 02
Prod. through: 88.9MM
Mid-point prod.int. CF:
Datum depth of well CF:

Tubing pres: 22920
Casing pres: 250
Temperature at run depth: 128.0

Shut in time:
On bottom/off bottom: 2253:00 - 2259:0
Surface temperature:

Note: All units in metric, depth in meters cf; pressure in KPAG

TOP RECORDER

Element serial#: 51956
Pressure Range: 0 to 34474
Cal. equation: 707.2 * DEFL +28.0
Latest calibration: 10-22-98
Clock range: 3 HOUR

Run depth (CF): 2526.2
Grad. at run depth: 0.942
Pres. at run depth: 28248.8
Pres. at mid point perf.:
Pres. at datum depth:

Depth m	Defl mm	Pressure KPAG	Gradient KPAG/m
-1.8	32.090	22720.1	
-1.8	31.940	22614.0	
498.2	33.850	23964.6	2.701
998.2	35.720	25286.8	2.645
1498.2	37.400	26474.7	2.376
1998.2	38.750	27429.3	1.909
2466.2	39.830	28192.3	1.630
2496.2	39.870	28220.6	0.942
2526.2	39.910	28248.8	0.942

Fluid level at NONE

Remarks:

BOTTOM RECORDER

Element serial#: 51957
Pressure range: 0 to 34474
Cal. equation: 697.1 * DEFL +58.6
Latest calibration: 10-22-98
Clock range: 3 HOUR

Run depth (CF): 2528
Grad. at run depth: 1.156
Pres. at run depth: 28321.4
Pres. at mid point perf.:
Pres. at datum depth:

Depth m	Defl mm	Pressure KPAG	Gradient KPAG/m
0.0	32.480	22713.9	
0.0	32.350	22623.6	
500.0	34.270	23958.0	2.669
1000.0	36.190	25292.5	2.669
1500.0	37.900	26481.0	2.377
2000.0	39.270	27433.2	1.904
2468.0	40.440	28245.1	1.735
2498.0	40.500	28286.7	1.387
2528.0	40.550	28321.4	1.156

Fluid level at NONE

Test by: MILT

Interpretation by CAL-SCAN SERVICES LTD.

GRADIENT TEST

Company: PARAMOUNT RESOURCES LTD.

Well name: PARAMOUNT ET AL BOUIE

Location: C-76

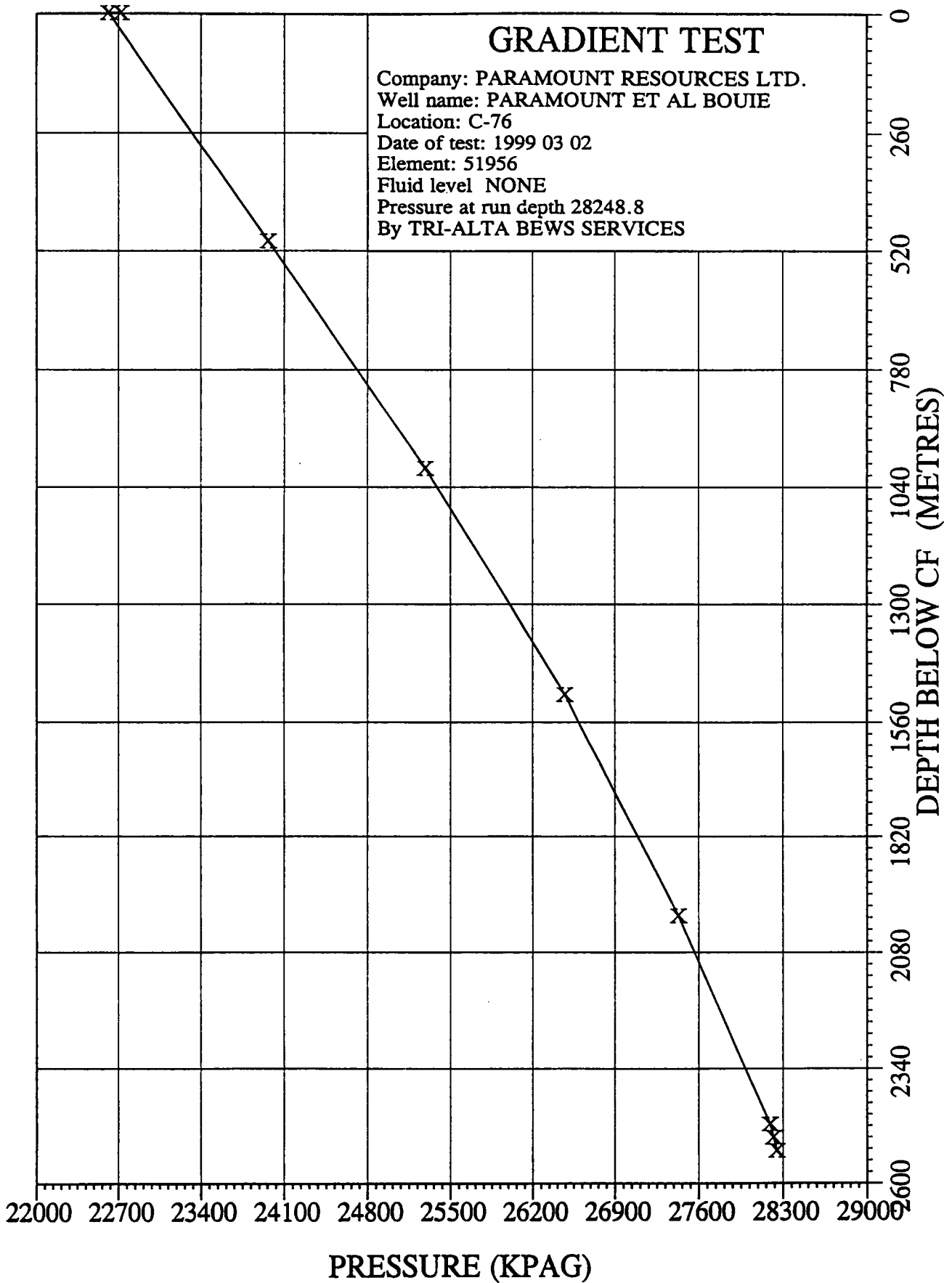
Date of test: 1999 03 02

Element: 51956

Fluid level: NONE

Pressure at run depth 28248.8

By TRI-ALTA BEWS SERVICES



GRADIENT TEST

Company: PARAMOUNT RESOURCES LTD.

Well name: PARAMOUNT ET AL BOUIE

Location: C-76

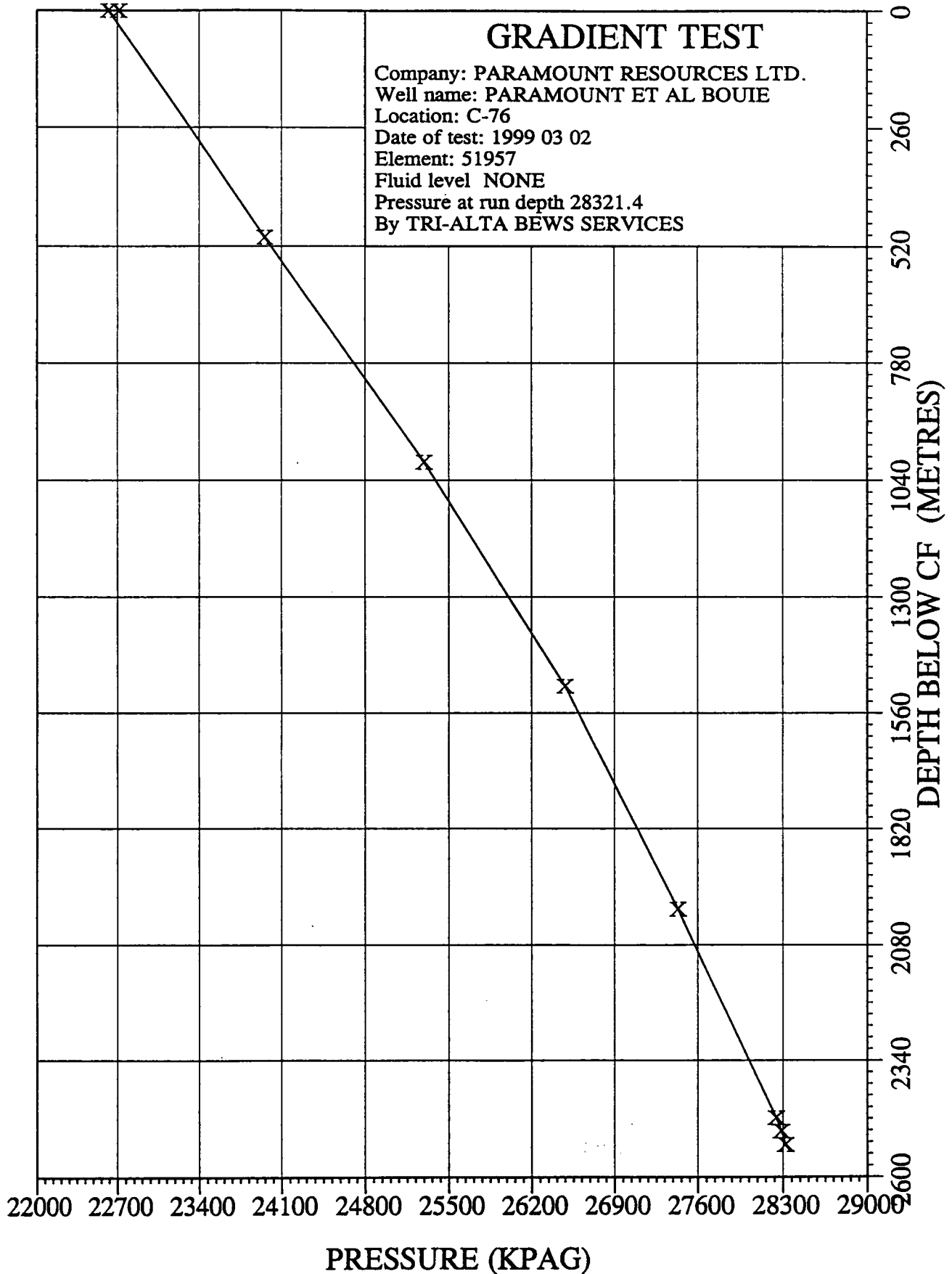
Date of test: 1999 03 02

Element: 51957

Fluid level NONE

Pressure at run depth 28321.4

By TRI-ALTA BEWS SERVICES





" A Plains Energy Services Company "

Paramount Resources Ltd.

C-76-A

~~99/04/06 - 99/04/11~~

99-02-13 - 99-02-16

Prepare by
Entest Corp.
May 13, 1999

Paramount Resc Ltd.
c-76A
Start Test Date: 1999/02/13
Final Test Date: 1999/02/16

Field Notes

Field Measurements

Param t al Bovie
Formation: N n/Manitou
Job Number: G0199

	Clock	Tubing	Casing	Meter	Gas	Cum	Oil/Con	Cum	H2O	Cum								
	Date	Time	Choke	Pressure	Pressure	WHT	Static	Diff	Temp	Orifice	Rate	Gas	Gain	Oil/Cond	Gain	H2O	Ph	Salinity
	yyyy/mm	hh:mm:ss		kPa(g)	kPa(g)	°C	kPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	m ³	m ³		ppm
1	1999/02/13	07:00:00	RIG CIRCULATING OUT TO INHIBITED H2O.															
2		10:00:00	RIGGING UP NOWSCO FOR ACID WASH.															
3		13:20:00	PRESSURE TEST ET, WELLHEAD AND FLOWLINE TO 14 MPa.															
4		13:40:00	COIL STARTS INTO HOLE.															
5		13:45:00	BEGIN PICKLE.															
6		13:55:00	FINISH PICKLE.															
7		14:30:00		50.800												3.170	3.170	
8		15:00:00														6.120	9.290	
9		15:30:00	START PUMPING ACID @ 140 litres/ MIN.															
10		16:00:00														4.880	14.170	
11		16:25:00	STOP PUMPING N2 AND ACID. TROUBLE @ LINER.															
12		16:40:00	SPOTTING 2 M3 OF ACID.															
13		16:45:00	START N2 @ 20 M3/MIN.															
14		16:50:00	REDUCE N2 TO 10 M3/MIN.															
15		17:30:00	START COIL OUT OF HOLE.															
16		18:30:00														8.110	22.280	
17			TOTAL FLUID RECOVERED = 19.11 M3															
18		19:30:00	START RUNNING COIL IN HOLE.															
19		21:50:00	START PUMPING H2O.															
20		23:45:00														3.770	26.050	
21	1999/02/14	01:00:00														5.610	31.660	
22			PRESSURING UP ON COIL.															
23		02:00:00														3.620	35.280	
24		02:20:00	RESTRICTION PUSHED OUT.															
25		03:00:00														11.560	46.840	
26		03:30:00														5.680	52.520	
27		03:40:00														1.270	53.790	
28		04:00:00	START COIL OUT OF HOLE.															

1999/02/13 07:00:00 To 1999/02/14 22:40:00
 Gas 0.000 Cum. 0.000 10³m³
 Oil 0.000 Cum. 0.000 m³
 Water 53.790 Cum. 53.790 m³

Paramount Reso : Ltd.
c-76A
Start Test Date: 1999/02/13
Final Test Date: 1999/02/16

FieldNotes
Field Measurements

Param t al Bovie
Formation: N n/Manitou
Job Number: G0199

		Clock		Tubing	Casing				Meter		Gas	Cum	Oil/Con	Cum	H2O	Cum		
	Date	Time	Choke	Pressure	Pressure	WHT	Static	Diff	Temp	Orifice	Rate	Gas	Gain	Oil/Cond	Gain	H2O	Ph	Salinity
	yyyy/mm	hh:mm:s		kPa(g)	kPa(g)	°C	kPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	m ³	m ³		ppm
29	1999/02/14	22:40:00	SAFETY MEETING.															
30		22:45:00	PRESSURE TEST TO 10 MPA.															
31	1999/02/15	03:50:00	START PUMPING XYLENE.															
32		04:10:00	TRACE OF BURNABLE GAS TO SURFACE.															
33		04:25:00	START PUMPING N2 AT 20 M3/MIN.															
34		05:07:00	XYLENE PUMPED AWAY.															
35		06:00:00	3.02 M3 RETURNED TONIGHT.															
36		06:00:00														12.360	66.150	

1999/02/14 22:40:00 To 1999/02/15 07:00:00
Gas 0.000 Cum. 0.000 10³m³
Oil 0.000 Cum. 0.000 m³
Water 14.370 Cum. 68.160 m³

	Date	Clock Time	Choke	Tubing Pressure kPa(g)	Casing Pressure kPa(g)	WHT °C	Static kPa(g)	Diff kPa	Meter Temp °C	Orifice mm	Gas Rate 10 ³ m ³ /	Cum Gas 10 ³ m ³	Oil/Con Gain m ³	Cum Oil/Cond m ³	H2O Gain m ³	Cum H2O m ³	Ph	Salinity ppm
37	1999/02/15	07:00:00													2.010	68.160		
38		07:30:00													0.720	68.880		
39		08:00:00													0.920	69.800		
40		08:30:00													0.190	69.990		
41		08:30:00	SMALL AMOUNT OF BURNEABLE GAS. 17.12 M3 RECOVERED TONIGHT.															
42		08:55:00		50.800														
43			SHUT DOWN N2 @ 600 METERS.															
44		09:00:00		65			28	19.9	6.0	12.700	1.669	2.996						
45		09:10:00	SHUT IN WELL. RIG OUT NOWSCO. RECORD BUILD-UPS.															
46		10:00:00		470														
47		10:15:00		498														
48		10:30:00		590														
49		10:45:00		665														
50		11:00:00		880														
51		11:30:00		970														
52		12:00:00		1120														
53		12:30:00		1285														
54		13:00:00		1395														
55		13:30:00		1480														
56		14:00:00		1575														
57		14:30:00		1720														
58		15:00:00		1880														
59		15:30:00		1995														
60		16:00:00		2155														
61			PRESSURES ELECTRONICALLY DEADWEIGHTED.															
62		17:00:00		2405														
63		18:00:00		2540														
64		19:00:00		2765														
65		20:00:00		2992														
66		21:00:00		3218														
67		22:00:00		3444														
68		23:00:00		3670														
69	1999/02/16	00:00:00		3900	2800													
70		01:00:00		4090														
71		02:00:00		4269														
72		03:00:00		4478														
73		04:00:00		4688														
74		05:00:00		4870														

1999/02/15 07:00:00 To 1999/02/16 06:00:00			
Gas	2.996	Cum.	2.996 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	1.830	Cum.	69.990 m ³

Clock		Choke	Tubing Pressure	Casing Pressure	WHT	Static	Diff	Meter Temp	Orifice	Gas Rate	Cum Gas	Oil/Con Gain	Cum Oil/Cond	H2O Gain	Cum H2O	Ph	Salinity
Date Time			kPa(g)	kPa(g)	°C	kPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	m ³	m ³		ppm
yyyy/mm hh:mm:s																	
75	1999/02/16 06:00:00			5091													
76	07:00:00			5241													
77	07:45:00			5420													
78		WIRELINE RIGGING UP TO RUN GRADIENT.															
79	16:00:00	RIG OUT PREPARE TO MOVE TO F-36.															

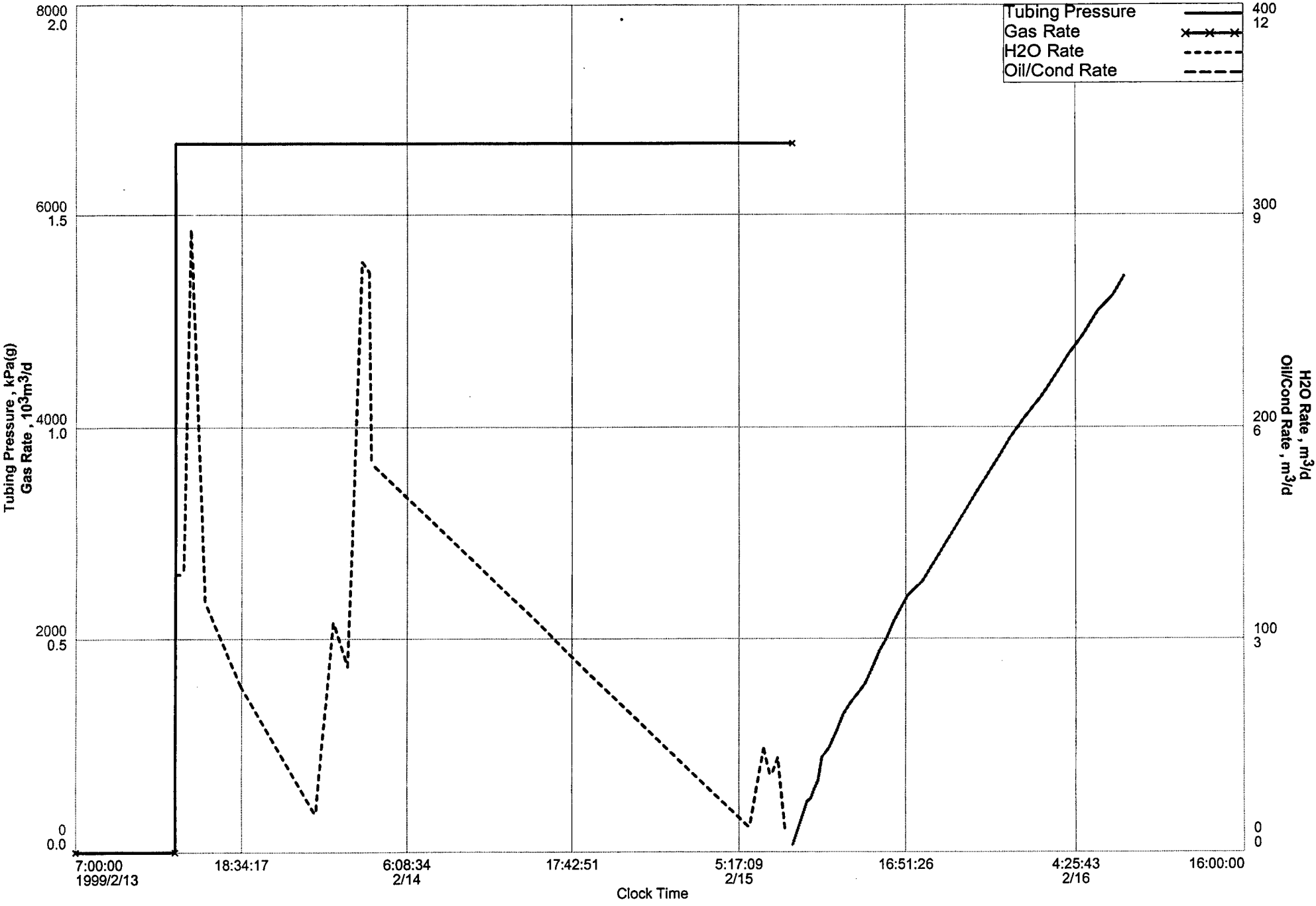
1999/02/16 06:00:00 To 1999/02/16 16:00:00			
Gas	0.000	Cum.	2.996 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	0.000	Cum.	69.990 m ³

	From	Clock	To	Clock	Daily	Daily	Daily	Daily	Cum.	Cum.	Cum.	Cum.
	Date	Time	Date	Time	Cum.	Cum.	Cum.	Cum.	Gas	Oil	Water	Cond
	yyyy/mm/dd	hh:mm:ss	yyyy/mm/dd	hh:mm:ss	Gas	Oil	Water	Cond.	To Date	To Date	To Date	To Date
					10 ³ m ³	m ³	m ³	m ³	10 ³ m ³	m ³	m ³	m ³
1	1999/02/13	07:00:00	1999/02/14	22:40:00	0.000	0.000	53.790		0.000	0.000	53.790	
2	1999/02/14	22:40:00	1999/02/15	07:00:00	0.000	0.000	14.370		0.000	0.000	68.160	
3	1999/02/15	07:00:00	1999/02/16	06:00:00	2.996	0.000	1.830		2.996	0.000	69.990	
4	1999/02/16	06:00:00	1999/02/16	16:00:00	0.000	0.000	0.000		2.996	0.000	69.990	

Paramount Resources Ltd.
76A
Start Test Date: 1999/02/13
Final Test Date: 1999/02/16

Paramount et al Bowie
Formation: Nar
Job No: G0199

Plot



Paramount Resources Ltd.
 c-76A
 Start Test Date: 1999/02/13
 Final Test Date: 1999/02/16

Paramount at Bowie
 Formation: Nannan/Manitou
 Job Number: G0199

	Date	Clock	Comment
	yyyy/mm/dd	hh:mm:ss	
1	1999/02/13	07:00:00	RIG CIRCULATING OUT TO INHIBITED H2O.
2	1999/02/13	10:00:00	RIGGING UP NOWSCO FOR ACID WASH.
3	1999/02/13	13:20:00	PRESSURE TEST ET.WELLHEAD AND FLOWLINE TO 14 MPa.
4	1999/02/13	13:40:00	COIL STARTS INTO HOLE.
5	1999/02/13	13:45:00	BEGIN PICKLE.
6	1999/02/13	13:55:00	FINISH PICKLE.
7	1999/02/13	15:30:00	START PUMPING ACID @ 140 litres/ MIN.
8	1999/02/13	16:25:00	STOP PUMPING N2 AND ACID. TROUBLE @ LINER.
9	1999/02/13	16:40:00	SPOTTING 2 M3 OF ACID.
10	1999/02/13	16:45:00	START N2 @ 20 M3/MIN.
11	1999/02/13	16:50:00	REDUCE N2 TO 10 M3/MIN.
12	1999/02/13	17:30:00	START COIL OUT OF HOLE.
13	1999/02/13	18:30:00	TOTAL FLUID RECOVERED = 19.11 M3
14	1999/02/13	19:30:00	START RUNNING COIL IN HOLE.
15	1999/02/13	21:50:00	START PUMPING H2O.
16	1999/02/14	01:00:00	PRESSURING UP ON COIL.
17	1999/02/14	02:20:00	RESTRICTION PUSHED OUT.
18	1999/02/14	04:00:00	START COIL OUT OF HOLE.
19	1999/02/14	22:40:00	SAFETY MEETING.
20	1999/02/14	22:45:00	PRESSURE TEST TO 10 MPA.
21	1999/02/15	03:50:00	START PUMPING XYLENE.
22	1999/02/15	04:10:00	TRACE OF BURNABLE GAS TO SURFACE.
23	1999/02/15	04:25:00	START PUMPING N2 AT 20 M3/MIN.
24	1999/02/15	05:07:00	XYLENE PUMPED AWAY.
25	1999/02/15	06:00:00	3.02 M3 RETURNED TONIGHT.
26	1999/02/15	08:30:00	SMALL AMOUNT OF BURNEABLE GAS. 17.12 M3 RECOVERED TONIGHT.
27	1999/02/15	08:55:00	SHUT DOWN N2 @ 600 METERS.
28	1999/02/15	09:10:00	SHUT IN WELL. RIG OUT NOWSCO. RECORD BUILD-UPS.
29	1999/02/15	16:00:00	PRESSURES ELECTRONICALLY DEADWEIGHTED.
30	1999/02/16	07:45:00	WIRELINE RIGGING UP TO RUN GRADIENT.
31	1999/02/16	16:00:00	RIG OUT PREPARE TO MOVE TO F-36.

Print Filter Off

Field Notes

Gas Meter 1

Meter Type:	Orifice Meter
Meter Size:	154.05 mm
Previous Gas Production:	0.000 10 ³ m ³
Tap Type:	Flange
Tap Location:	Downstream
Gas Gravity (G):	0.650
CO ₂ :	0.00 %
H ₂ S:	0.00 %
N ₂ :	0.00 %
Critical Temperature (T _C):	207.76 K
Critical Pressure (P _C):	4625.74 kPa

Oil Meter1

Meter Type:	Produced Volume
Measurement Type:	Incremental
Previous Oil Production:	0.000 m ³
Previous Water Production:	0.000 m ³

Water Meter1

Meter Type:	Produced Volume
Measurement type:	Incremental
Previous Water Production:	0.000 m ³

6. ENVIRONMENTAL WELL REPORT

Was submitted with drilling application

OIL, GAS & WATER ANALYSES


OIL ANALYSIS

CONTAINER IDENTIFICATION

PB-1

OPERATOR NAME

LABORATORY NUMBER

OE36007A

PARAMOUNT RESOURCES LTD.

UNIQUE WELL IDENTIFIER

WELL NAME

ELEVATIONS

KB m

SPC m

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

BOVIE

NAHANNI

SAME

TEST TYPE

NO

TEST RECOVERY

NAHANNI/MANITOU

TEST INTERVAL OR PERFS

SAMPLING POINT

2902.0-3464.0
mKB
OPEN HOLE

TANK

SEPARATOR

TREATER

RESERVOIR

SOURCE

SAMPLED

RECEIVED

GAUGE PRESSURE kPa

TEMPERATURE C

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

1999-02-17

1999-02-21

1999-02-22

J NCO

400bbl

SAMPLE PROPERTIES
B.S. & W (VOLUME FRACTION)

COLOUR OF CLEAN OIL

WATER

SEDIMENT

TOTAL

0.780

0.080

0.860

COLOUR NUMBER ASTM D-1500

A.S.T.M.

DENSITY

RELATIVE

ABSOLUTE p/kg*m-3

AS RECEIVED

AFTER CLEANING

AS RECEIVED

AFTER CLEANING

API GRAVITY @ 15 C

POUR POINT / C

TOTAL SULPHUR
(MASS FRACTION)

TOTAL SALT g*m-3

U.S.B.M.

A.S.T.M.

CARBON RESIDUE
(MASS FRACTION)

RVP / kPa

CONRADSON

RAMSBOTTOM

VISCOSITY

TEMP / C

ABSOLUTE / mPa*s

KINEMATIC / mm2*s-1

25

38

50

VOLUME FRACTION	TEMP / C
0.05	
0.10	
0.15	
0.20	
0.25	
0.30	
0.35	
0.40	
0.45	
0.50	
0.55	
0.60	
0.65	
0.70	
0.75	
0.80	
0.85	
0.90	
0.95	
F.B.P.	
CRACKED	

DISTILLATION

METHOD

A.S.T.M. D - 86*

INITIAL
BOILING POINT

ABS BAROM PRESS / kPa

ROOM TEMP / C

DISTILLATION SUMMARY
(VOLUME FRACTION)

200 C
NAPHTHA

275 C
KEROSENE

350 C
LIGHT GAS OIL

RECOVERED

RESIDUE

DISTILLATION
LOSS

CHARACTERIZATION
FACTOR

REMARKS

SAMPLE CONTAINS 86.36% FREE WATER
BY VOLUME. BS&W PERFORMED ON OIL
PORTION ONLY.

//

THE DISTILLATION TEMPERATURES HAVE
BEEN CORRECTED TO 101.3 KPA ABS.



- Completion Fluid

HYDROCARBON LIQUID ANALYSIS

CONTAINER IDENTIFICATION

PB#1

OPERATOR NAME

LABORATORY NUMBER

CE36007A

PARAMOUNT RESOURCES LTD.

UNIQUE WELL IDENTIFIER

WELL NAME

ELEVATIONS

KB m

GRD m

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

BOVIE

NAHANNI

SAME

TEST TYPE

NO

TEST RECOVERY

NAHNNI/MANITOU

TEST INTERVAL OR PERFS

SAMPLING POINT

2902.0-3464.0

mKB

OPEN HOLE

TANK

SEPARATOR

TREATER

RESERVOIR

SOURCE

SAMPLED

RECEIVED

GAUGE PRESSURE MPa

TEMPERATURE C

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

1999-02-17

1999-02-21

1999-02-22

GO NCO

400bbl

COMP	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N ₂	0.0000	0.0000	0.0000
CO ₂	0.0000	0.0000	0.0000
H ₂ S	0.0000	0.0000	0.0000
C ₁	0.0000	0.0000	0.0000
C ₂	0.0000	0.0000	0.0000
C ₃	0.0000	0.0000	0.0000
iC ₄	0.0000	0.0000	0.0000
nC ₄	0.0000	0.0000	0.0000
iC ₅	0.0000	0.0000	0.0000
nC ₅	0.0000	0.0000	0.0000
C ₆	0.0019	0.0006	0.0008
C ₇₊	0.9981	0.9994	0.9992
C ₈			
C ₉			
C ₁₀			
C ₁₁			
C ₁₂			
TOTAL	1.0000	1.0000	1.0000

OBSERVED PROPERTIES OF C7+ RESIDUE (15/15 C)

DENSITY (kg/m3)	RELATIVE DENSITY	API @ 15.5 C
869.3	0.8701	31.0
RELATIVE MOLECULAR MASS		
260.3		

CALCULATED PROPERTIES OF TOTAL SAMPLE (15/15 C)

DENSITY (kg/m3)	RELATIVE DENSITY	API @ 15.5 C
869.9	0.8707	30.9
RELATIVE MOLECULAR MASS		
260.0		

REMARKS

Calculations for C6 and C7 are based on Boiling Point Grouping. If Carbon Number Grouping had been done, the mole fractions would be C6 0.0019 C7+ 0.9981

File No : CE36007A

Company : PARAMOUNT RESOURCES LTD.

Location :

PROPERTIES OF C6+ FRACTION

BOILING POINT RANGE	***** COMPONENT *****	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
36.1 - 68.9	(C6) HEXANES	0.0019	0.0006	0.0008
68.9 - 98.3	(C7) HEPTANES	0.0002	0.0001	0.0001
98.3 - 125.6	(C8) OCTANES	0.0025	0.0011	0.0013
125.6 - 150.6	(C9) NONANES	0.0124	0.0064	0.0070
150.6 - 173.9	(C10) DECANES	0.0354	0.0204	0.0217
173.9 - 196.1	(C11) UNDECANES	0.0710	0.0449	0.0472
196.1 - 215.0	(C12) DODECANES	0.0834	0.0575	0.0598
215.0 - 235.0	(C13) TRIDECANES	0.0844	0.0630	0.0648
235.0 - 252.2	(C14) TETRADECANES	0.0841	0.0675	0.0688
252.2 - 270.6	(C15) PENTADECANES	0.0713	0.0613	0.0620
270.6 - 287.8	(C16) HEXADECANES	0.0557	0.0510	0.0514
287.8 - 302.8	(C17) HEPTADECANES	0.0506	0.0492	0.0493
302.8 - 317.2	(C18) OCTADECANES	0.0447	0.0460	0.0458
317.2 - 330.0	(C19) NONADECANES	0.0317	0.0344	0.0341
330.0 - 344.4	(C20) EICOSANES	0.0335	0.0383	0.0379
344.4 - 357.2	(C21) HENEICOSANES	0.0357	0.0428	0.0422
357.2 - 369.4	(C22) DOCOSANES	0.0403	0.0507	0.0499
369.4 - 380.0	(C23) TRICOSANES	0.0442	0.0581	0.0572
380.0 - 391.1	(C24) TETRACOSANES	0.0409	0.0561	0.0548
391.1 - 401.7	(C25) PENTACOSANES	0.0465	0.0664	0.0649
401.7 - 412.2	(C26) HEXACOSANES	0.0463	0.0666	0.0671
412.2 - 422.2	(C27) HEPTACOSANES	0.0376	0.0579	0.0566
422.2 - 431.7	(C28) OCTACOSANES	0.0180	0.0287	0.0278
431.7 - 441.1	(C29) NONACOSANES	0.0086	0.0142	0.0138
441.1 PLUS	(C30+) TRIACONTANES PLUS	0.0047	0.0081	0.0078
***** AROMATICS *****				
80.0	(C6) BENZENES	0.0000	0.0000	0.0000
110.6	(C7) TOLUENE	0.0003	0.0001	0.0001
136.2	(C8) ETHYLBENZENE	0.0011	0.0005	0.0004
138.4 - 144.4	(C8) XYLENES	0.0032	0.0014	0.0012
168.9	(C9) 1,2,4 TRIMETHYLBENZENE	0.0093	0.0045	0.0040
***** NAPHTHENES *****				
48.9	(CC5) CYCLOPENTANE	0.0000	0.0000	0.0000
72.2	(MCC5) METHYLCYCLOPENTANE	0.0000	0.0000	0.0000
81.1	(CC6) CYCLOHEXANE	0.0000	0.0000	0.0000
101.1	(MCC6) METHYLCYCLOHEXANE	0.0005	0.0002	0.0002

The above Hexanes+ values are based upon a measured Mass Fraction and a Calculated Mole Fraction, and assume total hydrocarbon recovery using Chromatographic Analysis.

COMPLETION SUMMARY

DAILY COMPLETION SUMMARY
NOTE: Service Rig operating daytime only

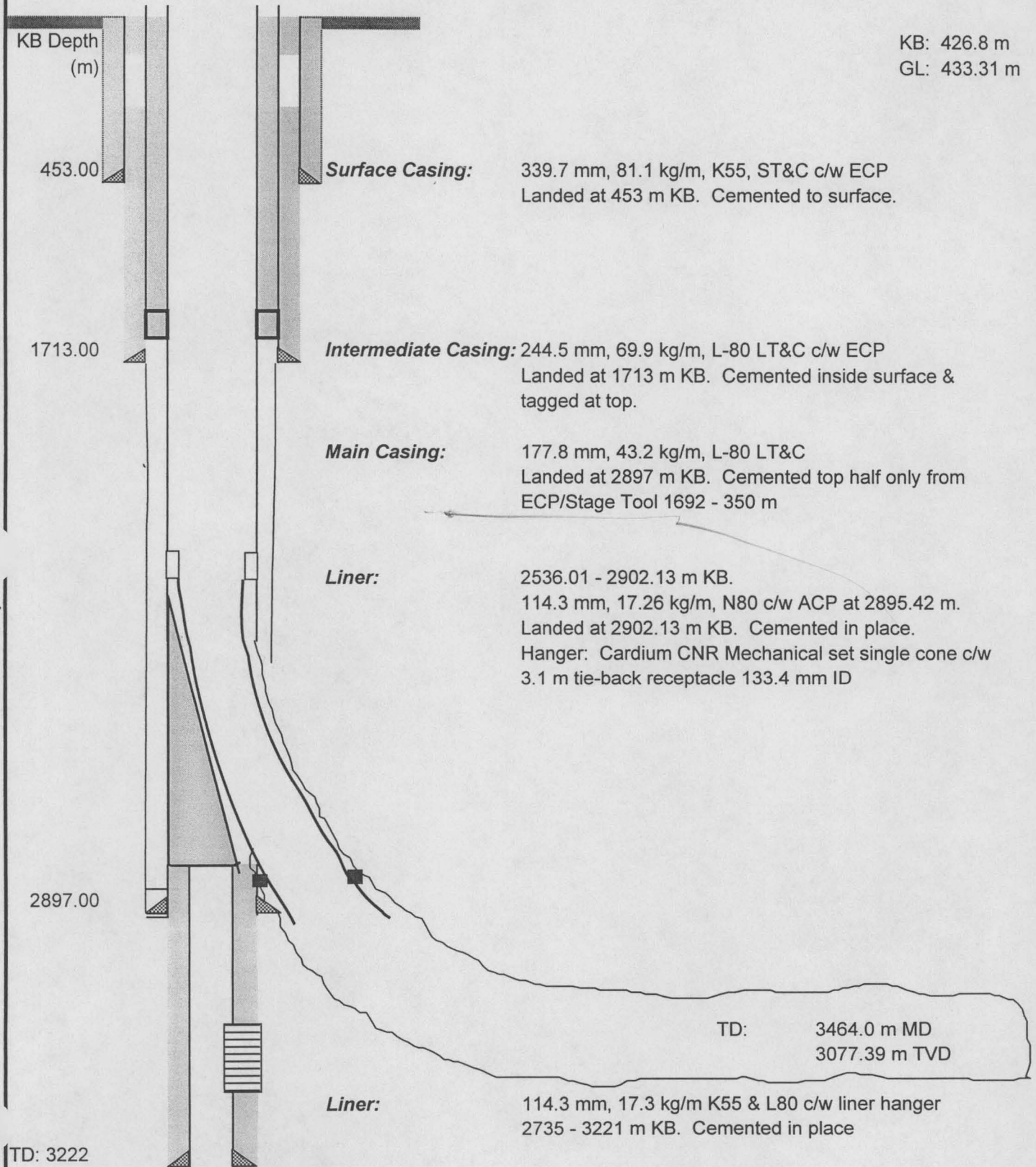
February 7 - March 14, 1999

Date	Day	Remarks
Feb 6	1	Rig up Cenalta Rig 42
Feb 7	2	Tag cement in liner hanger @ 2542.75 m KB
Feb 8	3	Drill out cement to 2543 m KB
Feb 9	4	Drill out cement to 2890 m KB
Feb 10	5	Drill out to 2901.25 m KB
Feb 11	6	Finish drilling out.
Feb 12	7	Set packer at 2534.7 m KB
Feb 13	8	Rig in coil and conduct a nitrified water wash down to 3463 m, then do 13 m3 15% HCL acid wash. Extremely thick mud returns plugging off test unit.
Feb 14	9	Conduct 16 m3 xylene wash from 2980 - 3464 m.
Feb 15	10	Finish Xylene wash. SI well.
Feb 16	11	Run recorders. See Tri Alta Bews report
Feb 17	12	Tear out rig. Rig Released 1600 hrs Feb 17.
March 10		Rig in coil tubing and conduct 5 m3 15% HCl acid wash then wash back with 5 m3 Xylene.
March 11		Bullhead 15 m3 15% HCl down tubing. Blow well dry with N2
March 12		Take pressure readings, tear out test unit.
March 13		Set tubing plug at 2529.0 m CF complete with equalizing prong. Fill tubing with inhibitor.

WELLBORE DIAGRAM

PARAMOUNT ET AL BOVIE C-76A

Diagram I (Actual as of March, 1999) See Diagram II for Tubing Details





CARDIUM
Tool Services Inc.

DWG. # 39721

ASBUILT

PARAMOUNT

WAYNE TOMM

Date: JAN 11, 99

Rep: CAL LAWTON
262-9586

Loc: C-76A

Service
Centre: FT. ST. JOHN
(250) 785-7038

Name: PARA et al
BOVIE

Service
Rep: BARRY BILLEY

	SIZE	WEIGHT	GRADE	THREAD		SIZE	WEIGHT	GRADE	THREAD
CASING	177.8mm	43.16kg/m	L-80		TUBING 1	88.9mm	13.84kg/m	L-80	EUE
LINER	114.3mm	17.26kg/m	L-80	LT&C	TUBING 2				

WELLBORE CONDITIONS: BHT: 170°C, H₂S: 2%, CO₂: 20%
INHIBITED FLUID IN ANNULUS

