

N.E.B. CC7Y

9211-933-7-3

DRILL STEM TEST ANALYSIS

COMPANY NAME	Paramount Resources Limited
WELL NAME	Paramount et al Cameron
LOCATION	C 75 60-10 117-15
TICKET # & DST #	0085 Four
TESTED INTERVAL	1546.00 to 1554.06 m (8.06 m)
FORMATION	Keg River
TEST TYPE	Inflate Straddle
TEST DATE	94/03/17



PETROLEUM SERVICES LTD.



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TEST DATE	94/03/17

DRILL STEM TEST ANALYSIS

FINAL REPORT

McAllister Petroleum Services Ltd.

DST FINAL REPORT OBSERVATIONS AND CONCLUSIONS

COMPANY NAME Paramount Resources Limited
WELL NAME Paramount et al Cameron
LOCATION C 75 60-10 117-15
INTERVAL 1546.00 to 1554.06 m (8.06 m)

TICKET # 0085
DST # Four
FORMATION Keg River
DATE 94/03/17

This is the second of two tests run on the same trip in the hole.

The drillstem test run at the above location was mechanically successful. The pressures recorded are within the accuracy limits of the gauges used.

Reset tool and opened for the preflow with a strong air blow immediately, remaining throughout. No gas to surface. Closed tool for a 60 minute initial shut-in. Opened for the second flow with a strong air blow immediately. Gas to surface in 4 minutes with a lazy 1 metre flame. Too small to measure. Closed tool for a 120 minute final shut-in. Pulled loose and reverse circulated. There was a total fluid recovery of 1000 metres, consisting of 100 metres of oil cut mud and 900 metres of salt water (Salinity 100 000 ppm NaCl). The fluid recorder indicates approximately 432 metres of fluid came in during the preflow and 564 metres on the second flow.

The charts indicate high permeability within the interval tested.

If you have any questions with respect to this report, please contact your McAllister Petroleum Services Ltd. Representative Mr. Todd McAllister or Mr. Hugh Adams at (403) 279-9300.

METRIC SUMMARY FLUID Semi-Log (Horner) Analysis Results

Extrapolated P *, Initial Shutin	kPa
Semilog slope	kPa
Extrapolated P *, Final Shutin	kPa
Semilog Slope	kPa
Transmissivity (kh/u)	mD.m/mPa.s
Mobility (k/u)	mD/mPa.s
Flow Capacity (kh)	mD.m
Permeability (k)	mD
Skin (s)	
Flow efficiency	
Damage Ratio	
Radius of Investigation	metres
Draw down (ISI-FSI)/ISI*100	%

Predicted capability for HECTARES

Stabilized Flow rate (Calculated skin) @ 2100 kPa, s = 0.0 =	m ³ /day
Stabilized Flow rate (Skin removed) @ 2100 kPa, s = 0.0 =	m ³ /day
Stabilized Flow rate (Improved skin) @ 2100 kPa, s = -4.0 =	m ³ /day

McAllister Petroleum Services Ltd.

DST FINAL REPORT INFLATE STRADDLE BYPASS

COMPANY NAME Paramount Resources Limited
WELL NAME Paramount et al Cameron
LOCATION C 75 60-10 117-15
INTERVAL 1546.00 to 1554.06 m (8.06 m)

TICKET # 0085
DST # Four
FORMATION Keg River
DATE 94/03/17

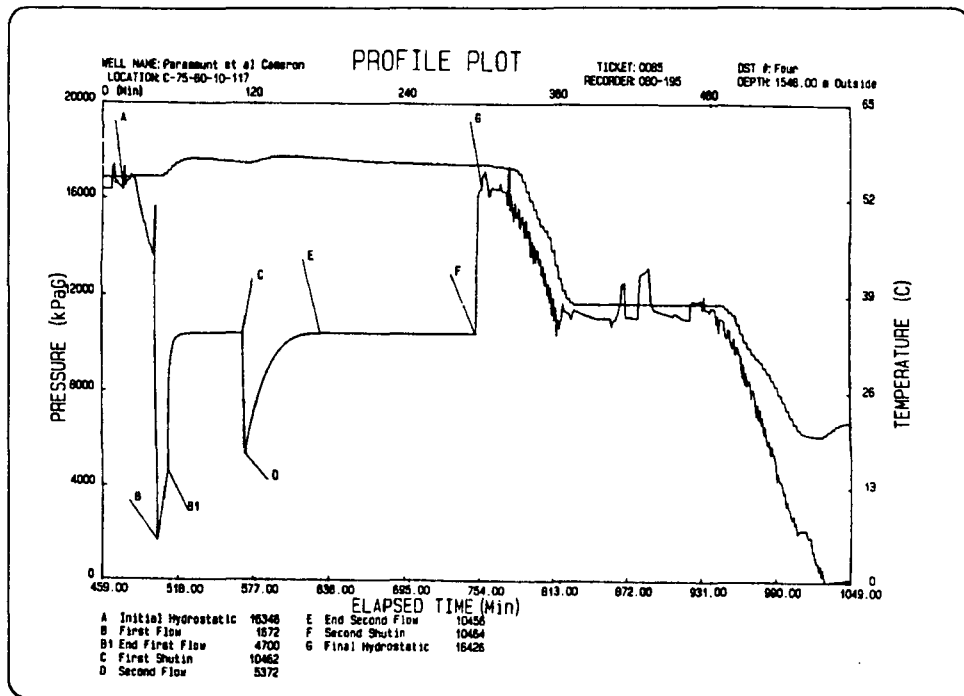
TEST PERIOD MINUTES

PreFlow 10 First Shutin 60
Second Flow 60 Second Shutin 120
Third Flow Third Shutin

DOWN HOLE PRESSURE DATA

Recorder Number 080-195
Clock Hour - EMP EMP
Depth Metres 1548.00
Pressure Port OUTSIDE
kPaG

Initial Hydrostatic (A) 16346
Start Preflow (B) 1672
End Preflow (B1) 4700
First Shut-in (C) 10462
Start Second Flow (D) 5372
End Second Flow (E) 10456
Second Shut-in (F) 10464
Final Hydrostatic (G) 16426
Start Third Flow (H)
End Third Flow (I)
Third Shut-in (J)



BLOW DESCRIPTIONS

PREFLOW :Strong air blow immediately, remaining throughout. No gas to surface.

SECOND FLOW :Strong air blow immediately. Gas to surface in 4 minutes with a lazy 1 metre flame. Too small to measure.

TEST SUCCESSFUL

RECOVERY DURING TEST

FLUID RECOVERY

Total 1000.00 m In drill collars 194.72 m and in drill pipe 805.28 m

100.00 m of Oil cut mud.

900.00 m of Salt water. (Salinity: 100 000 ppm NaCl)

This is the second of two tests run on the same trip in the hole. The fluid recorder indicates approximately 432 metres of fluid came in during the preflow and 564 metres on the second flow.

GAS RECOVERY

TIME	ORIFICE mm	kPa	m ³ /Day	Remarks
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T.S.T.M.

DST FINAL REPORT TOOLS AND GENERAL DATA - INFLATE STRADDLE BYPASS

McAllister Petroleum Services Ltd.

WELL NAME: Paramount et al Cameron
 LOCATION: C-75-60-10-117
 RECORDER: OBO-195

TICKET: 0085
 DST #: Four
 DEPTH: 1548.00 m Outside

Electronic Drill Stem Analysis

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Time	kPa	psi	kPaSQ	Time	T+DT/DT	kPa	psi	kPaSQ
Initial Flow				Initial Shut In				
0.0	15710	2278.56	246.807	0.0	0.00	4700	681.65	22.088
5.0	2866	415.63	8.212	5.0	3.00	10057	1458.72	101.153
10.0	4700	681.65	22.088	10.0	2.00	10369	1503.85	107.510
				15.0	1.67	10429	1512.61	108.766
				20.0	1.50	10445	1514.95	109.102
				25.0	1.40	10452	1515.91	109.240
				30.0	1.33	10456	1516.47	109.322
				35.0	1.29	10458	1516.83	109.374
				40.0	1.25	10459	1516.98	109.395
				45.0	1.22	10460	1517.14	109.418
				50.0	1.20	10461	1517.31	109.443
				55.0	1.18	10462	1517.46	109.464
				59.0	1.17	10462	1517.44	109.462
Second Flow				Second Shut In				
0.0	10462	1517.44	109.462	0.0	0.00	10456	1516.53	109.330
5.0	6211	900.81	38.575	5.0	15.20	10459	1516.89	109.382
10.0	7350	1066.04	54.024	10.0	8.10	10460	1517.05	109.405
15.0	8221	1192.33	67.582	15.0	5.73	10462	1517.40	109.456
20.0	8901	1290.95	79.224	20.0	4.55	10462	1517.40	109.456
25.0	9417	1365.89	88.689	25.0	3.84	10462	1517.37	109.451
30.0	9800	1421.33	96.034	30.0	3.37	10463	1517.53	109.474
35.0	10070	1460.59	101.413	35.0	3.03	10463	1517.50	109.470
40.0	10255	1487.32	105.159	40.0	2.78	10464	1517.70	109.499
45.0	10365	1503.30	107.431	45.0	2.58	10464	1517.69	109.497
50.0	10424	1511.93	108.668	50.0	2.42	10464	1517.67	109.495
55.0	10448	1515.37	109.163	55.0	2.29	10464	1517.66	109.493
60.0	10455	1516.31	109.299	60.0	2.18	10465	1517.83	109.518
61.0	10456	1516.53	109.330	70.0	2.01	10465	1517.82	109.516
				80.0	1.89	10465	1517.79	109.512
				90.0	1.79	10465	1517.78	109.510
				100.0	1.71	10464	1517.75	109.506
				110.0	1.65	10466	1517.92	109.531
				120.0	1.59	10467	1518.12	109.560
				122.0	1.58	10464	1517.73	109.504

M^CAllister Petroleum Services Ltd.

WELL NAME:Paramount et al Cameron
LOCATION:C-75-60-10-117
RECORDER:080-195

TICKET:0085
DST #:Four
DEPTH:1548.00 m Outside

Electronic Drill Stem Analysis

Page : 1

	delta_time (Minutes)	Temperature (C)	Pressure (kPaG)		delta_time (Minutes)	Temperature (C)	Pressure (kPaG)		delta_time (Minutes)	Temperature (C)	Pressure (kPaG)
	471.00	54.8	16594.5		516.00	56.8	10176.7		561.00	57.0	10461.4
	472.00	54.8	16517.4		517.00	56.8	10252.4		562.00	57.0	10461.4
	473.00	54.8	16460.2		518.00	56.8	10305.5		563.00	57.0	10461.4
	474.00	54.8	16448.2		519.00	57.1	10342.1		564.00	57.0	10462.5
A IHVD	475.00	54.8	16345.8		520.00	57.1	10368.7		565.00	57.0	10462.5
	476.00	54.8	17330.2		521.00	57.1	10387.3		566.00	57.0	10461.2
	477.00	54.8	16522.7		522.00	57.3	10402.3		567.00	56.9	10462.4
	478.00	54.8	16659.7		523.00	57.3	10412.9		568.00	56.9	10462.4
	479.00	54.8	16730.2		524.00	57.3	10420.9	C 1SI	569.00	56.9	10462.4
	480.00	54.9	16779.5		525.00	57.4	10429.1		570.00	56.9	8892.2
	481.00	54.9	17003.0		526.00	57.4	10433.1	D 2FLO	571.00	56.9	5371.8
	482.00	54.9	16840.7		527.00	57.4	10437.1		572.00	56.9	5666.2
	483.00	55.0	16953.8		528.00	57.5	10441.3		573.00	56.8	5945.6
	484.00	55.0	16808.8		529.00	57.5	10443.9		574.00	56.8	6210.9
	485.00	55.0	16630.5		530.00	57.5	10445.2		575.00	56.8	6461.6
	486.00	55.0	16278.1		531.00	57.5	10447.9		576.00	57.0	6699.6
	487.00	55.0	16024.0		532.00	57.5	10449.2		577.00	57.0	6923.7
	488.00	55.0	15746.1		533.00	57.5	10450.6		578.00	57.0	7141.3
	489.00	55.0	15539.9		534.00	57.4	10451.8		579.00	57.1	7350.1
	490.00	55.0	15266.0		535.00	57.4	10451.8		580.00	57.1	7541.1
	491.00	55.0	15005.4		536.00	57.4	10453.1		581.00	57.1	7724.2
	492.00	55.0	14976.1		537.00	57.4	10454.4		582.00	57.3	7902.5
	493.00	55.0	14742.1		538.00	57.4	10454.4		583.00	57.3	8065.6
	494.00	55.0	14502.8		539.00	57.4	10455.8		584.00	57.3	8220.8
	495.00	55.0	14279.4		540.00	57.4	10455.7		585.00	57.4	8371.2
	496.00	55.0	14077.4		541.00	57.4	10457.0		586.00	57.4	8510.5
	497.00	55.0	14080.0		542.00	57.4	10455.7		587.00	57.4	8647.2
	498.00	55.0	13891.2		543.00	57.4	10456.9		588.00	57.5	8780.1
	499.00	55.0	13673.2		544.00	57.4	10456.9		589.00	57.5	8900.8
BA OPEN	500.00	55.0	15710.1		545.00	57.4	10458.2		590.00	57.5	9014.9
	501.00	55.0	6317.7		546.00	57.3	10458.1		591.00	57.7	9124.2
B 1FLO	502.00	55.0	1672.3		547.00	57.3	10458.1		592.00	57.7	9229.0
	503.00	55.0	2082.0		548.00	57.3	10458.1		593.00	57.7	9325.8
	504.00	55.0	2469.2		549.00	57.2	10459.2		594.00	57.7	9417.5
	505.00	55.0	2865.7		550.00	57.2	10459.2		595.00	57.7	9503.7
	506.00	55.0	3260.9		551.00	57.2	10459.2		596.00	57.7	9584.7
	507.00	55.3	3647.0		552.00	57.2	10460.4		597.00	57.7	9660.4
	508.00	55.3	4014.3		553.00	57.2	10459.1		598.00	57.7	9733.4
	509.00	55.3	4367.2		554.00	57.2	10460.4		599.00	57.7	9799.7
B1 EFLO	510.00	55.8	4699.8		555.00	57.1	10460.3		600.00	57.7	9860.6
	511.00	55.8	8351.2		556.00	57.1	10460.3		601.00	57.7	9917.7
	512.00	55.8	9142.4		557.00	57.1	10460.3		602.00	57.7	9972.1
	513.00	56.4	9596.8		558.00	57.1	10461.5		603.00	57.7	10025.3
	514.00	56.4	9876.9		559.00	57.1	10460.2		604.00	57.7	10070.4
	515.00	56.4	10057.5		560.00	57.1	10461.5		605.00	57.7	10114.2

M^CAllister Petroleum Services Ltd.

WELL NAME: Paramount et al Cameron
 LOCATION: C-75-60-10-117
 RECORDER: OBO-195

TICKET: 0085
 DST #: Four
 DEPTH: 1548.00 m Outside

Electronic Drill Stem Analysis

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delta_time (Minutes)	Temperature (C)	Pressure (kPaG)	delta_time (Minutes)	Temperature (C)	Pressure (kPaG)	delta_time (Minutes)	Temperature (C)	Pressure (kPaG)
606.00	57.7	10155.3	651.00	57.2	10461.9	696.00	56.9	10465.0
607.00	57.7	10191.2	652.00	57.2	10461.9	697.00	56.9	10463.7
608.00	57.7	10221.7	653.00	57.2	10461.9	698.00	56.9	10465.0
609.00	57.7	10254.7	654.00	57.2	10463.2	699.00	56.9	10465.0
610.00	57.7	10280.0	655.00	57.2	10461.9	700.00	56.9	10465.0
611.00	57.7	10306.5	656.00	57.2	10463.2	701.00	56.9	10463.7
612.00	57.7	10327.7	657.00	57.2	10463.1	702.00	56.8	10464.9
613.00	57.7	10347.6	658.00	57.2	10461.8	703.00	56.8	10464.9
614.00	57.7	10364.9	659.00	57.2	10463.1	704.00	56.8	10464.9
615.00	57.7	10382.0	660.00	57.2	10463.0	705.00	56.8	10464.9
616.00	57.7	10394.0	661.00	57.2	10463.0	706.00	56.8	10464.9
617.00	57.7	10404.6	662.00	57.2	10463.0	707.00	56.8	10464.9
618.00	57.6	10416.4	663.00	57.1	10462.8	708.00	56.8	10464.8
619.00	57.6	10424.4	664.00	57.1	10462.8	709.00	56.8	10464.8
620.00	57.6	10432.4	665.00	57.1	10462.8	710.00	56.8	10464.8
621.00	57.6	10437.7	666.00	57.1	10462.9	711.00	56.8	10464.7
622.00	57.6	10440.3	667.00	57.1	10462.9	712.00	56.8	10464.7
623.00	57.6	10445.6	668.00	57.1	10462.9	713.00	56.8	10464.7
624.00	57.5	10448.1	669.00	57.1	10464.2	714.00	56.8	10464.8
625.00	57.5	10450.7	670.00	57.1	10464.2	715.00	56.8	10464.8
626.00	57.5	10452.1	671.00	57.1	10462.8	716.00	56.8	10464.8
627.00	57.5	10453.3	672.00	57.0	10464.1	717.00	56.7	10464.6
628.00	57.5	10454.6	673.00	57.0	10464.1	718.00	56.7	10464.6
629.00	57.5	10454.6	674.00	57.0	10464.1	719.00	56.7	10464.6
E E2FL 630.00	57.5	10456.1	675.00	57.0	10464.1	720.00	56.8	10464.7
631.00	57.5	10457.4	676.00	57.0	10464.1	721.00	56.8	10464.7
632.00	57.5	10458.7	677.00	57.0	10464.1	722.00	56.8	10464.7
633.00	57.5	10458.6	678.00	57.0	10464.0	723.00	56.7	10465.9
634.00	57.5	10458.6	679.00	57.0	10464.0	724.00	56.7	10464.6
635.00	57.5	10458.6	680.00	57.0	10464.0	725.00	56.7	10464.6
636.00	57.5	10459.8	681.00	57.0	10464.0	726.00	56.8	10466.0
637.00	57.5	10459.8	682.00	57.0	10464.0	727.00	56.8	10464.7
638.00	57.5	10459.8	683.00	57.0	10464.0	728.00	56.8	10464.7
639.00	57.4	10459.7	684.00	57.0	10463.9	729.00	56.7	10465.8
640.00	57.4	10459.7	685.00	57.0	10463.9	730.00	56.7	10464.5
641.00	57.4	10461.1	686.00	57.0	10463.9	731.00	56.7	10465.8
642.00	57.4	10461.0	687.00	56.9	10463.7	732.00	56.7	10464.6
643.00	57.4	10461.0	688.00	56.9	10463.7	733.00	56.7	10464.6
644.00	57.4	10461.0	689.00	56.9	10463.7	734.00	56.7	10464.6
645.00	57.3	10462.1	690.00	56.9	10465.1	735.00	56.7	10465.9
646.00	57.3	10460.8	691.00	56.9	10463.8	736.00	56.7	10464.6
647.00	57.3	10460.8	692.00	56.9	10463.8	737.00	56.7	10465.9
648.00	57.3	10462.1	693.00	56.9	10465.1	738.00	56.7	10465.7
649.00	57.3	10462.1	694.00	56.9	10463.8	739.00	56.7	10464.4
650.00	57.3	10462.1	695.00	56.9	10463.8	740.00	56.7	10465.7

M^CAllister Petroleum Services Ltd.

WELL NAME:Paramount et al Cameron
 LOCATION:C-75-60-10-117
 RECORDER:080-195

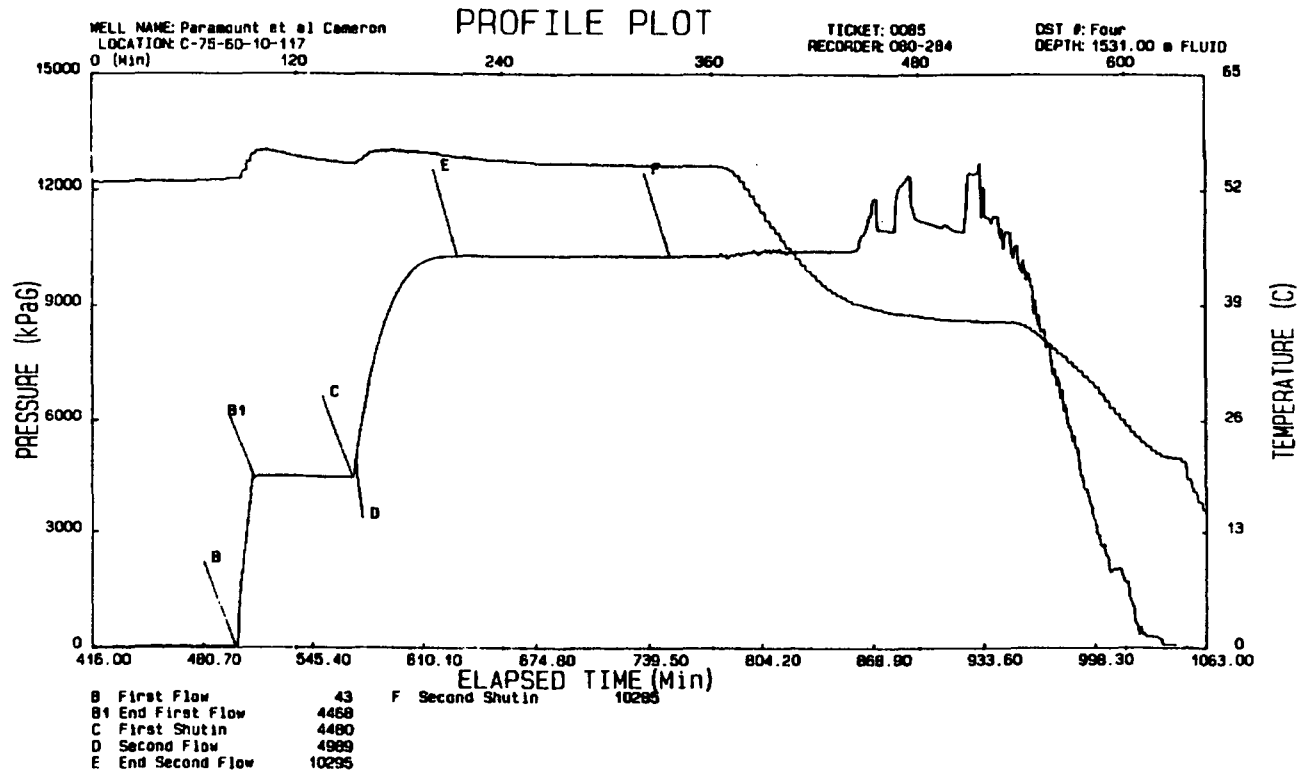
TICKET:0085
 DST #:Four
 DEPTH:1548.00 m Outside

Electronic Drill Stem Analysis

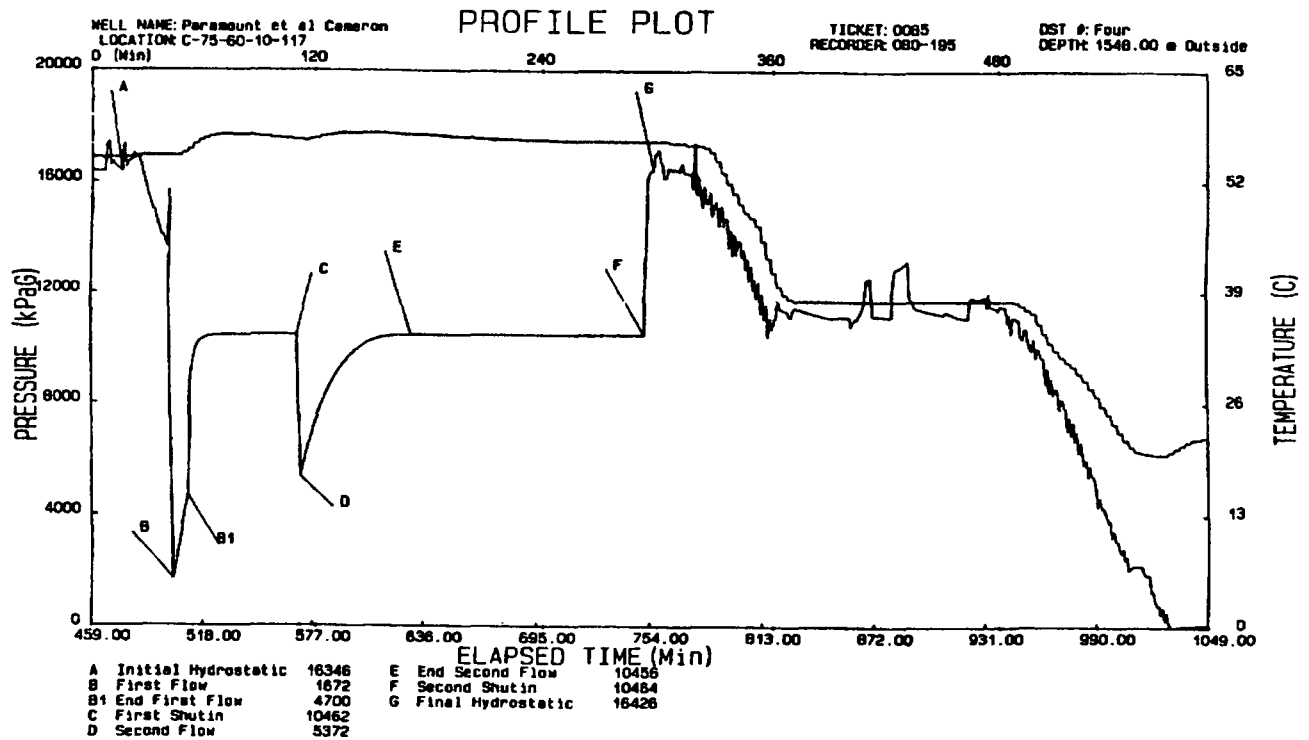
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	delta_time (Minutes)	Temperature (C)	Pressure (kPaG)		delta_time (Minutes)	Temperature (C)	Pressure (kPaG)		delta_time (Minutes)	Temperature (C)	Pressure (kPaG)
	741.00	56.7	10465.7								
	742.00	56.7	10465.7								
	743.00	56.7	10464.4								
	744.00	56.7	10465.8								
	745.00	56.7	10465.8								
	746.00	56.7	10464.5								
	747.00	56.7	10465.8								
	748.00	56.7	10465.8								
	749.00	56.7	10464.5								
	750.00	56.7	10467.1								
	751.00	56.7	10465.7								
F 2SI	752.00	56.7	10464.4								
	753.00	56.7	16104.7								
	754.00	56.7	16344.0								
	755.00	56.7	16409.1								
G FHYD	756.00	56.7	16426.4								
	757.00	56.7	17003.4								
	758.00	56.7	17028.6								
	759.00	56.7	17158.9								
	760.00	56.7	16781.4								
	761.00	56.7	16583.3								
	762.00	56.7	16153.9								
	763.00	56.7	16157.9								
	764.00	56.7	16487.6								
	765.00	56.5	16496.8								
	766.00	56.5	16427.7								
	767.00	56.5	16449.0								
	768.00	56.5	16433.0								
	769.00	56.5	16426.3								
	770.00	56.5	16386.4								
	771.00	56.5	16672.3								
	772.00	56.5	16407.7								
	773.00	56.5	16334.6								
	774.00	56.3	16330.5								
	775.00	56.3	16318.6								
	776.00	56.3	16327.9								
	777.00	56.3	15789.4								
	778.00	56.3	17376.9								
	779.00	56.3	15563.5								
	780.00	56.2	16248.0								
	781.00	56.2	15664.4								

FLUID



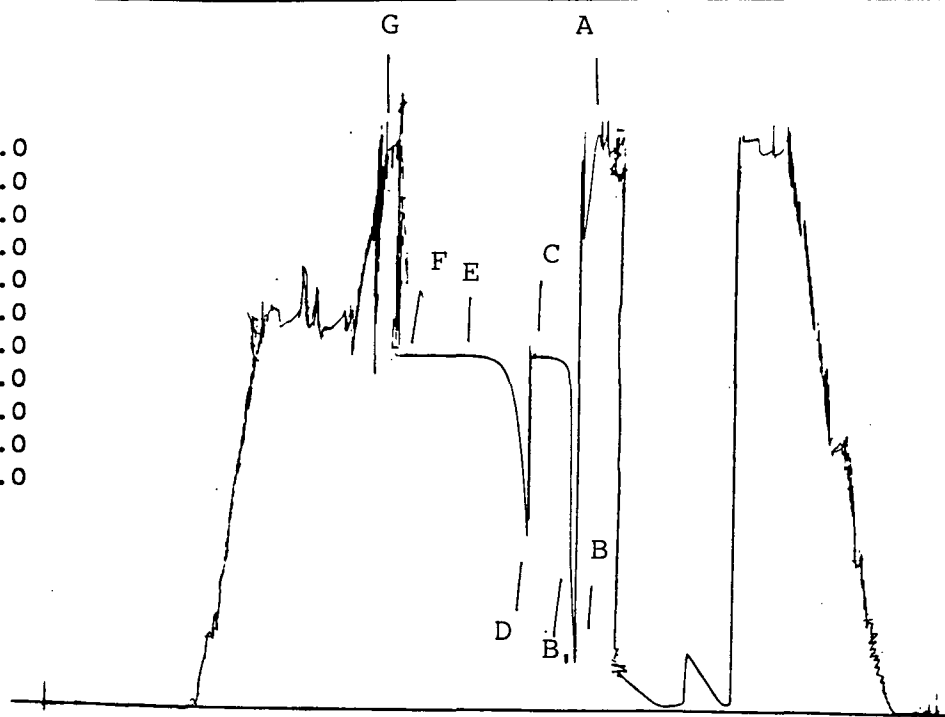
OUTSIDE



Well Name :Paramount eta al Cameron
Location :C 75 60-10 177-15

Ticket #:0085
DST # :Four

Recorder :13192
Depth :1536.00
Port :Inside
A IN Hydrostatic : 16250.0
B Preflow : 1453.0
B1 End Preflow : 4464.0
C First Shutin : 10371.0
D Second flow : 5171.0
E End 2nd flow : 10371.0
F Second Shutin : 10383.0
G FL Hydrostatic : 16393.0
H Third flow : 0.0
I End third Flow : 0.0
J Third Shutin : 0.0



Recorder :10277
Depth :1548.00
Port :Outside
A IN Hydrostatic : 16361.0
B Preflow : 1677.0
B1 End Preflow : 3411.0
C First Shutin : 10472.0
D Second flow : 5403.0
E End 2nd flow : 10451.0
F Second Shutin : 10479.0
G FL Hydrostatic : 16430.0
H Third flow : 0.0
I End third Flow : 0.0
J Third Shutin : 0.0

