Wellsite Geological Report

PARAMOUNT et al CAMERON
C-75 60 10'N 117 15'W

WELLSITE GEOLOGICAL REPORT

PARAMOUNT et al CAMERON
C-75 60° 10' 117° 15'

Completed (94-03-23) **By:**

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1A. WELL DATA SUMMARY

WELL NAME: PARAMOUNT et al CAMERON C-75 60° 10' 117° 15'

LOCATION: Unit: C Section: 75 Grid Area: 60° 10' 117° 15'

UWI: 300C756010117150

PROVINCE: Northwest Territories

OPERATOR: Paramount Resources Ltd.

AFE NO.: 18103

PERMIT or LEASE: Federal - Crown SDL - 009

DRILLING AUTHORITY: File #9211-P33-7-3 **CLASSIFICATION:** Development

DRILLING CONTRACTOR: PHELPS DRILLING **RIG NO:** 4E **NWT LICENSE #:** 2687

K.B. ELEVATION: 788.47 Metres **GROUND ELEVATION:** 783.62 Metres

C.F. ELEVATION: 784.12 Metres

TOTAL DEPTH: 1590 Metres (Driller's) , 1587.0 Metres (Logger's)

SPUD DATE: 94-02-17 @ 0900 hrs.

DATE TOTAL DEPTH REACHED: 94-03-16 @ 1615 hrs.

DRILLING RIG RELEASE DATE: 94-03-20 @ 1600 hrs.

WELL STATUS: Cased Potential Sulphur Point Oil

WELLSITE DRILLING SUPERVISOR: Gery Fuchs, Frank Pfefferle

WELLSITE GEOLOGICAL REPRESENTATIVE: W.M.(Mike)WHITE

1B. ENGINEERING SUMMARY

i) Casing Record Summary

Hole Size (mm)	Csg. Size (mm)	Wt (kg/m)	Grade	Make	Setting Depth K.B.	Cementing Details
311.2	244.5	53.6	J-55	LT&C	402 m.	30 tonnes 0-1-0 'G' + 2% $CaCl_2$ Cemented 94-02-19
222.2	177.8	34.2	LS-65	LT&C	1130 m.	11.75 tonnes 0-1-0 'G' + 33.3% Microsil + .5% T10 + 9% $CaCl_2$ + 4.5 tonne Thix Mix 'G' + .4% D23 + 1% $CaCl_2$ + .1% SPC 12000. Cemented 94-03-02
158.8	114.4	14.1	J-55	ST&C	1590 m. top @ 1048m	13 tonnes Thix Mix 'G' + .4% D-23 + .1% SPC-12000, Cemented 94/03/19

1B. **ENGINEERING SUMMARY**

ii) **Bit Record**

Bit #	Make	Type	Size (mm)	Hours	Depth In	Depth Out	Meters Drilled	Condition T/B/G
1A	SECURITY	S33SF	**311.2**	15.50	0m	172m	172m	8/8/1
2A	REED	HP12		1.75	172	198	26	4/4/1
3A	SECURITY	S33SF		12.75	198	402	204	5/4/1
4	HTC	ATJ05	**222.2**	12.75	402	639	237	1/2/I
5RR	HTC	ATJ05		30.00	639	1067	428	1/8/I
6	STC	F3H		Clean out trip for bridged logging tool				
7	REED	EXP43A		5.00	1067	1128	61	1/1/I
8RR	HTC	ATJ05		Clean out trip prior to 177.8mm casing				
9	REED	EHP51H	**158.8**	0.00	1130	1130		Plugged jet
10RR	REED	EHP51H		13.00	1130	1222	92	1/1/I
	***** Plugback to 1169m with plug #3 to correct deviation *****							
11	SECURITY	S33F	**158.8**	17.50	1169	1184	15	3/4/I
12	SECURITY	S33F		14.75	1184	1261	77	4/4/I
13RR	REED	EHP51H		25.00	1261	1363	102	2/4/I
14	REED	EHP51H		13.75	1363	1419	56	2/1/I
15	D.BOART	SC-278	**158.0**	9.75	1319	1425	6	Core #1
16RR	D.BOART	SC-278		13.50	1425	1433	8	Core #2
17RR	D.BOART	SC-278		7.00	1433	1439	6	Core #3
18RR	REED	EHP51H	**158.8**	0.00	1439	1439	Clean out trip	
19RR	REED	EHP51H		34.25	1439	1590	151	4/3/I

1B. ENGINEERING SUMMARY

iii) Deviation Surveys

Depth	Measurement	Depth	Measurement	Depth	Measurement
35m	1.75°	903m	0.75°	1192.1m	0.8° S66.4W
44	1.00	998	0.50	1201.3	0.6 N63.6W
72	1.00	1097	1.25	1210.9	0.4 S71.4W
100	0.75	1161	1.50	1220.6	0.4 N43.6W
127	0.75	1175	2.50	1230.3	0.4 N58.6W
156	1.00	1186	3.75	1239.6	0.7 N68.6W
182	1.00	1196	5.00	1249.3	0.1 N63.6W
209	0.75	1205	7.75	1261	0.25°
237	0.75	**********		1281	0.75
266	0.75	*PLUGBACK to 1169m *		1305	2.00
295	1.00	**********		1320	1.75
322	0.50	1152.4m	1.9° S86.4W	1340	1.50
351	0.50	1159.6	2.1 N88.6W	1359	2.00
378	0.75	1162.1	2.3 S81.4W	1378	1.50
481	1.00	1168.9	2.2 S86.4W	1397	1.50
576	0.75	1171.7	1.9 S86.4W	1458	1.50
700	0.50	1179.9	1.2 S74.4W	1518	0.75
799	1.00	1182.5	0.6 N78.6W	1584	1.00

PARAMOUNT et al CAMERON

C75-6 10' 117°15'

SPACING M.V.

1) 9.6 2) 26.4 3) _____

TIME	BIT DEPTH	SENSOR DEPTH	INC.	AZm RAW	AZt TRUE	T.F.	OFF BTM. T.F.	T.F.	ORIENTED METERS	ORIENTED T.F.	ROTARY METERS	WOB	RPM	REMARKS
	1161.98	1152.4	1.9	240	266.4									S 86.4 W
	1169.20	1159.6	2.1	245	271.4									N 88.6 W
	1171.67	1162.1	2.3	235	261.4									S 81.4 W
	1178.5	1168.9	2.2	240	266.4									S 86.4 W
	1181.29	1171.7	1.9	240	266.4									S 86.4 W
	1189.5	1179.9	1.2	228	254.4									S 74.4 W
	1192.08	1182.5	.6	255	281.4									N 78.6 W
	1201.72	1192.1	.8	220	246.4									S 66.4 W
	1210.86	1201.3	.6	270	296.4									N 63.6 W
	1220.53	1210.9	.4	225	251.4									S 71.4 W
	1230.20	1220.6	.4	290	316.4									N 43.6 W
	1239.88	1230.3	.4	275	301.4									N 58.6 W
	1249.19	1239.6	.7	265	291.4									N 68.6 W
	1258.89	1249.3	.1	270	296.4									N 63.6 W

1B. ENGINEERING SUMMARY

iv) Drilling Fluids

Type	Depth (m)	Den. kg/m³	Vis s/L	W.L. cc/ 30min	pH	PV/YP	Pf/Mf	Cl- mg /L	K+ mg /L	Ca++ mg /L	% Slds	% Oil
Gel H_2O	132m	1090	30	N/C	7.0	3/1	0/.2	50	-	20	5.5	-
	200	1190	32	25.0	7.5	5/2.5	0/.2	50	-	20	12.0	-
	360	1180	34	16.0	8.0	5/1	0/.3	50	-	20	11.0	-
	387	1190	50	18.0	8.5	10/7.5	.1/.3	50	-	30	12.0	-
	402	1200	44	16.0	8.0	11/4.5	0/.3	50	-	20	12.5	-
SappH_2O	414	1015	29		10.5	2/0	.3/.4	50	-	--	tr	-
	638	1030	50	13.2	9.0	16/3.5	.2/.4	50	-	20	2.5	-
Gel	709	1065	41	16.0	11.5	9/2	2/3	200	-	20	4.0	-
Polymer	921	1070	38	12.0	10.0	8/1	.5/1.1	300	-	0	4.4	-
	1050	1060	40	11.0	10.0	8/2	.5/1.2	300	-	0	3.8	-
	1067	1040	45	14.0	10.0	10/1.5	.4/.8	300	-	0	2.5	-
	1067	1030	38	36.0	12.5	5/14	3/3	300	-	40	1.9	-
Gel	1128	1070	56	10.0	11.5	23/7	2/3	300	-	0	4.4	-
Chem	1130	1070	49	11.0	11.0	12/6	1/2.2	300	-	0	4.4	-
	1130	1045	34	15.0	10.5	6/3	.7/1.6	300	-	0	2.8	-
	1212	1070	52	9.0	10.0	17/5.5	.7/2.2	300	-	20	4.4	-
	1222	1070	38	10.0	9.5	12/3.5	.3/1.9	300	-	20	4.4	-
	***** Deviation problems 1161-1205m. Plugback 1222-1169m *****											
	1070	1060	51	10.0	11.0	14/4.5	.5/1.5	300	-	30	3.8	-
	1084	1060	44	10.0	12.0	14/4	.6/1.4	300	-	20	3.8	-
	1222	1080	44	10.0	11.0	14/3.5	.4/1.2	300	-	20	5.0	-
	1250	1100	50	8.5	11.0	20/8	.3/1.1	300	-	20	6.3	-
	1310	1100	42	9.0	10.0	14/4	.2/.8	300	-	20	6.3	-
	1343	1100	45	8.5	10.0	17/6.5	.1/.8	300	-	20	6.3	-
	1365	1100	46	9.0	10.0	18/5	.2/.9	300	-	20	6.3	-
	1400	1090	52	9.0	9.0	22/12	.1/.6	300	-	20	5.6	-
	1420	1100	55	9.0	10.0	22/8	.1/.7	250	-	40	6.3	-
	1425	1100	45	8.0	10.0	17/6.5	.2/1.0	250	-	80	6.3	-
	1433	1100	45	8.0	10.0	18/5	.2/1.1	250	-	60	6.3	-
	1461	1100	93	9.0	9.0	30/12	.1/.6	500	-	100	6.2	-
	1510	1080	40	15.0	10.0	13/5.5	.1/.5	800	-	520	4.9	-
	1565	1070	55	10.5	11.0	15/10	.3/.7	800	-	400	4.3	-
	1590	1070	65	9.0	10.5	20/13	.2/.6	800	-	320	4.3	-
	1590	1080	60	8.0	10.0	18/11	.1/.5	900	-	400	4.9	-

1B. ENGINEERING SUMMARY

v) **Hole Problems** (severe deviation, sloughing, dog legs, etc.)

High degree of **sloughing & spalling** of formations while drilling caused sample quality to be very poor from uphole contamination. **High deviation** from 1161-1205m (1.50°-7.75°) resulted in plugback to 1169m & motor drilling (1169-1261m) to correct.

vi) **Lost Circulation**

In Wabamun @ **612m, 634m & 639m** experienced total losses amounting to 199m^3. Set cement plug #1. Tagged plug @ 540m, washed to 572m. Drill cement 572-639m. Drill ahead to **659m**, lost 7m^3. Regain volume. Drill ahead **659-679m**, lost 10m^3. At **679m** lost additional 12m^3. Regain volume. Drill ahead **679-710m**, lost 13m^3. Circulate & condition mud system. Drill ahead to **903m**, lost 26m^3. Rebuild volumes. Drill ahead to **942m**, lost 32m^3. Regain circulation. Drill ahead to **985m**, losing 2m^3/hr then total loss of 54m^3. Regain circulation & rebuild volumes. Drill ahead to **1067m**, lost 60m^3. Attempt to run Temperature Log to locate lost circulation zone. Hit bridge @ 461m, fluid level @ 100m. On clean out trip needed to regain circulation, lost another 30m^3. Ran Temperature Log to locate zone @ 590m. Set open hole cement plug #2 @ 590m. Tag cement @ 513m. Drill cement from 520-590m. RIH, drill ahead 1067-1106m. Start to experience losses. Drill to **1128m**, lost circulation, 60m^3. Run 177.8mm casing.

vii) **Well Control Problems** (well flow, blowouts - conditions before and after blow out)

No well control problems were encountered during the drilling operations.

viii) **Cementation** (plugbacks, stabilization, abandonment)

PLUG #1: 639-540m, 6 tonnes Class 'G' + 2% $CaCl_2$, 2125 hrs, plug down @ 2125 hours, 94-02-22.
PLUG #2: 590-513m, 6tonnes Class 'G' + 2%$CaCl_2$ + 2 sacks celloflake, plug down @ 0435 hours, 94-02-27
PLUG #3: 1222-1169m, 2.4 tonnes 0-1-0 'G' + 1% T10, plug down @ 1914 hours 94-03-05

2.i) **GEOLOGICAL FORMATION TOPS**

K.B. 782.62m

Formation Age	Formation Name	Sample Depth	Sample TVDSS	Wireline Logs Depth	Wireline Logs TVD	Wireline Logs TVDSS
CRETACEOUS						
(Kbs)	Bluesky	543m	+ 245.5m	545.5m	+ 243.0m	+ 243.0m
DEVONIAN						
(Dwa)	Wabamun	561	+ 227.5	560.8	+ 227.7	+ 227.7
(Djm)	Jean Marie	700	+ 88.5	723.2	+ 65.3	+ 65.3
(Dsi)	Fort Simpson	706	+ 82.5	729.0	+ 59.5	+ 59.5
(Dtf)	Twin Falls	824	- 35.5	840.6	- 52.1	- 52.1
(Dhr)	Hay River	991	- 202.5	1002.5	- 214.0	- 214.0
(Dbl)	Beaverhil Lk	1290	- 501.5			
(Dmu)	Muskwa	1332	- 543.5			
(Dsp)	Slave Point	1359	- 570.5	1358.3	- 569.8	- 569.8
(Dfv)	FtVermillion	1388	- 599.5	1388.9	- 600.4	- 600.4
(Dew)	WattMountain	1404	- 615.5	1407.3	- 618.8	- 618.8
(Dst)	SulphurPoint					
	Limestone	1409	- 620.5	1418.1	- 629.6	- 629.6
	Dolomite	1424	- 635.5	1423.6	- 635.1	- 635.1
(Deg)	Muskeg	1443	- 654.5	1440.0	- 651.5	- 651.5
(Dek)	Keg River	1539	- 750.5	1534.8	- 746.3	- 746.3
TOTAL DEPTH		1590	- 801.5	1587.0	- 798.5	- 798.5

2.ii) **Sample Requirements**

Paramount Resources Ltd.: 1 - 7 ml vial sample every 5 m from surface casing to final total depth.
1 - sample file every 5 m from S.C. to T.D.

Government (N.E.B.) : 1 - unwashed plastic lined bag sample every 5 m from surface casing to final total depth.
1 - 7 ml vial sample every 5 m from S.C. to T.D.

I.S.P.G : 1 - unwashed plastic lined bag sample every 5 m from surface casing to final total depth
1 - processed Geochem jar sample every 10 m from S.C. to T.D.
1 - 7 ml vial sample every 5 m from S.C. to T.D.

Sample Quality : Poor sample quality from surface casing to intermediate casing point @ 1130m with numereous samples missing due to lost circulation. Many samples of lost circulation material. Slight improvement of sample quality after setting casing. Abundant sloughing & spalling of shales.

2.iii) **Sample Descriptions**

Interval	Description
402-407m	No Sample: Formation leak-off test @ 407m
410-420	**SHALE**:medium to dark grey, fine texture, slightly micaceous, brittle to firm, sub blocky, occasionally sub fissile minor traces **SANDSTONE**:buff grey white, silt grained, sub angular, well sorted, siliceous, consolidated, tight
420-445	**SHALE**:as above very minor traces **SANDSTONE**:as above
445-470	**SHALE**:medium to occasional dark grey, fine texture, occasionally micaceous, firm to hard, blocky to sub blocky, occasionally sub fissile, occasionally carbonaceous in part
470-495	**SHALE**:as above
495-525	**SHALE**:medium to dark grey, fine to occasional medium texture, in part sub waxy, micro micaceous in part, occasional black to dark grey, slightly carbonaceous, blocky to sub blocky, occasionally sub fissile, appears slightly bentonitic in part very minor trace **SANDSTONE**:clear to frosted, medium grained, sub rounded, poor sorting, unconsolidated No Sample 515m
525-535	**SHALE**:medium to dark grey as above; increasing black to dark grey, carbonaceous, platey, occasionally sub fissile, slightly micro micaceous
535-540	**SHALE**:predominantly black to dark grey, carbonaceous, slightly micro micaceous, occasional ironstone staining, brittle to firm, platey to sub blocky
540-545	No Sample

Interval	Description
	BLUESKY 543m (+245.5m TVDSS)
545-550	**SANDSTONE**:clear to frosted, light grey, very fine grained, sub angular to sub rounded, well sorted, siliceous, friable, **good to excellent intergranular porosity, no fluorescence, very slight weak yellow streaming cut fluorescence, poor show** abundant **SHALE**:medium to dark grey, occasional black, occasionally carbonaceous, micro micaceous in part, medium occasional **GLAUCONITE**:green, granular
***NOTE:	The 550m & 555m samples appear to be switched. Therefore the 555m sample is described as the 550m sample & visa versa.
550-561	predominantly **SHALE**:as above, probably cavings abundant **SANDSTONE**:as above with increased abundance of green **GLAUCONITE** grains abundant **LIMESTONE**:cream white to light buff white, crypto to micro crystalline, appears dense, clean, slightly fragmental/bioclastic appearing in part, possibly brecciated
	WABAMUN 561m (+227.5m TVDSS)
561-570	**LIMESTONE**:cream white, occasionally slightly chalky appearing, light buff tan to light brown, crypto to very fine crystalline, fragmental/bioclastic appearing in part, slightly brecciated in part, clean, **dense with poor to fair intergranular porosity, no fluorescence, no show**
570-585	**LIMESTONE**:as above minor traces disseminated **PYRITE** occasionally abundant **SANDSTONE**:cavings as above
585-605	No Samples - Lost circulation @ 612m
605-639	Lost Circulation Material (LCM) - primaseal (sawdust, celloflake, plastic), lost circulation @ 634m & 639m
*** Set cement plug #1, 639-572m to control lost circulation ***	
639-640	**LIMESTONE**:cream white to light buff tan, micro to in part very fine crystalline, sucrosic/silty appearing, bioclastic appearing in part, slightly chalky in part, clean, **dense with poor to fair intercrystalline porosity, no fluorescence no show** abundant **SHALE**:medium to dark grey, medium texture, brittle to hard, splintery to sub blocky, possibly cavings

Interval	Description
640-660	**LIMESTONE**:as above, becoming buff light grey white in part, increasingly very fine crystalline, fragmental/bioclastic appearing in part, slightly brecciated in part, sucrosic/silty, **occasional poor to fair intercrystalline porosity, no fluorescence, no show** abundant **SHALE**:cavings throughout as above abundant **Cement**:cavings from plug #1
***** Lost Circulation @ 659m *****	
660-670	**LIMESTONE**:as above, becoming slightly light to medium brown in part, sucrosic/silty to sandy appearing in part, slightly brecciated, fragmental/bioclastic in part, **poor to fair intercrystalline porosity, no fluorescence, no show** abundant **SHALE**:cavings as above abundant **Cement**:as above abundant Lost Circulation Material:primaseal as above
670-675	??Questionable Interpretation **LIMESTONE**:as above abundant **SHALE**:cavings, medium to dark grey, fine to medium texture, occasionally slightly micro micaceous, brittle to hard, sub platey, splintery, sub blocky
***** Lost Circulation @ 679m *****	
675-685	??Questionable Interpretation **LIMESTONE**:cream white to light buff grey white, slightly mottled in part, micro to very fine crystalline, sucrosic/silty to in part sandy, brecciated in part, **predominantly appears dense with occasional poor to fair intercrystalline porosity, no fluorescence, no show** abundant Lost Circulation Material:primaseal as above
685-690	**LIMESTONE**:light grey, mottled in part, cream white, very fine crystalline, sucrosic/silty to sandy appearing, in part brecciated, **poor to fair intercrystalline porosity, no fluorescence, no show** abundant **SHALE**:dark grey, occasional black carbonaceous, slightly micro micaceous in part, brittle to firm, splintery to blocky, possibly cavings abundant Lost Circulation Material:primaseal as above

Interval	Description
690-700	**LIMESTONE**:light grey white, cream white, occasional buff tan white, mottled in part, micro to very fine crystalline, sucrosic/silty to sandy appearing, slightly brecciated in part, **poor to fair intercrystalline porosity, no fluorescence, no show** minor **SHALE**:as above abundant Lost Circulation Material:sawdust, etc., as above
	JEAN MARIE 700m (+ 88.5m TVDSS)
700-706	**LIMESTONE**:as above slight increase SHALE:medium to dark grey, fine to sub waxy texture, slightly micro micaceous in part, brittle to firm, splintery to sub blocky, possibly cavings; minor traces light grey green, sub waxy, fissile, splintery to platey abundant **Cement** cavings abundant Lost Circulation Material:as above
***** Losses in Circulation between 679-710m *****	
	FORT SIMPSON 706m (+ 82.5m TVDSS)
706-720	**SHALE**:dark grey to black, appears carbonaceous in part, very minor traces green grey, fine to occasionally medium texture, occasionally sub waxy, slightly micro micaceous, brittle to firm, splintery to sub blocky **LIMESTONE**:buff light grey to grey white, micro to very fine crystalline, occasionally sucrosic/silty to sandy, grading to dolomitic in part, slightly brecciated in part, argillaceous in part, **poor to fair intercrystalline porosity no fluorescence, no show**
720-735	**LIMESTONE**:cream white to light buff white grey, micro to very fine crystalline, appears sucrosic/silty to sandy, dolomitic appearing in part, slightly brecciated in part, slightly argillaceous in part, **poor to fair intercrystalline porosity, no fluorescence, no show** slight to abundant **SHALE**:as above occasionally abundant Lost Circulation Material:primaseal
735-745	**LIMESTONE**:buff light grey to light grey white, micro to very fine crystalline, sucrosic/sandy to silty, very dolomitic in part, moderately argillaceous in part, **poor to fair intercrystalline porosity, no fluorescence, no show** minor trace **SHALE**:medium to dark grey, fine to in part sub waxy texture, slightly micro micaceous, brittle to firm, splintery to sub blocky; occasional light green grey

Interval	Description
745-750	No Sample
750-760	**LIMESTONE**:as above minor trace **SHALE**:as above
760-775	**SHALE**:dark grey, fine to medium texture, abundant grey green, sub waxy texture, slightly calcareous in part, brittle to firm, fissile in part, splintery to sub blocky interbedded **LIMESTONE**:as above
775-800	**SHALE**:as above with occasional olive brown, fine texture, brittle to firm, splintery interbedded **LIMESTONE**:as above
800-805	**SHALE**:dark grey to black, slightly carbonaceous in part, fine texture, brittle to moderately soft, occasionally fissile, splintery to sub blocky; abundant light green, sub waxy, slightly calcareous in part, brittle, splintery; occasional olive brown as above interbedded **LIMESTONE**:cream white, light buff tan white, buff light grey, micro to very fine crystalline, appears sucrosic/silty to occasionally sandy, dolomitic in part, argillaceous in part, **dense with occasional poor intercrystalline porosity, no fluorescence, no show**
805-810	No Sample
810-815	**SHALE**:as above with increase olive to medium brown interbedded **LIMESTONE**:as above
815-824	**SHALE**:light green to light grey green, sub waxy, slightly calcareous in part, occasionally slightly pyritic, splintery medium to dark grey, fine texture, fissile, splintery interbedded **LIMESTONE**:cream white to light buff grey, micro to very fine crystalline, sucrosic/silty to occasionally sandy, appears dolomitic in part, argillaceous in part, **dense with occasional poor intercrystalline porosity, no fluorescence, no show**
	TWIN FALLS 824m (- 35.5m TVDSS)
824-845	**LIMESTONE**:as above becoming grey brown in part & very sucrosic/sandy appearing in part, increasingly argillaceous in part (830m & 840m samples) interbedded **SHALE**:light green, medium to dark grey, occasional black, olive brown, as above

Interval	Description
845-870	**LIMESTONE**:cream white to light buff grey, buff tan in part, mottled in part, micro to fine crystalline, occasionally silty appearing, fragmental/bioclastic in part, dolomitic in part, fossiliferous in part, argillaceous in part, dense interbedded **SHALE**:medium to dark grey,occasional black carbonaceous, light green to grey green, occasional olive to medium brown, fine to sub waxy texture, occasionally calcareous, brittle to fissile, splintery to occasionally sub blocky
870-895	interbedded **LIMESTONE & SHALE**:as above
***** Lost Circulation @ 903m *****	
895-905	??Questionable Interpretation Assumed interbedded **LIMESTONE & SHALE**:as above
905-915	**LIMESTONE**:buff light grey, occasional cream white, mottled in part, micro to fine crystalline, occasionally appears silty, fragmental/bioclastic in part, fossiliferous in part, slightly dolomitic in part, argillaceous in part, dense interbedded **SHALE**:dark grey, occasional carbonaceous black, occasional grey green, fine texture, slightly micro micaceous in part, brittle to firm, splintery to sub blocky abundant Lost Circulation Material:primaseal
915-920	**LIMESTONE**:as above interbedded **SHALE**:as above
920-925	interbedded **LIMESTONE & SHALE**:as above abundant Lost Circulation Material:as above
925-935	**SHALE**:dark grey to black, carbonaceous, slightly micro micaceous in part, fine texture, brittle to firm, splintery to sub blocky interbedded **LIMESTONE**:grey brown, light to medium grey, as above abundant Lost Circulation Material:as above
***** Lost Circulation @ 942m. *****	
935-945	??Questionable Interpretation interbedded **LIMESTONE & SHALE**:as above becoming lighter abundant Lost Circulation Material:as above

Interval	Description
945-950	**SHALE**:dark grey to black, carbonaceous, slightly micro micaceous in part; predominantly grey green, fine to sub waxy texture, calcareous in part, brittle to firm, fissile, blocky to splintery interbedded **LIMESTONE**:cream white, light buff grey white, occasional buff tan to medium brown, micro to fine crystalline, silty to sandy in part, fossiliferous in part, fragmental/bioclastic appearing in part, slightly argillaceous in part, dense decrease abundance Lost Circulation Material:as above
950-955	**SHALE**:light grey green as above, with abundant medium grey, fine texture, sub fissile, splintery to sub blocky interbedded **LIMESTONE**:as above
955-960	??Questionable Interpretation interbedded **LIMESTONE & SHALE**:as above abundant Lost Circulation Material:primaseal (sawdust, celloflake, plastic)
960-975	**LIMESTONE**:cream white to light buff grey, mottled in part, micro to very fine crystalline, sucrosic/silty to occasionally sandy appearing in part, slightly dolomitic in part, fragmental/bioclastic appearing in part, occasionally fossiliferous, dense occasional interbedded **SHALE**:light grey green, fine to sub waxy texture, calcareous, brittle to firm, sub fissile to fissile, splintery to sub blocky
975-985	No Samples

***** Lost Circulation @ 985m *****

985-991	**LIMESTONE**:as above increased interbedded **SHALE**:as above

HAY RIVER SHALE 991m (-202.5m TVDSS)

991-995	**SHALE**:predominantly light to medium green, grey green, abundant medium grey, sub waxy to fine texture, slightly micro micaceous in part, calcareous in part, brittle to sub fissile, splintery occasional interbedded **LIMESTONE**:as above

Interval	Description
995-1020	**SHALE**:dark grey to predominantly black, slightly carbonaceous, slightly micro micaceous in part, fine texture brittle to firm, splintery to sub blocky ??abundant interbedded **LIMESTONE**:light buff grey brown, occasional cream white, light to medium brown, micro to very fine crystalline, sucrosic/silty to occasionally sandy, fragmental in part, slightly dolomitic in part, fossiliferous in part, slightly argillaceous, dense
1020-1025	Lost Circulation Material:primaseal as above, emerald seal ??Questionable Interpretation **SHALE**:as above occasional interbedded **LIMESTONE**:as above
1025-1030	**SHALE**:medium to dark grey, abundant black slightly carbonaceous, abundant light grey green becoming increasingly micro micaceous in part abundant **LIMESTONE**:as above abundant Lost Circulation Material:as above
1030-1035	interbedded **Limestone & Shale** **LIMESTONE**:cream white to light grey, micro to fine crystalline, sucrosic/silty to occasionally sandy appearing, fragmental, fossiliferous, slightly argillaceous in part, dense **SHALE**:predominantly light grey green, abundant medium grey, fine to sub waxy texture, calcareous in part, fissile in part, brittle to firm, splintery to sub blocky
1035-1050	??Questionable Interpretation interbedded **LIMESTONE & SHALE**: as above abundant Lost Circulation Material:primaseal, emerald seal
1050-1067	No Samples

***** Lost Circulation @ 1067m, Set cement plug #2 *****

1067-1075	**SHALE**:predominantly light green to grey green, abundant medium grey, occasional dark grey to carbonaceous black, fine to sub waxy texture, slightly micro micaceous in part, calcareous, predominantly fissile, platey to sub blocky minor traces **LIMESTONE**:cream white to light grey white, crypto to very fine crystalline, occasionally silty to sandy appearing, dense abundant **Cement**:cavings from plug #2

Interval	Description
1075-1080	**SHALE**:as above with increase medium to dark grey, abundant orange and olive brown, fine to medium texture, silty, calcareous, sub blocky minor **LIMESTONE**:as above abundant **Cement**:as above
1080-1095	**SHALE**:predominantly light green to light grey green, abundant dark grey to carbonaceous black, medium grey, as above minor **LIMESTONE**:as above abundant **Cement**:as above
1095-1123	**SHALE**:predominantly light green to light grey green, fissile calcareous, platey to sub blocky; medium to dark grey, abundant black carbonaceous, slightly micro micaceous in part, fine texture, splintery occasional minor **LIMESTONE**:cream white to light grey, crypto to very fine crystalline, dense abundant **Cement**:cavings from plug #2
1123-1130	No Samples

***** Lost Circulation @ 1128m, Run 177.8mm casing *****

1130-1135	??Questionable Interpretation - cement from casing Assumed interbedded **LIMESTONE & SHALE**
1135-1140	predominantly **LIMESTONE**:light grey occasionally mottled with white & buff brown, abundant cream white, micro to very fine crystalline, sucrosic/silty, slightly dolomitic in part, fossiliferous in part, moderately argillaceous, dense **SHALE**:light to medium grey, occasional dark grey to carbonaceous black, fine texture, micro micaceous in part, slightly calcareous in part, sub fissile, soft, splintery to sub blocky
*****NOTE*****	Hard bit grinding formation rather than cutting. Shales probably ground fine enough to be dispersed into mud system.
1140-1145	**LIMESTONE**:as above increase **SHALE**:as above
1145-1150	predominantly **LIMESTONE**:light grey, minor cream white, as above **SHALE**:light to increasingly dark grey, as above; occasional light green grey, sub waxy, sub fissile, soft, splintery

Interval	Description
1150-1155	predominantly **SHALE**:light to medium grey, light green grey in part, minor dark grey, fine texture, appears sub waxy occasionally, micro micaceous in part, sub fissile, soft, splintery to sub platey, occasionally sub blocky interbedded **LIMESTONE**:light to medium grey occasionally mottled with buff brown, occasional cream white, micro to very fine crystalline, sucrosic/silty in part, appears slightly dolomitic in part, moderately to very argillaceous, dense
1155-1160	predominantly **LIMESTONE**:as above interbedded **SHALE**:as above
1160-1175	predominantly **SHALE**:light to medium grey, slight green grey in part, as above interbedded **LIMESTONE**:as above minor disseminated **PYRITE** throughout
1175-1200	interbedded **SHALE & LIMESTONE**:slight increase limestone, as above occasional minor disseminated **PYRITE**
1200-1222	**SHALE**:predominantly light green grey to light grey, occasional medium & dark grey, fine to sub waxy texture, occasionally slightly micro micaceous, slightly calcareous in part, sub fissile, splintery to sub blocky, occasionally sub platey interbedded **LIMESTONE**:buff light grey to buff tan light grey, micro to very fine crystalline, slightly silty appearing in part, slightly dolomitic, moderately to very argillaceous, dense

***** Severe deviation 1161-1205m, plugback to 1169m to motor drill *****

1222-1225	**SHALE**:predominantly light grey to light green grey, abundant medium grey, fine to sub waxy texture, slightly micro micaceous in part, occasional carbonaceous specks, occasionally very slightly calcareous, sub fissile, splintery to sub blocky, occasionally sub platey
1225-1240	**SHALE**:as above with medium to dark grey, occasional dark grey to slightly carbonaceous black, slightly micaceous in part, brittle, splintery

Interval	Description
1240-1255	**SHALE**:light grey to light green grey, abundant medium grey in part, fine to sub waxy texture, slightly micaceous in part, occasional carbonaceous specks, occasionally slightly calcareous, sub fissile, splintery to sub blocky very minor streak **LIMESTONE**: 1250m sample, medium brown, micro to very fine crystalline, dense, argillaceous
1255-1275	**SHALE**:predominantly as above with slight increase medium to dark grey, slightly pyritized in part & black slightly carbonaceous, very occasional brown, fine texture, brittle, sub platey
1275-1285	**SHALE**:light grey to light green grey, as above; becoming predominantly medium to dark grey, occasional slightly carbonaceous black, fine to sub waxy texture, slightly micaceous in part, brittle to sub fissile, splintery to sub blocky very minor steak **LIMESTONE**: 1280m sample, light grey, very fine crystalline, dense, argillaceous
1285-1290	**SHALE**:light to medium grey, green grey in part, fine to sub waxy texture, occasional carbonaceous specks, occasionally slightly calcareous, slightly micaceous in part, brittle to sub fissile, splintery to sub blocky
	BEAVERHILL LAKE 1290m (-501.5m TVDSS)
1290-1305	**SHALE**:light to medium grey, light green grey, becoming predominantly dark grey to occasionally carbonaceous black, fine to sub waxy texture, increasingly calcareous, occasionally slightly micaceous, occasional carbonaceous specks, sub fissile to moderately soft, splintery to blocky; abundant brown to grey brown, very calcareous **LIMESTONE**:brown to grey brown, occasional light grey, chalky, very argillaceous to shaley, crypto crystalline, dense, very argillaceous, grading to limy shale
1305-1315	**SHALE**:light to medium grey, light green grey, abundant medium to dark grey, as above, becoming increasingly calcareous in part; minor brown to grey brown very minor streak **LIMESTONE**:as above
1315-1320	No Sample
1320-1332	**SHALE**:as above with occasional pyritized minor **LIMESTONE**:as above with occasional light grey, micro crystalline, dense, slight to moderately argillaceous

Interval	Description
	MUSKWA 1332m (-543.5m TVDSS)
1332-1337	**SHALE**:black, carbonaceous, slightly micaceous in part, occasionally slightly pyritized, fine texture, brittle, blocky, occasional brown black slightly calcareous in part **LIMESTONE**:grey brown, crypto to very fine crystalline, dense, argillaceous
1337-1359	**LIMESTONE**:chalky cream white, light grey, occasional light brown, crypto to occasionally very fine crystalline, fossiliferous, in part fragmental/bioclastic, dense, slightly argillaceous abundant **SHALE**:possibly interbedded though probably caving, grey green to medium grey, occasional dark carbonaceous grey sub waxy to fine texture, slightly micaceous, calcareous in part, brittle to sub fissile, splintery to sub blocky minor disseminated **PYRITE**
	SLAVE POINT 1359m (-570.5m TVDSS)
1359-1365	**LIMESTONE**:buff tan to medium brown, yellow brown in part, crypto crystalline, occasionally slightly chalky appearing, slightly fossiliferous in part, dense, clean to slightly argillaceous, occasional disseminated pyrite association interbedded **SHALE**:light green, grey green, occasional light to medium grey, sub waxy to fine texture, calcareous in part, occasional disseminated pyrite associated, brittle to sub fissile, sub blocky to blocky
1365-1380	**LIMESTONE**:mottled buff tan light to medium brown, occasional cream white spotting, very fine to fine crystalline, sandy appearing, bioclastic appearing, fossiliferous, **poor to fair intercrystalline porosity, bright white yellow fluorescence, weak pale white cut**, occasionally slightly argillaceous occasional interbedded **SHALE**:light to medium green, medium grey, sub waxy to fine & medium texture, occasional carbonaceous specks, micro micaceous, brittle to sub fissile, splintery to sub blocky
1380-1388	**LIMESTONE**:mottled buff tan to dark brown with cream white spotting, very fine to fine crystalline, bioclastic, fossiliferous, sandy appearing, **porosity, fluorescence & cut as above** interbedded **SHALE**:black, carbonaceous, fine texture, splintery to sub platey

Interval	Description
	FORT VERMILLION 1388m (-599.5m TVDSS)
1388-1404	**LIMESTONE**:abundant mottled buff tan to medium brown with cream white, becoming medium brown & light to medium grey, very fine to fine, becoming crypto to micro crystalline, chalky & anhydritic appearing in part, fragmental in part, fossiliferous in part, sandy in part, **occasional poor intercrystalline porosity becoming predominantly dense, no fluorescence, no cut** interbedded **ANHYDRITE**:buff tan to cream white, massive, occasionally appears as chalky white calcium carbonate precipitate from mud
	WATT MOUNTAIN 1404m (-615.5m TVDSS)
1404-1409	**SHALE**:waxy light to medium green; micaceous pale green white kaolinitic appearing, firm to sub fissile, sub platey to blocky abundant **LIMESTONE**:orange brown, crypto to fine crystalline, fossiliferous, brecciated in part, dense
	SULPHUR POINT 1409m (-620.5m TVDSS)
1409-1419	??Questionable Interpretation - abundant shale cavings **LIMESTONE**:buff to medium brown, light grey, cream chalky white, micro to very fine crystalline, in part appears slightly sucrosic/silty, dense, clean to slightly argillaceous minor interbedded **SHALE**:light to medium grey, medium texture, slightly micro micaceous, blocky
1419.0-1425.6	**CORE #1: Cut 6.6 metres, Recovered 5.94 metres, 9.75 hours**
1425.6-1433.4	**CORE #2: Cut 7.8 metres, Recovered 7.6 metres, 13.50 hours**
1433.4-1439.0	**CORE #3: Cut 5.6 metres, Recovered 5.0 metres, 7.00 hours**
1439-1443	**DOLOMITE**:buff to medium brown, micro to very fine crystalline, sucrosic/silty appearing, **poor intercrystalline porosity, occasional minor black pyrobitumen staining, poor yellow white fluorescence, weak streaming yellow white cut**

Interval	Description
	MUSKEG 1443m (-654.5m TVDSS)
1443-1465	**ANHYDRITE**:buff to light brown, occasional orange brown, cream white in part, occasional chalky cream white calcium carbonate precipitate from mud, massive abundant **DOLOMITE**:buff to medium brown, very fine crystalline, sucrosic/sandy to silty, occasionally anhydritic, **predominantly dense appearing with occasional poor intercrystalline porosity, no show**
1465-1475	**ANHYDRITE**:buff tan to light brown, chalky cream white, calcium carbonate in part, massive minor to abundant **SHALE**:medium to dark grey black, carbonaceous in part, fine to sub waxy texture, brittle to firm, splintery to blocky
1475-1480	**DOLOMITE**:light to medium brown, very fine crystalline, sucrosic/sandy appearing, occasionally slightly anhydritic, **poor to fair intercrystalline porosity, no show** interbedded **ANHYDRITE**:as above
1480-1490	**ANHYDRITE**:buff tan to light brown, chalky cream white, occasional calcium carbonate, massive minor interbedded **DOLOMITE**:as above
1490-1495	**DOLOMITE**:light to medium brown, very fine to fine crystalline, sucrosic/sandy appearing, **fair intercrystalline & abundant vuggy porosity, no show** interbedded **ANHYDRITE**:as above
1495-1505	interbedded **ANHYDRITE & DOLOMITE**:as above, predominantly anhydrite
1505-1510	interbedded **ANHYDRITE & DOLOMITE**:as above, increase dolomite abundant **SHALE**:probably cavings, medium to dark grey, light grey green, minor trace black carbonaceous, fine to sub waxy texture, brittle to sub fissile, occasionally slightly micro micaceous, splintery to sub blocky
1510-1530	??Questionable Interpretation predominantly **SHALE**:medium to dark grey, abundant grey green, occasional black, as above, ??cavings interbedded **ANHYDRITE & DOLOMITE**:as above

Interval	Description
1530-1539	interbedded **ANHYDRITE & DOLOMITE** **ANHYDRITE**:buff to light brown, cream white, mottled in part, massive **DOLOMITE**:buff tan to medium brown, occasionally mottled, very fine crystalline, sucrosic/silty to sandy appearing, anhydritic, **appears dense with occasional poor to fair intercrystalline porosity, no show**
	KEG RIVER 1539m (-750.5m TVDSS)
1539-1545	**DOLOMITE**:light to medium brown, fine crystalline, sucrosic/sandy appearing, **poor intercrystalline porosity, no show**, slight to moderately argillaceous
1545-1560	**DOLOMITE**:light to medium brown, becoming (1555-1560m) dark brown with black pyrobitumen association, fine to occasional medium crystalline, sucrosic/sandy to in part silty, **poor to fair intercrystalline with occasional vuggy & remnant vuggy porosity, scattered weak pale yellow fluorescence, weak slow streaming yellow white cut**
1560-1565	**DOLOMITE**:light to medium brown, occasional dark brown, abundant light grey, as above, **poor intercrystalline porosity, no fluorescence, no show**
1565-1585	**DOLOMITE**:buff tan to medium brown, abundant light grey, occasional abundant dark brown with black pyrobitumen association, fine crystalline, sucrosic/sandy to occasional silty appearance, slightly fragmental/bioclastic appearing, **poor intercrystalline porosity, no fluorescence, no show,** slight to moderately argillaceous minor **SHALE** laminations:light green, grey green to light grey, sub waxy, sub fissile, splintery to sub blocky, slightly micro micaceous
1585-1590	**DOLOMITE**:buff tan to medium brown, occasional dark brown with occasional pyrobitumen staining, fine crystalline, sucrosic/sandy to occasionally silty, appears fragmental/bioclastic in part, **poor intercrystalline porosity, no fluorescence, no show**, slight to moderately argillaceous minor **SHALE** lamination:green grey, sub waxy, sub fissile, sub blocky

WELLSITE GEOLOGICAL STRIPCHART
464860 Alberta Ltd. (403) 246-4234

Well Name: PARAMOUNT et al CAMERON C-75   Location: C-75 60 10'N 117 15'W

U.W.I. : 300C756010117150
Operator : Paramount Resources Ltd.
A.F.E. No: 18103   Province/Territory: NWT
License #: #9211-P33-7-3   Field/Area : Cameron
Contractor: Phelps Drilling Rig #4E

Elevations: Ground: 783.62m   Spud Date : 94-02-17 @ 0900 hrs.
K.B. : 788.47m   Rig Release: 94-03-20 @ 1600 hrs.
T.D. : 1590 m   Well Status: Cased Sulphur Pt. Oil

Hole Size : 311.2mm to 402m   Casing : 244.5mm to 402m
222.2mm to 1130m   : 177.8mm to 1130m
158.8mm to 1590m   : 114.4mm to 1590m

Geologist : W.M.(Mike)WHITE   Foreman : G.Fuchs,F.Pfefferle

Remarks : Tops are sample tops. Sample quality poor to Intermediate casing @ 1130m. Slight increase in quality after. Abundant lost circulation. Plugged back @ 1222m to 1169m.

Interpreted Lithology

Anhyrite; Chert; Dolomite; Gypsum; Limestone; Salt; Siderite, Limonite,; Clay/Claystone/Muds; Shale - Colored; Shale - Light Grey; Shale - Medium Grey; Silt/Siltstone; Sand/Sandstone; Conglomerate/Gravel; Breccia; Glacial Till; Marlstone, Calcareo; Marlstone, Dolomiti; Coal; Metamorphic; Tuff (Volcanics); Igneous; Cement; Cannot Interpret; Questionable Interp; No Sample

Rock Modifier Symbols

Bioclastic or Fragm; Fossils; Anhydritic; Anhydrite, stringer; Argillaceous; Bentonite; Breccia/Fragmental; Calcareous; Carbonaceous; Chalky; Chert-Dark; Chert-Light; Clay; Cement; Cementing Bitumenou; Coal, thin beds; Cryptocrystalline; Dolomitic; Dolomite, stringers; Earthy; Ferruginous; Ferruginous Grains; Ferruginous stringe; Feldspar; Glauconite; Gypsiferous; Gypsum, stringers; Hematite; Kaolin; Lithographic; Lithic; Limonite; Limestone, stringer; Mafic Minerals(dark; Mica; Mineral Crystals; Marlstone, calcareo; Marlstone, dolomiti; Nodules; Pebbles > 2mm.; Pellets; Phosphate Pellets; Potash; Pyrite; Quartz; Salt Cast or Infill; Sand Grains > 1 to; Sandy; Shale-Laminae; Siderite; Siliceous; Slickensided; Siltstone stringers; Silty; Sandstone stringers; Tuffaceous

DEPTH	ROP / TOTAL GAS (%)	GEOLOGICAL DESCRIPTION
400	Set 244.5mm casing @ 402m	
405	94/02/21 0315hrs Day 4; NB #4 ATJ05C 222mm @ 402m	No Sample - Drill out of shoe @ 402m & perform leak-off test
410	Change shaker screens	Sh:m-dk gy,f tex,sl mm,brit-frm,sb blky,occ sb fiss; mnr tr SS:bf gy wh,slt gr,sa,wl srt,sil,con,ti
415	WOB= 12K DaN RPM= 80 SPM= 125 P.P.= 10000	
420	Change screen	Sh:aa; v mnr tr SS:aa
425	Change shaker screens; MUD:SAPP H2O	
430	DEN:1015kg/m3 VIS=29 s/L pH= 10.5	
445		Sh:m-occ dk gy,f tex,occ mm,frm-hd,blky-sb blky,occ sb fis,occ carb ip
470		Sh:aa
480	DS 1.00 deg	
495		Sh:m-dk gy,f-occ m tex,sb wxy ip,mm ip,occ blk-dk gy,sl carb,blky-sb blky,occ sb fis sl bent app ip; v mnr tr SS:clr-frsd,m gr,sr,pr srt,uncon
525		Sh:m-dk gy aa;incr blk-dk gy,carb,plty,occ sb fis,sl mm
535		Sh:pred blk-dk gy,carb,plty-sb blky,brit-frm sl mm,occ fe stn
540		No Sample
545	Kbs @ 543m	SS:clr-frsc lt gy,vf gr,sa-sr,wl srt,sil,fri gd-ex intgran por,n flor,v sl wk yel cut; abnt Sh:m-dk gy,occ blk,occ carb,m-rgh tex, mm ip,brit-frm,plty-sb blky; occ Glau:gn,gran; pred Sh:aa,prob cvg; abnt SS:aa w incr abnt gn Glau gran; abnt Ls:crm wh-lt bf wh,crypto-mi xl,dns,cln sl frag/biocl app ip,pos brec
560	Dwa @ 561m	Ls:crm wh,occ app sl chky,lt bftan-lt brn, crypto-vf xl,dns,cln,frag/biocl app ip, sl brec ip
570	WOB: 16/18K RPM: 140 SPM: 125 P.P.: 10000	Ls:aa ; mnr tr dism Pyr; occ abnt SS:cvg aa
575	DS 0.75 deg	
580	DEN: 1055 VIS: 29	
585		No Samples
605		??Intpt Ls:aa; Sample is 100% LCM - lost circulation @ 612m
615	Lost Circ. 20m3	??Intpt Ls:aa; Sample is 100% LCM
625	WOB: 18K RPM: 140 SPM: 125 P.P.: 10000	??Intpt Ls:aa; Sample is 100% LCM
635	LostCirc@634m 36m3; Bit#4 out@639 237m, 12.75hr Cond: 1-2-I	??Intpt Ls:aa; Sample is 100% LCM - lost circulation @ 634m
640	94/2/22-3 Days 4-5 LostCirc@639m 142m3; NB #5RR ATJ05 222.2mm	Ls:crm wh-lt bftan,mi-occ vf xl,suc/slty app,app dns w intpt pr-fr intxl por,n flor,n shw,cln,frag/biocl app ip,sl chky ip; abnt Sh:m-dk gy,m tex,brit-hd,splty-sb blky, poss cvg thru,aa; abnt Cement:contm f/ plug #1
645	WOB: 18K RPM: 140 SPM: 110 P.P.:	
650		Ls:aa bcm bf lt gy wh ip,incrly vf xl,frag/biocl ip,sl brec ip,suc/slty,occ pr-fr intxl por,n flor,n shw; abnt Sh:cvg thru,aa; abnt Cement:aa
655	LostCirc@659m 7m3	
660		Ls:aa,bcm sl lt-m brn ip,suc/slty-sdy app ip sl brec,frag/biocl ip,pr-fr intxl por aa; abnt Sh:prob cvg aa; abnt Cement:aa; abnt LCM:sawdust,celloflake,primaseal
665	Lost 10m3	
670		??Intpt = Ls:aa; abnt Sh:cvg,m-dk gy,f-m tex,brit-hd,sb plty splty-sb blky,occ sl mm
675	LostCirc@679m	??Intpt = Ls:crm wh-lt bf gy wh,sl mot ip,mi-vf xl,suc/slty-ip sdy,brec ip,pred app dns w occ pr-fr intxl por,n flor,n shw; abnt LCM:aa
685		Ls:lt gy,mot ip,crm wh,vf xl,suc/sdy-slty app,brec ip,pr-fr intxl por,n flor,n shw; abnt Sh:dk gy,occ blk,occ carb,sl mm ip,brit-frm,splty-blky,poss cvg; abnt LCM
690	Clean Trap	Ls:lt gy wh,crm wh,occ bftan wh,mot ip,mi-vf xl,suc/slty-sdy app,sl brec ip,dns w pr-fr intxl por,n flor,n shw; mnr Sh:aa; abnt LCM:sawdust
700	Djm @ 700m; DS 0.50 deg	Ls:aa; sl incr Sh:m-dk gy,f-sb wxy tex,sl mm ip, brit-frm,splty-sb blky;mnr tr lt gy gn; abnt Cement; abnt LCM
705	Dsl @ 706m	Sh:dk gy-blk,app carb ip,v mnr tr gn gy,f-occ med tex,occ sb wxy,brit-frm,splty-sb blky
710	MUD UP Gel Polymer; 94/02/24 Day 7	Ls:bf lt gy-gy wh,mi-vf xl,oxx suc/slty-sdy, grd dol ip,sl brec ip,dns w pr-fr intxl por,n flor,n shw
715	WOB: 18K RPM: 140 SPM: 100 P.P.: 9700	
720	DEN: 1065 VIS: 41 pH: 11.5 WL: 16.0	Ls:crm wh-lt bf gy wh,mi-vf xl,suc/slty-sdy app,app dol ip,sl brec ip,sl arg ip,pr-fr intxl por,n flor,n shw; sl-abnt Sh:aa; occ abnt LCM
735		Ls:bf lt gy-lt gy wh,mi-vf xl,suc/sdy-slty,v dol app ip,mod arg ip,pr-fr intxl por,n flor,n shw; mnr tr Sh:m-dk gy,f-ip sb wxy,brit-frm,splty-sb blky,occ lt gn gy,sl mm
745		No Sample
750		Ls:aa; mnr tr Sh:aa
760		Intbd Ls:aa & Sh:dk gy,f-m tex,abnt gy gn, sb wxy tex,brit-frm,splty-sb blky,ip fis, sl calc ip
775		Intbd Ls:aa & Sh:aa w occ olv brn,f tex, splty,brit-frm
800	DS 1.00 deg	Sh:dk gy-blk,sl carb ip,f tex,brit-mod sft, occ fis,splty-sb blky;abnt lt gn,sb wxy, splty,brit,sl calc ip;occ olv brn aa; Intbd Ls:crm wh,lt bftan wh,bf lt gy,mi-vf xl,suc/slty-occ sdy app,pr-fr por,n shw
805	WOB: 18K RPM: 140 SPM: 100 P.P.: 8500	No Sample
810		Intbd Ls:aa & Sh:aa w incr olv-m brn
815	SPM: 110 P.P.: 7700	Sh:lt gn-lt gy gn,sb wxy,occ sl pyr,fis,sl calc ip,splty;m-dk gy,f tex,fis,splty; Intbd Ls:crm wh-lt bf gy,mi-vf xl,suc/slty-occ sdy ip,app dol ip,arg ip,dns w occ pr intxl por,n flor,n shw
825	Dif @ 824m	Sh:lt gn,m-dk gy,occ blk,olv brn,aa; Intbd Ls:aa bcm gy brn ip & v suc/sdy app ip incr arg ip(830m & 840m spl)
840	DEN: 1055 VIS: 49 pH: 11.0 WL: 10.5	
845		Ls:crm wh-lt bf gy,bftan ip,mot ip,mi-f xl, occ slty app,frag/biocl ip,fos ip,dns,arg ip,dol ip; Intbd Sh:m-dk gy,occ blk carb,lt gn-gy gn, occ olv-m brn,f-sb wxy tex,brit-fis,calc ip,splty-occ sb blky
870		Intbd Ls & Sh: aa
895		LCM; ??Intpt intbd Ls & Sh:aa
900	LostCirc@903m 26m3	
905	DS 0.75 deg; Bypass shaker	Ls:bf lt gy,occ crm wh,mot ip,mi-f xl,occ slty app,fos ip,sl dol ip,frag/biocl ip, dns,arg ip; Intbd Sh:dk gy,occ blk carb,occ gy gn,f tex, sl mm ip,brit-frm,splty-sb blky; abnt LCM
910	WOB: 18K RPM: 140 SPM: 95 P.P.: 6300	
915		Ls:aa; Intbd Sh:aa
920		Intbd Ls & Sh:aa; abnt LCM
925		Sh:dk gy-blk carb,f tex, sl mm ip,brit-frm, splty-sb blky; Intbd Ls:gy brn,lt-m gy,aa; abnt LCM
935	LostCirc@942m 32m3	??intpt intbd Ls & Sh:aa bcm ltr
945	94/02/25 Day 8	Sh:dk gy-blk carb,sl mm ip,pred gy gn,f-sb wxy tex,calc ip,brit-frm,fis,blky-splty; Intbd Ls:crm wh,lt bf gy wh,occ bftan-m brn, mi-f xln,slty-sdy ip,fos ip,app frag/biocl ip,sl arg ip,dns ; decr abnt LCM
950	WOB: 18K RPM: 140 SPM: 90 P.P.: 6500	Sh:lt gy gn,aa w abnt m gy; Intbd Ls:aa
955	DEN: 1070 VIS: 38 pH: 10.0 WL: 12.o	??Intpt intbd Sh & Ls:aa; abnt LCM
960		Ls:crm wh-lt bf gy,mot ip,mi-vf xl,suc/slty-occ sdy app ip,sl dol ip,app frag/biocl ip,occ fos,dns; occ intbd Sh:lt gy gn,f-sb wxy tex,brit-frm, calc,sh fis-fis,splty-sb blky
975	LostCirc@985m 54m3	No Samples
985	LostCirc@985m 54m3; SPM: 70 P.P.: 4000	Ls:aa w incr intbd Sh:aa
990	Dbr @ 991m	Sh:pred lt-m gn,gy gn,abnt m gy,sb wxy-f tex,sl mm ip,calc ip,brit,sh fis-splty; occ intbd Ls:aa
995	DS 0.50 deg	Sh:dk gy-pred blk sl carb ip,sl mm,f tex, brit-frm,splty-sb blky; ??abnt intbd Ls:lt bf gy brn,occ crm wh,lt-m brn,mi-vf xl,suc/slty-occ sdy,frag ip,sl dol ip,fos ip,sl arg ip,dns
1015	WOB: 18K RPM: 140 SPM: 70 P.P.: 5000	
1020		LCM:primaseal(sawdust,celloflake,plastic), emerald seal; ??Intpt Sh:aa w occ intbd Ls:aa
1025		Sh:m-dk gy,abnt blk sl carb,abnt lt gy gn, bcm incrly mm ip; abnt Ls:aa; abnt LCM:aa
1030		Intbd Ls & Sh; Ls:crm wh-lt gy,mi-f xl,frag,fos,app suc/slt-occ sdy,sl arg,dns; Sh:pred gy gn,abnt m gy,f-sb wxy tex,fis ip, calc ip,brit-frm,splty-sb blky; ??Intpt Intbd Ls & Sh:aa
1035		abnt LCM:aa
1040		??Intpt Intbd Ls & Sh:aa; abnt LCM:aa
1045		??Intpt Intbd Ls & Sh:aa; abnt LCM:primaseal & emerald seal
1050	DEN: 1060 VIS: 40 pH: 10.0 WL: 11.0; LostCirc@1067 90m3	No Samples
1065	Bit#5RR 428m,30.00hrs Cond = 1/0/0	
1070	94/2/26-7 Day 9-10; NB #7 222.2mm REED EHP43A in @ 1067m	Sh:pred lt gn-gy gn,abnt m gy,occ dk gy-blk carb,sh wxy tex,sl mm ip,calc,pred fis, plty-sb blky; abnt Cement:cvg f/ plug #2
1075	WOB: 18K RPM: 140 SPM: 75 P.P.: 7000	mnr tr Ls:crm wh-lt gy wh,crypto-vf xl,occ app slty-sdy,dns; Sh:aa w incr m-dk gy,abnt orng-olv brn,f-m tex,slty,calc,sh blky; mnr Ls:aa
1080	SPM: 85 P.P.: 6000	abnt Cement:aa; Sh:pred lt gn-lt gy gn,abnt dk gy-blk carb, m gy,aa; mnr Ls:aa
1085	DEN: 1030 VIS: 38 pH: 12.5 WL: 36.0	abnt Cement:aa
1095	SPM: 100 P.P.: 7000; DS 1.25 deg	Sh:pred lt gn-lt gy gn,fis,calc,plty-sb blky m-dk gy,abnt blk carb,sl mm ip,f tex,splt
1100	94/02/28 Day 11	occ mnr Ls:crm wh-lt gy,crypto-vf xl,dns
1105		abnt Cement:cvg f/ plug #2
1125	LostCirc@1028 60m3; Bit#7 61m,5.00hrs Cond = 1/1/0	No Samples
1130	94/3/01-4 Days12-15; *Set 177.8mm* *Csg @ 1130m*	??Intpt abnt Cement f/ 177.8mm casing; prob intbd Ls & Sh
1135	NB#10RR REED EHP51H in @ 1030m 158.8mm	pred Ls:lt gy occ mot w wh & bf brn,abnt crm wh,mi-vf xl,suc/slty,sl dol ip,fos ip,mod arg,dns; Sh:lt-m gy,occ dk gy-carb blk,f tex,mm ip,sl calc ip,sb fis,sft,splty-sb plty
1140	WOB: 10K RPM: 70 SPM: 55 P.P.: 6700	Ls:aa; incr Sh:aa
1145	DEN: 1030 VIS: 34 pH: 10.5 WL: 15.0	pred Ls:lt gy,mnr crm wh,aa
1150	*(DS 1.9 S86W)	Sh:lt-incr dk gy aa;occlt gn gy,sb wxy,sh fis,sft,splty; intbd Ls:lt-m gy,occ mot wh bf brn,occ crm wh,mi-vf xl,app sl dol ip,sl fos ip,suc/slty ip,mod-occ v arg,dns; Sh:lt-m gy,lt gn gy ip,mnr dk gy,f-occ sb wxy tex,mm ip,sh fis,sft,splty-sb plty,
1155		pred Ls:aa; intbd Sh:aa
1160	*(DS 2.1 N07W); DS 1.50 deg *(DS 2.3 N81W)	Sh:lt-m gy,sl gn gy ip,aa; intbd Ls:aa
1165	RPM: 75	mnr tr dism Pyrite
1170	*(DS 2.2 S64W); *(DS 1.9 S86W)	*PLUGGED BACK TO 1169m TO CORRECT DEVIATION* *NEW HOLE SURVEYS = (DS 2.2 S64W)* *NB #11 = S33F @ 1169m - MOTOR DRILL*
1175	ConnectionGas Survey Gas; DS 2.50 deg	
1180	WOB: 9K RPM: 60 *(DS 1.2 S74W); *(DS 0.6 N79W)	incr Ls:aa
1185	DS 3.75 deg	Sh:aa; *NB #12 = S33F in @ 1184m - MOTOR DRILL*; *Bit #11 15m, 17.5hrs,Cond = 3/4/I*
1190	*(DS 0.0 S66W)	
1195	DS 5.00 deg	
1200	*(DS 0.6 N64W)	Sh:pred lt gn gy-lt gy,occ m & dk gy,f-sb wxy tex,occ sl mm,sl calc ip,sb fis,splty-sb blky,occ sb plty; intbd Ls:bf lt gy-bftan lt gy,mi-vf xl,app sl slty ip,sl dol,mod-v arg,dns
1205	DS 7.75 deg; WOB: 9K RPM: 60 SPM: 55 P.P.: 6700 *(DS 0.4 S71W)	
1215	Bit #10RR 92m,13.00hrs Cond = 1/1/I	Sh:pred lt gn gy-lt gy,occ m & dk gy,f-sb wxy tex,occ sl mm,sl calc ip,sb fis,splty-sb blky,occ sb plty; intbd Ls:bf lt gy-bftan lt gy,mi-vf xl,app sl slty ip,sl dol,mod-v arg,dns
1220	*(DS 0.4 N64W); 94/3/05-8 Days16-19 *Plugback-1169	*Severe deviation 1161-1205m (1.5-7.75 deg)* *Plugback 1222-1169m & Motor drill to fix *
1225	NB#12 158.8mm S33F in 1187m	Sh:pred lt gy-lt gn gy,abnt m gy,f-sb wxy tex,sl mm ip,occ carb spec,occ v sl calc, sh fis,splty-sb blky,occ sb plty
1230	DS 0.4 N59W	Sh:aa w m-dk gy,occ dk gy-sl carb blk,sl mm ip,brit,splty
1235	WOB: 4K *RPM:500 motor* SPM: 55 P.P.: 7000	
1240	DS 0.7 N69W	Sh:lt gy-lt gn gy,abnt m gy ip,f-sb wxy,sl mm ip,occ carb spec,sh fis,splty-sb blky
1245	DEN: 1065 VIS: 53 pH: 10.5 WL: 8.0	v mnr Ls:m brn,mi-vf xl,dns,arg
1250	DS 0.1 N64W	
1255	Bit #12 77m, 14.75hrs Cond = 4/4/I	Sh:pred aa w sl incr m-dk gy occ sl pyr & blk sl carb,v occ brn,f tex,brit,sh plty
1260	94/03/09 Day 20; DS 0.25 deg; NB #13RR EHP51H @ 1261 158.8mm	
1265	WOB: 10K RPM: 70 SPM: 55 P.P.: 7200	
1275	DEN: 1075 VIS: 46 pH: 10.5 WL: 8.0	Sh:lt gy-lt gn gy aa;bcm pred m-dk gy,occ blk sl carb,f-sb wxy tex,sl mm ip,brit-sh fis ip,splty-sb blky
1280	DS 0.75 deg	v mnr tr Ls:lt gy,vf xl,dns,arg
1285		Sh:lt-m gy,gn gy ip,f-sh wxy tex,occ carb spec,occ sl calc,sl mm ip,brit-sh fis, splty-sb blky
1290	Dbl @ 1290m	Sh:lt-m gy,lt gn gy,bcm pred dk gy-occ carb blk,f-sb wxy tex,incrly calc,occ sl mm, occ carb spec,sh fis-mod sft,splty-blky; abnt brn-gy brn,v calc; Ls:brn-gy brn,occ chky lt gy,crypto,arg,shy
1300	WOB: 8K	
1305	DS 2.00 deg	Sh:lt-m gy,lt gn gy,abnt m-dk gy,aa,bcm incr calc ip;mnr brn-gy brn
1310		v mnr Ls:aa
1315	WOB: 5-6K	No Sample
1320	DS 1.75 deg	Sh:aa w occ pyr assoc
1325	WOB: 6/7K	mnr Ls:aa w occ lt gy,mi xl,dns,sl-mod arg
1335	Dmu @ 1332m	Sh:blk,carb,sl mm ip,occ sl pyr,f tex,brit, blky,occ brn blk,sl calc ip; Ls:gy brn,crypto-vf xl,dns,arg; Ls:chky crm wh,lt gy,occ lt brn,crypto-occ vf xl,fos,frag/biocl ip,dns,sl arg
1340	DS 1.50 deg	abnt Sh:pos intbd tho prob cvg,gy gn-m gy, occ dk carb gy,sb wxy-f tex,sl mm,calc ip
1345	DEN: 1100 VIS: 47 pH: 10.0 WL: 8.5	
1350	94/03/10 Day 21	
1360	Dsp @ 1359m; DS 2.00 deg Bit #13RR 102m,25.00hrs Cond = 2/4/I	Ls:bftan-m brn,pred lt gy,crypto xl,occ sl chky app,sl fos ip,dns,occ pyr assoc,arg; intbd Sh:lt gn,gy gn,occ lt-m gy,calc,pyr
1365	NB #14 @ 1363 EHP51H 158.8; WOB: 6/7K RPM: 70/80 SPM: 55 P.P.: 7200	Ls:mot bftan lt-m brn,occ crm wh sp,occ yel brn,vf-f xl,app biocl,fos,sdy app,pr-fr intxl por,bri wh yel flor,wk pale yel wh cut,occ sl arg
1375	WOB: 8K RPM: 90	occ intbd Sh:lt-m gn,m gy,sb wxy-f & med tex occ carb spec,brit-sh fis,splty-sb blky
1380	DS 1.50 deg; WOB: 9/10k RPM: 85/90	Ls:mot bftan-dk brn w crm wh sp,vf-f xl,fos biocl,app sdy,per flor & cut aa; intbd Sh:blk,carb,f tex,splty-sb plty
1390	Dfv @ 1388m	intbd Anhy:bftan-crm wh,occ app chky wh calc carb f/ mud,mas; Ls:abnt mot bftan-m brn w crm wh,bcm m brn & lt-m gy,vf-f bcm crypto-mi xl,chky & anhy app ip,frag ip,fos ip,sdy ip,occ pr por bcm pred dns,no flor,no cut
1400	DS 1.50 deg; DEN: 1100 VIS: 46 pH: 10.0 WL: 9.0	
1405	Dew @ 1404m	Sh:wxy lt-m gn,mica pale gn wh,frm-sb fis,sb plty-blky; abnt Ls:orng brn,crypto-f xl,fos,brec ip,dns
1410	Dst @ 1409m	??Intpt - abnt Sh cvg; Ls:m-m brn,lt gy,crm chky wh,mi-vf xl,app sl suc/slty ip,dns,cln-sl arg; mnr intbd Sh:lt-m gy,m tex,sl mm,blky
1415	Bit #14 56m,13.75hrs Cond = 2/1/I; 94/03/11 Day 22	
1420	NB #15 @ 1419 D.Boart SC278 158.0mm 6.6m,9.75hrs	CORE #1: 1419.0-1425.6m, Rec 5.9m, 9.75hrs; DST #1: 1423.0-1439.0m - Plugged tool; DST #2: 1423.3-1439.0m; DST #5: 1423.5-1431.5m
1425	94/03/12 Day 23; NB #16RR SC278 @ 1426m 7.8m,13.50hrs	CORE #2: 1425.6-1433.4m, Rec 7.6m, 13.50hrs
1435	NB #17RR SC278 @ 1433m 5.6m,7.00hrs; 94/03/13 Day 24	CORE #3: 1433.4-1439.0m, Rec 5.0m, 7.00hrs
1440	94/3/14-5 Days 25-6; NB #19RR EHP51H @ 1439 158.8mm	Dol:bf-m brn,mi-vf xl,suc/slty app,pr intxl por,occ mnr blk pyrbit stn,pr yel wh flor wk stmg yel wh cut
1445	Deg @ 1443m.; WOB: 10K RPM: 70 SPM: 55 P.P.: 7000	Anhy:bf-lt brn,occ orng brn,crm wh ip,occ chky crm wh calc carb f/ mud,mas; abnt Dol:bf-m brn,vf xl,suc/sdy-slty,pred dns app w occ pr intxl por,no shw,occ anhy
1450	DEN: 1100 VIS: 45 pH: 9.5 WL: 8.5	
1460	DS 1.50 deg	Dol:aa
1465	WOB: 12K RPM: 70/80	Anhy:bftan-lt brn,chky crm wh,calc carb ip, mas; mnr-abnt Sh:m-dk gy blk,carb ip,f-sb wxy tex brit-frm,splty-blky
1470	DEN: 1095 VIS: 84 pH: 9.5 WL: 8.5	
1475		Dol:lt-m brn,vf xl,suc/sdy app,pr-fr intxl por,no shw,occ sl anhy; intbd Anhy:aa
1480	Sliced Polyflow Line	Anhy:bftan-lt brn,chky crm wh,occ calc carb, mass; mnr intbd Dol:aa
1490		Dol:lt-m brn,vf-f xl,suc/sdy app,fr intxl & abnt vug por,no shw
1495		intbd Anhy & Dol:aa,pred anhy
1505	WOB: 12K RPM: 70/80 SPM: 55 P.P.: 9000	intbd Anhy & Dol:aa,incr dol; ??abnt Sh:prob cvg,m-dk gy,lt gy gn,f-sb wxy tex,brit-sh fis,occ sl mm,splty-sb blky, mnr tr blk carb
1510	94/03/16 Day 27	??Intpt; pred Sh:m-dk gy,abnt gy gn,occ blk,aa,??cvg; intbd Anhy & Dol:aa
1515	??swab	
1520	DS 0.75 deg ??swab	
1525	DEN: 1070 VIS: 43 pH: 10.5 WL: 16.0	
1530	RPM: 60	Dol:bftan-m brn,occ mot,vf xl,suc/slty-sdy app,anhy,ap dns w occ pr-fr por aa,no shw; intbd Anhy:bf-lt brn,crm wh,mot ip,mas
1535		DST #3: 1534.0-1542.0m
1540	Dek @ 1539m	Dol:lt-m brn,f xl,suc/sdy app,pr intxl por, no shw,sl-mod arg
1545		Dol:lt-m brn,f-occ m xl,suc/sdy-ip slty,pr-fr intxl w occ vug & rmn vug por,scat wk pale yel flor,wk slw stmg yel wh cut
1550		DST #4: 1546.0-1554.0m
1555		Dol:aa bcm dk brn w blk pyrbit assoc
1560		Dol:lt-m brn,occ dk brn,abnt lt gy,aa,pr intxl por,no flor,no shw
1565		Dol:bftan-m brn,abnt lt gy,occ abnt dk brn w blk pyrbit,f xl,suc/sdy-occ slty app,sl frag/biocl app,pr intxl por,no flor,n shw sl-mod arg
1570	WOB: 12K RPM: 65/70 SPM: 55 P.P.: 9500	mnr Sh lam:lt gn,gy gn-lt gy,sh wxy,sh fis, splty-sb blky,sl mm
1580	DEN: 1070 VIS: 60 pH: 10.5 WL: 11.0	
1585	DS 1.00 deg	Dol:bftan-m brn,abnt lt gy,occ abnt dk brn w blk pyrbit,f xl,suc/sdy-occ slty app,sl frag/biocl app,pr intxl por,no flor,no shw; mnr Sh lam:lt gn,gy gn-lt gy,sh wxy,sl mm, sh fis,splty-sb blky
1590	TD @ 1590m 94/03/16 1615 hrs.	

4.i) **CORE SUMMARY**

Core No.	Interval	Formation	Recovery	Comments
1	1419.0-1425.6	Sulphur Point	5.9m	-Jammed off,Ls & mnr Dol
2	1425.6-1433.4	Sulphur Point	7.6m	-Dolomite w/ oil stain
3	1433.4-1439.0	Sulphur Point	5.0m	-Dolomite w/ oil stain

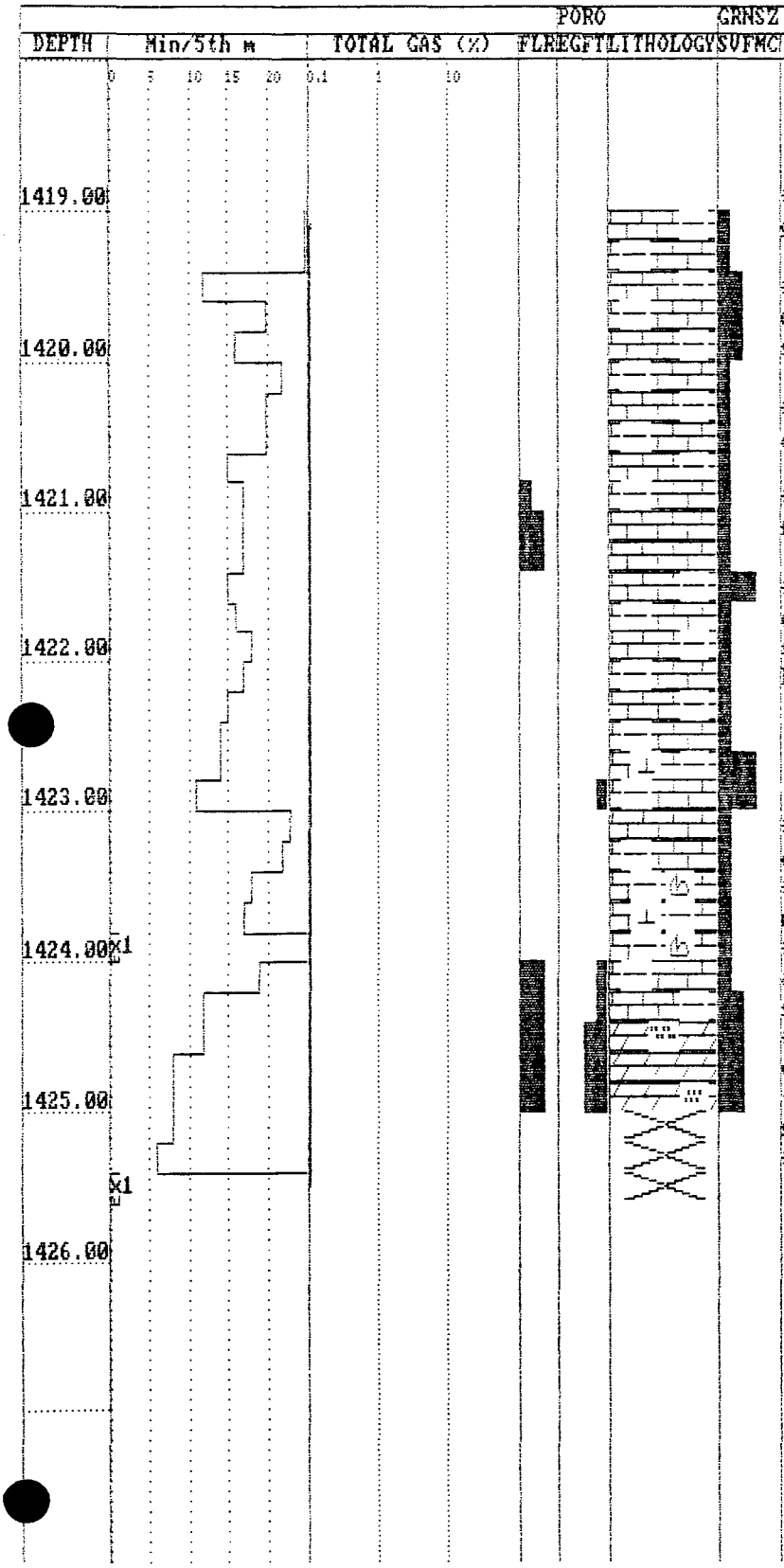
CORE REPORT

WELL NAME: PARAMOUNT et al CAMERON C-75 LOCATION: C-75 60 10'N 117 15'W FIELD/AREA: Cameron

DATE: 94-03-11 TIME: 2100h EXAMINER: W.M.(Mike)WHITE

CORE NO.: 1 INTERVAL: 1419.00 m TO 1425.60 m RECOVERY: 5.94 m CORE SIZE: 67 mm FORMATION: Sulphur Pt

TYPE SDWLL SAMPLER: SDWLL REC. - NO. OF SHOTS: NO. RECOV: NO. OF BOXES: 5



*1419-1419.35m Ls:bf brn lt gy,sl chky app,occ-abnt dk gy & gn Sh lam & ptg thru,crypto-mi xl,dns

*1419.35-1419.95m Ls:aa,bcm m gy (19.44-19.60m) vf xl w crypto xl blebs,Sh lam thru,mod stress frac w occ sl styl grwth

*1419.95-1420.75m Ls:bf brn lt gy,crypto xl,sl chky app dns,Sh lam thru,mnr stress frac

*1420.75-1421.37m Ls:aa w scat weeping oil stn f/ mi frac gn yel-gld yel flor,gd stmg yel wh cut

*1421.37-1422.96m Ls:bf brn lt gy-m gy,pred crypto xl, occ f xl (22.81-22.90m),dns w pos pr intxl por,n flor,n shw,abnt calc assoc; abnt Sh:dk gy,gn,gn gy,sb wxy tex, brit,lam,ptg & assoc,num stress frac thru

*1422.96-1423.50m Ls:bf brn lt gy,crypto xl,chky app, dns,mnr Sh assoc,lam & ptg aa

*1423.50-1424.04m Ls:aa,incr Sh ptg & lam,brec app ip, mnr,stress frac,occ calc blec w lrg calc grwth @ 23.80m

*1424.04-1424.37m Ls:bf brn lt gy aa w dkr brn,occ Sh assoc,pr intxl por,abnt mi frac w/ weeping oil & scat stn thru,brt wh yel & gld yel flor,strng stmg yel wh cut

*1424.37-1424.94m Dol:bf brn-dk brn,abnt dk gy Sh assoc vf xl,suc/slty-occ sdy app,pr-fr intxl w abnt vug por thru,scat oil stn,wk yel wh flor,slw stmg yel wh cut, shatrd & rubly

*1424.94-1425.60m Unrecovered Core - jammed off

START (m)		DEPTH (m)	TIME	MIN/METRE Actual	MIN/METRE Lost	Mud Report & Remarks	WEIGHT daN	r/min	PUMP SIZE Pressure kPa	PUMP SIZE Stroke mm
	0.2	02	0900	25			3-4	50	8500	65
	0.4	04	0925	25						
0.75	0.6	06	0937	13			4-5	90	8500	65
1.00	0.8	08	0947	10						
1.25	1.0	1420	1013	16						
1.50	1.2	02	1035	22						
1.75	1.4	04	1055	20			4-5	100	8500	65
2.00	1.6	06	1117	20						
2.25	1.8	08	1130	15			4-5	120	8500	65
2.50	2.0	1421	1147	17						
2.75	2.2	02	1204	17						
3.00	2.4	04	1222	17						
3.25	2.6	06	1237	15						
3.50	2.8	08	1253	16						
3.75	3.0	1422	1310	18			4-5	120	8500	65
4.00	3.2	02	1327	17						
4.25	3.4	04	1342	15						
4.50	3.6	06	1356	14						
4.75	3.8	08	1410	14						
5.00	4.0	1423	1421	11						
5.25	4.2	02	1444	23						
5.50	4.4	04	1506	22						
5.75	4.6	06	1523	17						
6.00	4.8	08	1542	19						
6.25	5.0	1424	1608	26						
6.50	5.2	02	1627	19						
6.75	5.4	04	1645	18						
7.00	5.6	06	1657	12						
7.25	5.8	08	1705	8						
7.50	6.0	1425	1713	8						
7.75	6.2	02	1720	8						
8.00	6.4	04	1736	16						
8.25	6.6	06	1756	26		Jammed				
8.50	6.8	08								
8	7.0	1426				Hole Sl				
	7.2									
9.00	7.4									
9.50	7.6									
9.75	7.8									
10.00	8.0									
10.25	8.2									
10.50	8.4									
10.75	8.6									
11.00	8.8									
11.25	9.0									
11.50	9.2									
11.75	9.4									
12.00	9.6									
12.25	9.8									
12.50	10.0									
12.75	10.2									
13.00	10.4									
13.25	10.6									
13.50	10.8									
13.75	11.0									
14.00	11.2									
14.25	11.4									
14.50	11.6									
14.75	11.8									
15.00	12.0									
15.25	12.2									
15.50	12.4									
15.75	12.6									
16.00	12.8									
16.25	13.0									
16.50	13.2									
16.75	13.4									
17.00	13.6									
17	13.8									
1	14.0									
17.	14.2									
18.00	14.4									
18.25	14.6									
	14.8									
	15.0									
	15.2									
	15.4									
	15.6									
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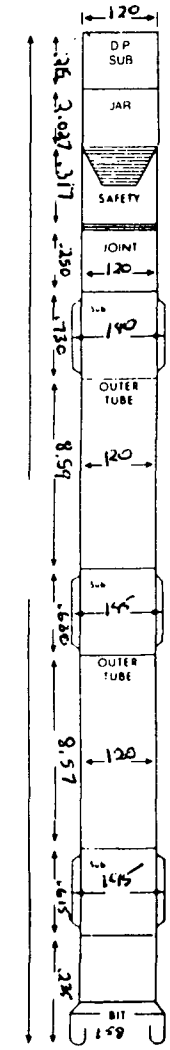
	17.6									
	17.8									
	18.0									
	18.2									

* Delete the column which doesn't apply.



CORING LOG
FROM

BAKER HUGHES INTEQ
A DIVISION OF BAKER HUGHES CANADA INC.

700, 736 - 8 Avenue S.W.
Calgary, AB T2P 1H4
Phone: (403) 296-9700 / Fax (403) 296-9785

Date MARCH 11/94 Service Representative M Dixon

Company PARAMOUNT Contractor Phelps 4E

Well Name/No. PARAMOUNT ETAL CAMERON C-75 60° 10' 117° 15'

Field N WT Hole Size (mm) 159

Diamond Bit Size (mm) 159 x 67 Bit No. 061617

Diamond Bit Type SC-278 Core Barrel Size (mm) 120 x 67 x 18 a

Length (m) 22.17 No. 39 Jar No. 365

Core No. 1 Depth: From 1419 m To 1425. m

Total Metres Cored 6.6 Recovered 6

Hours 9 Formation Cored Sulphur Point

Description Tight Sandstone

Time Reaming To Bottom 1/2 hr

Mud Wt. (kg/m³) 1035 r/min.

Mud Flowrate (m³/min.) .78

Bit Condition: Before Good % After Good %

CORE REPORT

WELL NAME: PARAMOUNT et al CAMERON C-75 LOCATION: C-75 60 10'N 117 15'W FIELD/AREA: Cameron

DATE: 94-03-12 TIME: 1700h EXAMINER: W.M.(Mike)WHITE

CORE NO.: 2 INTERVAL: 1425.60 m TO 1433.40 m RECOVERY: 7.6 m CORE SIZE: 67 mm FORMATION: Sulphur Pt

TYPE SDWLL SAMPLER: SDWLL REC. - NO. OF SHOTS: NO. RECOV: NO. OF BOXES: 6

*1425.60-1425.78m Dol:lt-m brn,bf brn wet,crypto-mi xl, app sl chky,app dns w pr intxl & vug por,v mnr wh yel flor,wk yel cut

*1425.78-1427.00m Dol:brec m-dk brn w bf brn intcl,abnt m gy-gn gy Sh lam & ptg,crypto-vf xl,pr-fr intxl & vug por, scat oil stn thru,wk yel flor,sl bl yel cut

*1427.00-1428.54m Dol:brec aa w decr Sh lam,incrly brec & Sh lam 28.41-28.54m,incr pr-fr vug por,even oil stn thru,com-scat wk pale yel-occ gld yel flor thru,wk bl yel cut

*1428.54-1430.26m Dol:m-dk oil stn brn,occ bf-m brn,mnr Sh lam thru,occ brec,pr-fr intxl & vug por,weeping oil, abnt even bri wh yel-gld yel flor,strng stng gn yel cut

*1430.26-1430.83m Dol:gy brn,occ Sh lam,crypto-mi xl, app pred dns;dk oil stn brn 30.40-30.50m,pr intxl & vug por,weeping oil,brt yel flor,stmg gn yel cut

*1430.83-1432.93m Dol:bf brn-gy brn,pred dk brn oil stn thru,mi-vf xl,occ suc/sity app,occ calc xl grwth w lrg calc grwth @ 32.87m,pr-fr intxl & vug por,occ oozing oil scat-com dull wh yel-bri gld yel flor,fr-gd stmg gn yel cut

*1432.93-1433.20m Dol:bf brn-gy brn occ m oil stn brn, abnt Sh lam,app sl brec ip,crypto-vf xl,app dns,scat pale yel flor,slw stmg wh yel cut

*1433.20-1433.40m Unrecovered Core - jammed off

		DEPTH (m)	TIME	MIN/METRE		Mud Report & Remarks	WEIGHT daN	r/min	PUMP SIZE	
	START	1425.6	2345	Actual	Lost				Pressure kPa	Stroke mm
		.8	0005	20			4-5	45	9000	65
		1426	0030	25			4-5	45	9000	65
	.6	.02	0050	20			4-5	65	9000	65
1.00	0.8	.04	0120	10						
1.25	1.0	.06	0145	15						
1.50	1.2	.08	0130	15						
1.75	1.4	1427	0145	15						
2.00	1.6	02	0200	15						
2.25	1.8	04	0220	20						
2.50	2.0	06	0240	20						
2.75	2.2	08	0305	20						
3.00	2.4	1428	0320	20						
3.25	2.6	09	0340	20			4-5	65	9000	65
3.50	2.8	08	0400	20						
3.75	3.0	06	0420	20						
4.00	3.2	~~1429~~	0440	20						
4.25	3.4	1429	0505	25						
4.50	3.6	02	0540	25						
4.75	3.8	04	0600	20						
5.00	4.0	06	0619	19						
5.25	4.2	08	0625	7						
5.50	4.4	1430	0647	28						
5.75	4.6	02	0715	28						
6.00	4.8	04	0758	53	20	Connection	4-5	75	9000	65
6.25	5.0	06	0834	36						
6.50	5.2	08	0859	25						
6.75	5.4	1431	0916	17						
7.00	5.6	.02	0930	14						
7.25	5.8	.04	0950	20						
7.50	6.0	.06	1007	17						
7.75	6.2	.08	1024	17						
8.00	6.4	1432	1040	16						
8.25	6.6	.02	1057	17						
	6.8	.04	1113	16						
	7.0	.06	1130	18						
	2	.08	1150	20						
	4	1433	1210	14						
	7.6	02	1245	35						
9.75	7.8	04	1315	30		JAMMED				
10.00	8.0	06								
10.25	8.2	08								
10.50	8.4	1434								
10.75	8.6	02								
11.00	8.8	04								
11.25	9.0	06								
11.50	9.2	08								
11.75	9.4	1435								
12.00	9.6	02								
12.25	9.8	04								
12.50	10.0	06								
12.75	10.2	08								
13.00	10.4	1436								
13.25	10.6	02								
13.50	10.8	04								
13.75	11.0	06								
14.00	11.2	08								
14.25	11.4	1437								
14.50	11.6									
14.75	11.8									
15.00	12.0									
15.25	12.2									
15.50	12.4									
15.75	12.6									
16.00	12.8									
16.25	13.0									
16.50	13.2									
16.75	13.4									
17.00	13.6									
17.25	13.8									
	14.0									
	14.2									
18.00	14.4									
18.25	14.6									
	14.8									
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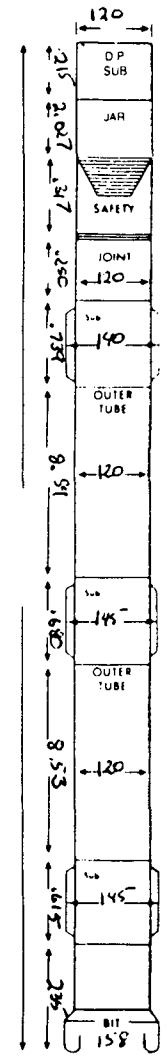


CORING LOG
FROM

BAKER HUGHES INTEQ
A DIVISION OF BAKER HUGHES CANADA INC.

700, 736 - 8 Avenue S.W.
Calgary, AB T2P 1H4
Phone: (403) 296-9700 / Fax (403) 296-9785

Date MARCH 11/99 Service Representative M DIXON

Company Paramount Contractor Phelps #5

Well Name/No. PARAMOUNT ET AL CAMERON C-75-60°10°117°15°

Field N.W.T Hole Size (mm) 159

Diamond Bit Size (mm) 159x67 Bit No. 661617

Diamond Bit Type SC-278 Core Barrel Size (mm) 120x67x18M

Length (m) 22.17 No. 39 Jar No. 365

Core No. 2 Depth: From 1425.6 m To 1433.4 m

Total Metres Cored 7.8 Recovered 7.8

Hours 13½ Formation Cored Sulphur Point

Description Sand stone shale

Time Reaming To Bottom 1hr

Mud Wt. (kg/m³) 1035 r/min.

Mud Flowrate (m³/min.) .78

Bit Condition: Before Good % After Good %

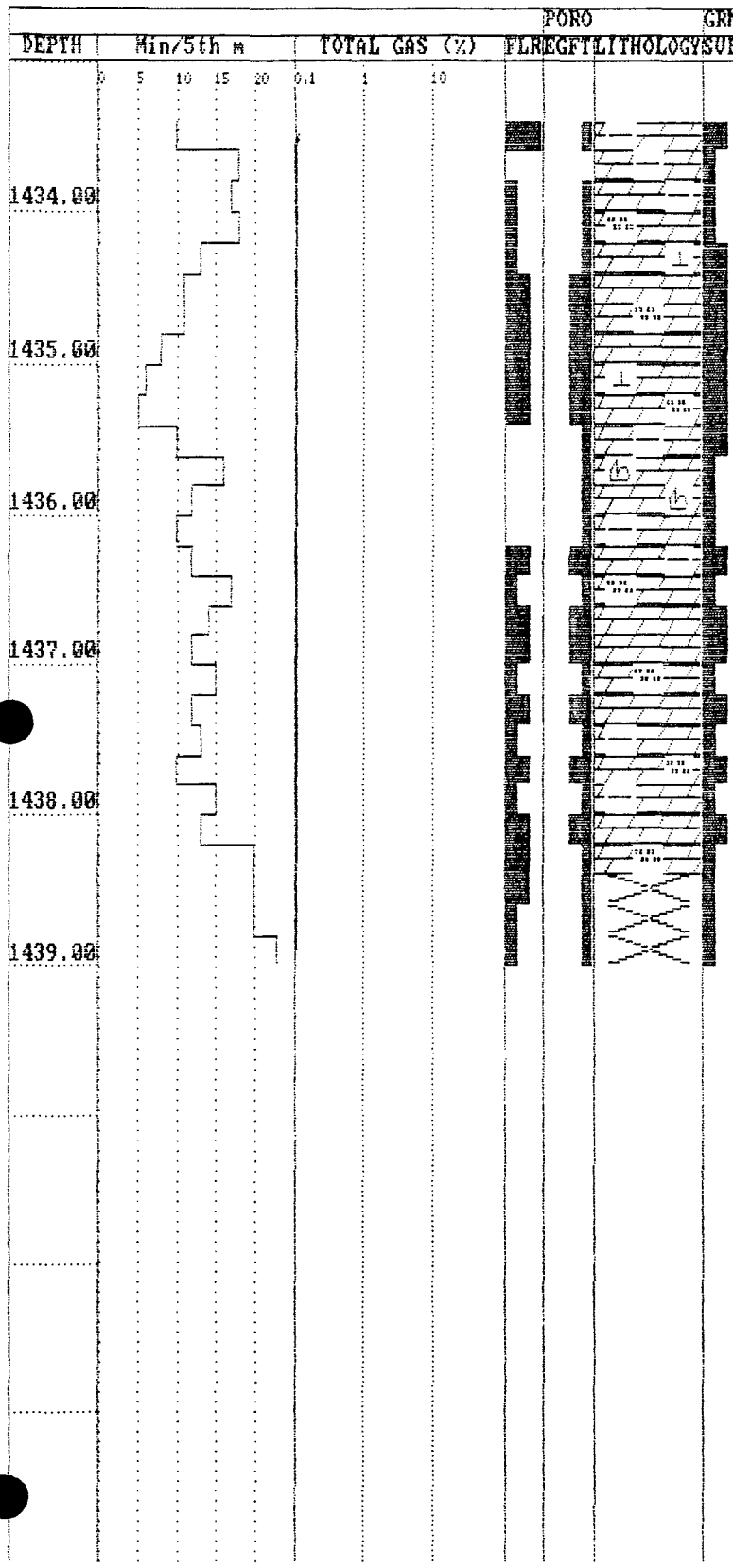
CORE REPORT

WELL NAME: PARAMOUNT et al CAMERON C-75 LOCATION: C-75 60 10'N 117 15'W FIELD/AREA: Cameron

DATE: 94-03-13 TIME: 0630h EXAMINER: W.M.(Mike)WHITE

CORE NO.: 3 INTERVAL: 1433.40 m TO 1439.00 m RECOVERY: 5.0 m CORE SIZE: 67 mm FORMATION: Sulphur Pt

TYPE SDWLL SAMPLER: SDWLL REC. - NO. OF SHOTS: NO. RECOV: NO. OF BOXES: 4



*1433.40-1434.07 Dol:brn gy,mi-vf xl,abnt Sh lam & ptg thru,dns w occ vug por,weeping oil stn 33.49-33.59m,even bri yel flor,stmg gn yel cut,scat bri yel flor 33.59-.79 bri gld yel flor 33.79-33.96m,stmg yel cut

*1434.07-1436.29m Dol:brn-gy brn,pred oil stn,mi-vf xl, suc/slty app - 35.48m,shy & dns app 35.48-35.65m w Sh lam @ 35.65m & 36.09-36.14m,calc grwth thru,app brec 35.65-36.09m,Sh brk @ 36.29m:dk gy,sb wxy,brit;fr vug & intxl por bcm tt 35.48-36.29m,scat-occ even pale-bri yel flor,stmg wh yel-occ gn yel cut

*1436.29-1436.88m Dol:lt-m brn,gy brn,sl-mod oil stn thru,mi-vf xl,suc/slty app,occ Sh lam,pr bcm pr-fr vug & intxl por,scat pale lt yel flor,stmg wh yel cut

*1436.88-1438.40m Dol:dk brn oil stn thru,gy brn surf, mi xl,suc/slty,occ Sh lam thru,pr intxl w pr-fr vug por, scat-occ even pale-bri yel flor,stmg yel cut,rubbly & highly brkn 37.48-38.40m

*1438.40-1439.00m Unrecovered Core - milled, jammed off

START (m)		DEPTH (m)	TIME	MIN/METRE Actual	MIN/METRE Lost	Mud Report & Remarks	WEIGHT daN	r/min	PUMP SIZE Pressure kPa	PUMP SIZE Stroke mm
	0.2	.6	2032	10			4-5	60	9000	65
	0.4	.8	2050	18						
0.75	0.6	1434	2107	17						
1.00	0.8	.02	2123	16			4-5	60	9000	65
1.25	1.0	04	2136	13						
1.50	1.2	06	2147	11						
1.75	1.4	08	2158	11						
2.00	1.6	1435	2206	8						
2.25	1.8	02	2212	6						
2.50	2.0	04	2217	5						
2.75	2.2	06	2227	10						
3.00	2.4	08	2243	16						
3.25	2.6	1436	2255	12						
3.50	2.8	02	2305	10						
3.75	3.0	04	2317	12						
4.00	3.2	06	2334	17						
4.25	3.4	08	2348	14						
4.50	3.6	1437	2400	12						
4.75	3.8	02	0015	15						
5.00	4.0	04	0027	12						
5.25	4.2	06	0040	13			4-5	60	9000	65
5.50	4.4	08	0050	10						
5.75	4.6	1438	0109	19						
6.00	4.8	02	0118	13						
6.25	5.0	04	0138	20						
6.50	5.2	06	0158	20						
6.75	5.4	08	0213	20						
7.00	5.6	1437	0235	23						
7.25	5.8	02				Jammed				
7.50	6.0									
7.75	6.2									
8.00	6.4									
8.25	6.6									
8.50	6.8									
P	7.0									
	7.2									
9.00	7.4									
9.50	7.6									
9.75	7.8									
10.00	8.0									
10.25	8.2									
10.50	8.4									
10.75	8.6									
11.00	8.8									
11.25	9.0									
11.50	9.2									
11.75	9.4									
12.00	9.6									
12.25	9.8									
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12.75	10.2									
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15.75	12.6									
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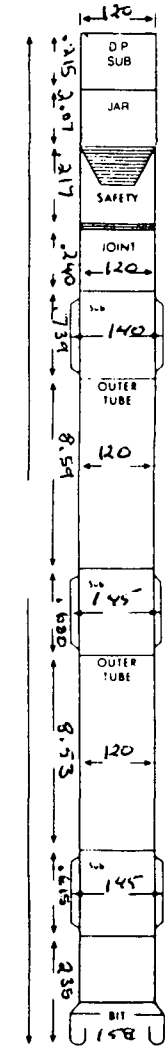


CORING LOG
FROM

BAKER HUGHES INTEQ
A DIVISION OF BAKER HUGHES CANADA INC.

700, 736 - 8 Avenue S.W.
Calgary, AB T2P 1H4
Phone: (403) 296-9700 / Fax (403) 296-9785

Date March 12/94 Service Representative M Dixon

Company Paramount Contractor Pheleps 4E

Well Name/No. Paramount ETAL Cameron C-75-60°10'11"15°

Field N.W.T Hole Size (mm) 159

Diamond Bit Size (mm) 159x67 Bit No. 061617

Diamond Bit Type SC-278 Core Barrel Size (mm) 120x67x18M

Length (m) 22.17 No. 39 Jar No. 36

Core No. 3 Depth: From 1433.4 m To 1439 m

Total Metres Cored 5.4 Recovered 5

Hours 6 Formation Cored Sulphur Point

Description

Time Reaming To Bottom 1/2 hr

Mud Wt. (kg/m³) 1100 r/min.

Mud Flowrate (m³/min.) .78

Bit Condition: Before Good % After Good %

FORM 331

(White) CUSTOMER COPY (Yellow) EDMONTON COPY (Pink) CALGARY COPY

5.i) **WIRELINE LOGGING SUMMARY**

Run No.	Date	Log Type	Interval	Remarks
	94-02-26	Temperature	1065-402m	-Find lost circulation zone
1A	94-02-28	Phasor-SFL-SP	1124-401m	-In combination w/ Sonic
		BHCS-GR-Cal	1113-401m	
1B	94-02-28	CNL-LDT-Pe-EDAC	1126-401m	-DOL (740-540),SS (575-402)
		CVL	1126-401m	-Calculated from EDAC
2A	94-03-16	Phasor-SFL-SP	1584-1130m	-Run in combo w/ CNL-LDT
		CNL-LDT-Pe-DAC	1576-1130m	-GR run to 1130m
		CVL	1576-1130m	-Calculated for 114mm pipe
2B	94-03-17	BHCS-GR-Cal	1577-1130m	-Run in combo w/ Microlog
		Microlog	1584-1130m	

6.i) **WELLSITE DRILL STEM TEST REPORT**

DST #: 1 DATE: 94-03-13

WELLNAME:PARAMOUNT et al CAMERON C-75
LOCATION: I-74 60°10'N 117°15'W INTERVAL: 1423.0 - 1439.0 m KB
FIELD/AREA: Cameron Hills FORMATION: Sulphur Point

TYPE OF TEST: Inflate Bottom Hole COMPANY: Downhole Systems Technology

KB: 788.47m GL: 783.62m TD: 1439 m
HOLE SIZE - DRILLED: 158.8 mm

CASING - SIZE: 177.8 mm WT: 34.2 kg/m SHOE DEPTH: 1130 m

MUD - TYPE: Gel Chem DEN: 1100 kg/m VIS: 43 WL: 8.0
FC: 1.0 mm pH: 10.0

HOLE CONDITION TIME: 0.50 hrs.

TEST TIMES -
STARTED IN HOLE: 11:30 94/03/13 ON BOTTOM: 14:00
PACKER SET: 15:45 PRE-FLOW STARTED: 19:59 (#2)
INIT. SHUT-IN STARTED: 20:18 FINAL FLOW STARTED: :
FIN. SHUT-IN STARTED: : PACKER PULLED LOOSE: 21:30
OUT OF HOLE: 02:30 03/14 TEST POSITIVE: No = plugged tool

BLOW DESCRIPTIONS

TIME	BLOW DESCRIPTION OR FLAIR DESCRIPTIONS (WEAK/FAIR/GOOD/STRONG)	COMMENTS
PRE FLOW	Closed Chamber - see attached report 1st preflow electronics failed. Bring wireline to surface & repair.	2nd preflow tool plugging. GTS in 30 sec, 2% H2S
FIRST SHUT IN	After 10 min preflow shut-in for 60 min. H_2S gas migrating from fluid was reverse circulated. Pulled tool.	Unable to unplug tool so abort remainder of test

CUSHION USED: - 120 Litres, KONTOL & H_2O
CHOKE - SURFACE: n/a BOTTOM: 12.2 mm
MUD LEVEL IN ANNULUS: Full throughout test
WT. OF D.P. - BEFORE: 34000 dN AFTER: dN
WT. ON PACKER: N/A dN WT. PACKER PULLED LOOSE: N/A dN

PRESSURE DATA - RECORDER No: FP1								DEPTH: 1427.00 m
CHART POINTS	IHP	IPFP	FPFP	ISIP	IFP	FFP	FSIP	FHP
PRESSURE	15577	9233	9267	9383				15541
TIME (MIN)		18		34				

BHT: 50.0 deg. C. DEPTH: 1439.0 m TIME ON BOTTOM: 487 min

RECOVERY FLUID

60 metres : gasified oil cut drilling fluid

SAMPLES

No Samples were taken.

ELECTRO[TEST] REPORT

WELL OPERATOR NAME	:	PARAMOUNT RESOURCES LTD.
WELL	:	PARAMOUNT ET AL CAMERON
LOCATION	:	C-75 60 10'N 117 15'W
DST#	:	ONE
INTERVAL TESTED	:	1423.3-1439.0 mKB
FORMATION	:	SULPHUR POINT
DATE	:	03/13/94
Wellsite Rep	:	FRANK PFEFFERLE
Test Engineer	:	ZEIDLER/POWELL
Wireline Operator	:	POWELL
Drilling Contractor	:	PHELPS 4e

WELL DATA

Well Total Depth	:	1439.0 meters
Well Elevations KB	:	788.47 meters
GL	:	783.62 meters
Main Hole Size	:	159.0 mm

WELL PRESSURE SUMMARY

	Pressure	Duration	Graph Ref. #	Time
Initial Hydrostatic:	15577 kPa		1	
Preflow - Start:	7894 kPa		2	20:05
End:	9321 kPa	12 min	3	
Initial Shutin - Start:	9325 kPa		3	20:18
End:	9382 kPa	34 min	4	
Main Flow - Start:	NA kPa		4	
End:	NA kPa	min	5	
Final Shut In - Start:	NA kPa		5	
End:	NA kPa	min	6	
Final Hydrostatic:	15541 kPa		7	
Bottomhole Temperature:	50 deg C			

COMMENTS

This was a partially successful bottom hole test of the Sulpher Point Formation run under closed chamber conditions. When the Flow Valve was first opened after inflating the packers communications with the downhole tools was lost and the Auxiliary Shut In Valve was closed after 6 minutes. During this time the Surface Pressure increased to 1136 kPA. The wireline was retrieved to surface, repaired and run in the well and communications with the electronics re-established. The surface pressure was bled off with gas to surface in 30 seconds. The gas contained 2% H2S.

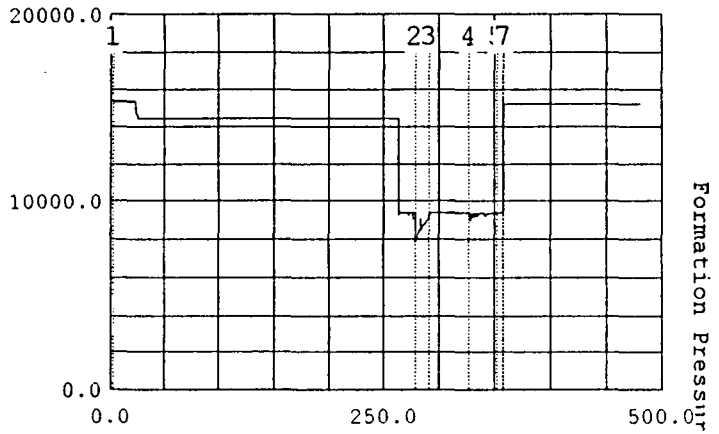
The Main Flow valve was opened for the Preflow. Both the Formation Pressure and Recovery Pressure guages were showing quite high values and there was little response at surface. This is indicative of plugging of the tools inside the string and with some leakage through the plug. During the Initial Shut In the formation pressure did achieve a build up very quickly and was confirmed by the Horner Plot. The Horner Plot data though is too scatterd to determine an accurate P*. After the reservoir pressure was determined attempts were made unsuccessfully to unplug the tool by opening and closing the Flow Valve. The remainder of the test was then aborted.

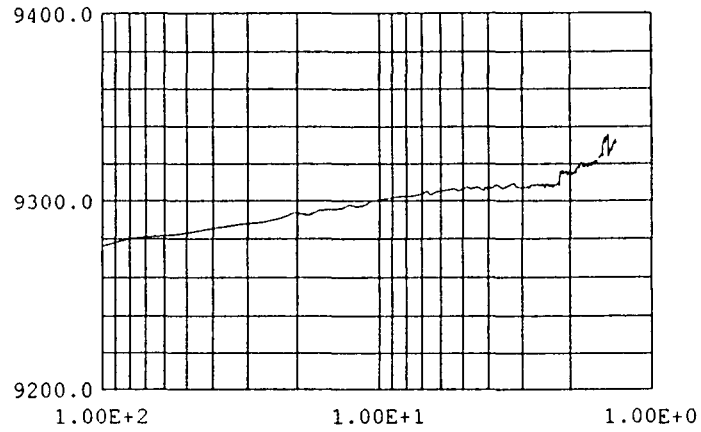
The plugging of the tools above the flow valve with shale was confirmed during servicing.

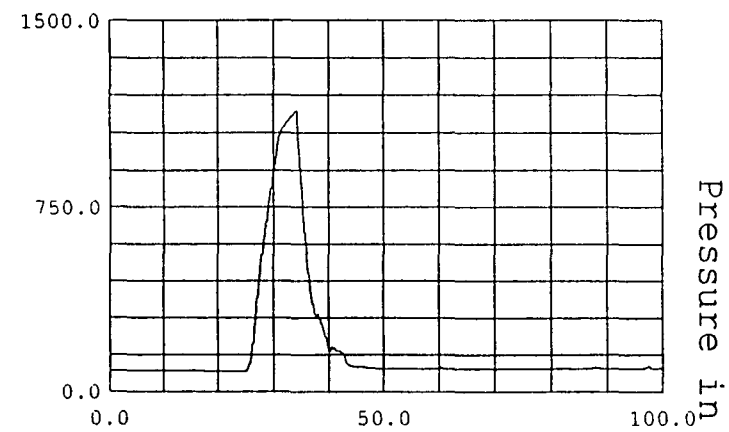
The drill pipe was reverse circulated and because the amount of fluid column coud not be calculated due to the plugging fluid volumes were not determined.

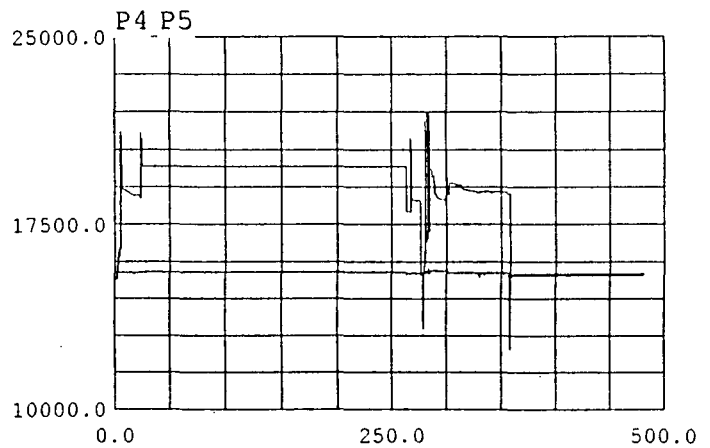
Should you have any questions regarding this report please contact Joe Zeidler at 299 1960.

PARAMOUNT ET AL CAMERON C-75 60 10'N 117 15'W
DST #ONE, SULPHUR POINT, 1423.0-1439.0 mKB









DST #: 2 DATE: 94-03-14

WELLNAME: PARAMOUNT et al CAMERON C-75
LOCATION: C-75 60°10'N 117°15'W INTERVAL: 1423.3 - 1439.0 m KB
FIELD/AREA: Cameron Hills FORMATION: Sulphur Point

TYPE OF TEST: Inflate Bottom Hole COMPANY: Downhole Systems Technology

KB: 788.47m GL: 783.62m TD: 1439 m
HOLE SIZE - DRILLED: 158.8 mm

CASING - SIZE: 177.8 mm WT: 34.2 kg/m SHOE DEPTH: 1130 m

MUD - TYPE: Gel Chem DEN: 1100 kg/m VIS: 45 WL: 8.0
FC: 1.0 mm pH: 10.0

HOLE CONDITION TIME: 2.00 hrs.

TEST TIMES -

	STARTED IN HOLE: 10:15 94/03/14	ON BOTTOM:	12:00
	PACKER SET: 12:45	PRE-FLOW STARTED:	14:00
INIT.	SHUT-IN STARTED: 14:10	FINAL FLOW STARTED:	14:42
FIN.	SHUT-IN STARTED: 15:46	PACKER PULLED LOOSE:	16:47
	OUT OF HOLE: 24:00	TEST POSITIVE:	- YES

BLOW DESCRIPTIONS

TIME	BLOW DESCRIPTION OR FLAIR DESCRIPTIONS (WEAK/FAIR/GOOD/STRONG)	COMMENTS
PRE FLOW	Monitored under Closed Chamber. Inflow of fluids & surface pressure response was moderate. Took on 220m fluid.	Surface pressure increased-715kPa
FINAL FLOW	Run under Closed Chamber till 6021kPa reached. GTS immediately when open to surface. 2%H_2S. Fluid 15min later.	Surface pressure decrease - 187kPa increase w/ fluid
FINAL SHUT IN	Build up of pressure was very fast. Stabilized in 61 min.	

CUSHION USED: - none
CHOKE - SURFACE: BOTTOM: 12.2 mm
MUD LEVEL IN ANNULUS: Full throughout test
WT. OF D.P. - BEFORE: 34000 dN AFTER: dN
WT. ON PACKER: N/A dN WT. PACKER PULLED LOOSE: N/A dN

PRESSURE DATA - RECORDER No: FP1							DEPTH: 1427.3 m	
CHART POINTS	IHP	IPFP	FPFP	ISIP	IFP	FFP	FSIP	FHP
PRESSURE	15554	2288	4074	9378	3894	7393	9333	15236
TIME (MIN)		10		32	63		61	

BHT: 50 deg. C. DEPTH: 1439.0 m TIME ON BOTTOM: 300 min

RECOVERY FLUID

DST was pulled to fluid recovery with test plugs & then reverse circulated.

588 metres (1.88m^3) : 60 metres (200 litres) oil
(guage = 570 metres) 528 metres gassified salt water (110K ppm) & mud

SAMPLES

Samples were taken during final flow when fluid came to surface initially and at the end of final flow period. Sample at end of flow showed oil film.

4 Samples were taken on recovery of test fluid. One sample at both top and bottom of recovery, and two samples in the middle of the recovery.

ELECTRO[TEST] REPORT

WELL OPERATOR NAME	:	PARAMOUNT RESOURCES LTD.
WELL	:	PARAMOUNT ET AL CAMERON
LOCATION	:	C-75 60 10'N 117 15'W
DST#	:	TWO
INTERVAL TESTED	:	1423.3-1439.0 mKB
FORMATION	:	SULPHUR POINT
DATE	:	03/14/94
Wellsite Rep	:	FRANK PFEFFERLE
Test Engineer	:	ZEIDLER/POWELL
Wireline Operator	:	POWELL
Drilling Contractor	:	PHELPS 4e

WELL DATA

Well Total Depth	:	1439.0 meters
Well Elevations KB	:	788.47 meters
GL	:	783.62 meters
Main Hole Size	:	159.0 mm

WELL PRESSURE SUMMARY

	Pressure	Duration	Graph Ref. #	Time
Initial Hydrostatic:	15554 kPa		1	
Preflow - Start:	2012 kPa		2	14:00
End:	4123 kPa	10 min	3	
Initial Shutin - Start:	4521 kPa		3	14:10
End:	9376 kPa	32 min	4	
Main Flow - Start:	3961 kPa		4	14:42
End:	7191 kPa	63 min	5	
Final Shut In - Start:	8321 kPa		5	15:46
End:	9333 kPa	61 min	6	16:47
Final Hydrostatic:	15236 kPa		7	
Bottomhole Temperature:	44.8 deg C			

COMMENTS

This was a successful bottom hole test of the Sulphur Point Formation run under closed chamber conditions for the Preflow during which there was a moderate inflow of fluids and surface pressure response. 220 meters of fluid entered the drill string and the surface pressure increased from atmospheric to 715 kPA. During the Initial Shut In the formation pressure build up was very fast and indicative of formation damage. This allowed the shut in time to be decreased by 30 min. The original formation pressure was reached and confirmed by the Horner Plot.

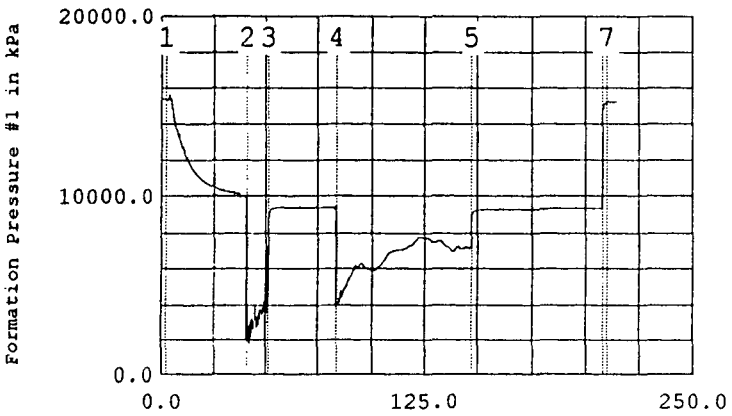
During the Main Flow the fluid inflow and surface pressure response was again moderate. The main flow was run under closed chamber conditions until the formation pressure reached 6021 kPa and then opened to surface. Gas came almost immediately and fluid fifteen minutes later. At the end of the flow period a sample taken at the manifold did show an oil film. The gas produced had an H2S content of 2%. The surface pressure did decrease to 187 kPa and would increase again as it unloaded fluid. A total of 570m fluid was monitored by the recovery guage. The build up of Final Shut In pressure was again very fast and reached stabilized conditions within the reduced time of 61minutes. This was confirmed by the Horner Plot.

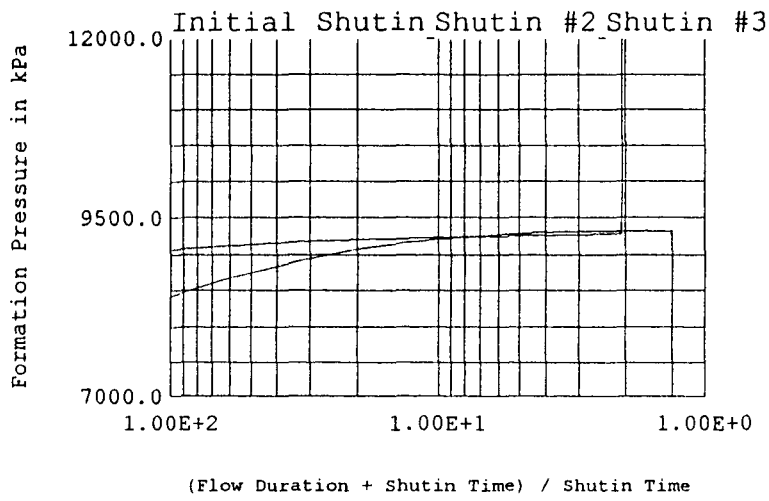
When the drill pipe was pulled the recovery was determined to be 588m(1.88m^3) fluid. This was reversed out and from the pump strokes determined to contain about 200 liters of oil, about 1.58 m^3 of salt water and the about 100 liters of mud.The mud was probably from the annulas and not from the produced fluid as most of the mud from the interval was flowed to the flare pit during the main flow. The salt water was determined to have a salinity of 11% or 110,000ppm by using a refractometer.

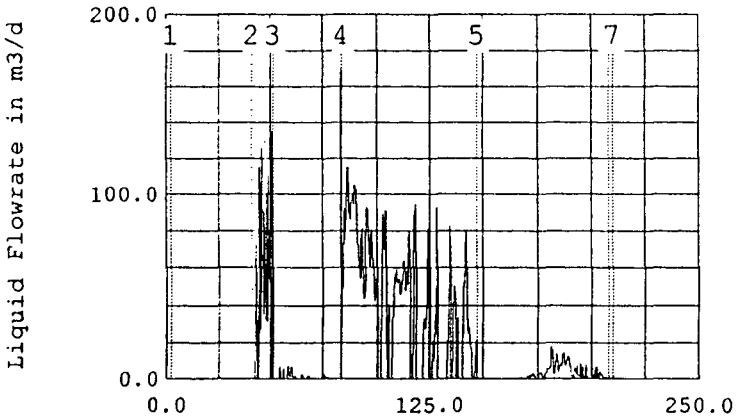
The Fekete analysis indicated that P*= 9419.8 kPa and the extrapolated Final Shut In was 9366.2 kPa. Based upon a Net Pay of 15m and 20% Porosity the Fekete analysis determined a Perrmeability of K= 15.6 md and a Skin of S= +20.

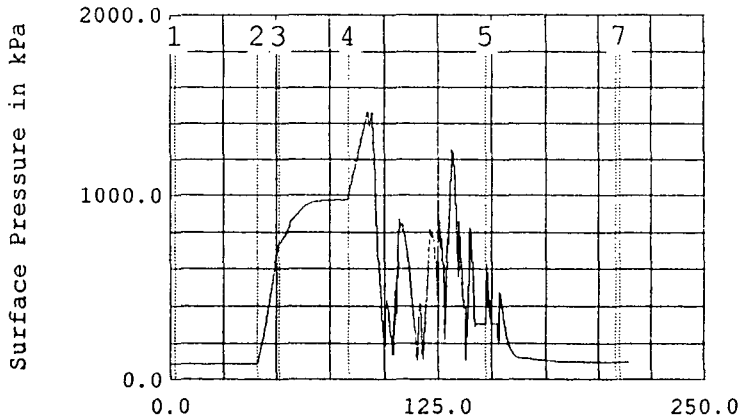
This report includes the real time data and graphs of all pressures recorded downhole and at surface as well as graphs for flow rates and Horner Plots of the shut ins. A disc containing the ASCII formation pressure file and this report is also included. Should you have any questions regarding this report please contact Joe Zeidler at 299 1960.

PARAMOUNT ET AL CAMERON C-75 60 10'N 117 15'W
DST #TWO, SULPHUR POINT, 1423.2-1439.0 mKB









DST #: 3 DATE: 94-03-17

WELLNAME: PARAMOUNT et al CAMERON C-75
LOCATION: C-75 60°10'N 117°15'W INTERVAL: 1534.0 - 1542.0 m KB
FIELD/AREA: Cameron Hills FORMATION: Keg River

TYPE OF TEST: Inflate Straddle COMPANY: McAllister

KB: 788.47m GL: 783.62m TD: 1590 m
HOLE SIZE - DRILLED: 158.8 mm

CASING - SIZE: 177.8 mm WT: 34.2 kg/m SHOE DEPTH: 1130 m

MUD - TYPE: Gel Chem DEN: 1070 kg/m VIS: 65 WL: 9.0
FC: 1.0 mm pH: 10.5

HOLE CONDITION TIME: 0.00 hrs.

TEST TIMES -

STARTED IN HOLE:	11:00 94/03/17	ON BOTTOM:	14:00
PACKER SET:	14:30	PRE-FLOW STARTED:	14:50
INIT. SHUT-IN STARTED:	14:55	FINAL FLOW STARTED:	15:55
FIN. SHUT-IN STARTED:	16:25	PACKER PULLED LOOSE:	17:25
OUT OF HOLE:	03:00 03/18	TEST POSITIVE:	YES

BLOW DESCRIPTIONS

TIME	BLOW DESCRIPTION OR FLAIR DESCRIPTIONS (WEAK/FAIR/GOOD/STRONG)	COMMENTS
PRE FLOW	Very weak air blow, dead in 4 minutes.	
FINAL FLOW	Weak air blow, diminishing throughout. Dead in 25 minutes. No gas to surface.	

CUSHION USED: none
CHOKE - SURFACE: N/A BOTTOM: 19.05mm
MUD LEVEL IN ANNULUS: Full throughout
WT. OF D.P. - BEFORE: 35000 dN AFTER: 35000 dN
WT. ON PACKER: 8000 dN WT. PACKER PULLED LOOSE: 5000 dN

PRESSURE DATA - RECORDER No: 0195 Elec DEPTH: 1536.0 m								
CHART POINTS	IHP	IPFP	FPFP	ISIP	IFP	FFP	FSIP	FHP
PRESSURE	16822	264	304	1839	288	299	1114	16800
TIME (MIN)		5		60	30		60	

BHT: 57 deg. C. DEPTH: 1536.0 m TIME ON BOTTOM: 205 min

RECORDER & MISC. DATA

RECORDER No.	0284	13192	10277	0195	
CAPACITY	Electric	23787	27235	Electric	
CLOCK	1 min	24 hr	24 hr	1 min	
IN/OUT	IN	IN	OUT	OUT	

RECOVERY FLUID

No fluid recovered as indicated by no increase in string weight. Dropped down to run DST #4.

SAMPLES

No Samples - dropped down to 1546m to run DST #4.

McALLISTER PETROLEUM SERVICES LTD.

COMPANY NAME: PARAMOUNT RES
WELL NAME : PARAMOUNT ET AL CAMERON KB ELV 788.5 m
LOCATION : C 75 60 10 117 15 GR ELV 783.6 m
INTERVAL : 1534 TO 1542 TOTAL DEPTH 1590 m
TIME: PF 5 ; ISI 60; 2FL 30 ; 2SI 30

DATE: 94/ 03/ 17
T# 0084 DST # THREE
FORM: KEG RIVER

TEST TYPE: Inf Stdle

RECORDER DATA ALL MEASUREMENTS ARE 'SI'

REC. #	0284	13192	10277	0195
RANGE	ELEC	23787	27235	ELEC
CLOCK	1 Min.	24 Hr.	24 Hr.	1 Min.
DEPTH	1519	1524	1536	1536
O/I	(In)	(In)	(Out)	(Out)

REC #: 0195 | HOLE and PIPE DESCRIPTION

IH	: 16822	Hole Size:	200 mm	Hole Cond:	Good		
FF	: 264	Btm Choke:	19.05 mm	Packer O.D.	170 mm		
FF	: 304	D.Coll ID:	57 mm	B.H. Temp:	57 C		
ISI	: 1839	D.Pipe ID:	70 mm	Mud Drop :	Nil m		
IF	: 288	D.C. Leng:	194.72 m	Amt.Fill :	N/A m		
FF	: 299	D.P. Leng:	1334.76 m	Tool Wt. :	5000 daN		
FSI	: 1114	Wt. Set :	8000 daN	Wt Pulled:	5000 daN		
FH	: 16800	Init. Wt.:	35000 daN	Final Wt :	35000 daN		

TIMES and MUD DESCRIPTION
T.Started; 11:00 Hr | T Opened ; 14:50 Hr | T Out; 3:00 Hr
T.On Btm.; 13:45 Hr | T Pulled ; 17:25 Hr
Mud type . Gel chemical Weight: 1065
Viscosity: 79 Water loss: 10.5

RECOVERY FLUID: Cusion: None
Total _ m of _ m in D.C. & _ m in D.P.
_ m of _
_ m of _
_ m of _
_ m of _
API Gravity: _ Salinity: _ ppm

GAS RATES Measured with: _____

TIME (Min)	ORFICE (mm)	PRESSURE (kPa)	RATE (Cu m/day)
1. _	_	_	_
2. _	_	_	_
3. _	_	_	_
4. _	_	_	_
5. _ N	_ G	_ T	_ S
6. _	_	_	_
7. _	_	_	_
8. _	_	_	_
9. _	_	_	_

REMARKS: Samples to: _ Samplers #
Gas samples # _ # _ Fluid samples # _
PREFLOW: VERY WAB,DEAD IN 4 MIN. NGTS.

SECOND FLOW: WAB, DEAD IN 25 MIN. NGTS.

INFLATE	(Length)
P.O. Sub	.31
P.O. Sub	.31
Inside Rec.	1.73
Hyd. Tool & Sampler	2.39
Squeeze Valve	.36
Inside Rec.	1.53
Jars	1.53
Safety Jt.	.69
Pump	2.64
Screen	1.07
Packer	1.90
TOTAL TOOL ABOVE INTV.	14.46m
DEPTH: 1534 m	
Stub	.50
Prod.Sub	.31
Out.Rec.	1.95
Spacing	4.50
Rec. Sub	.20
Stub	.60
TOT.INTERVAL:	8.06m
DEPTH: 1542 m	
Packer	1.80
Comp. Blank	.32
Dragspring	1.96
TOTAL TOOL:	26.60m

Cust R: F PFEFFERLE
Tester: R Cassidy (551-1870)
Sucessful: Yes

DST #: 4 DATE: 94-03-17

WELLNAME: PARAMOUNT et al CAMERON C-75
LOCATION: C-75 60°10'N 117°15'W INTERVAL: 1546.0 - 1554.0 m KB
FIELD/AREA: Cameron Hills FORMATION: Keg River

TYPE OF TEST: Inflate Straddle COMPANY: McAllister

KB: 788.47m GL: 783.62m TD: 1590 m
HOLE SIZE - DRILLED: 158.8 mm

CASING - SIZE: 177.8 mm WT: 34.2 kg/m SHOE DEPTH: 1130 m

MUD - TYPE: Gel Chem DEN: 1070 kg/m VIS: 65 WL: 9.0
FC: 1.0 mm pH: 10.5

HOLE CONDITION TIME: 0.00 hrs.

TEST TIMES -

STARTED IN HOLE:	17:25 94/03/17	ON BOTTOM:	18:00
PACKER SET:	18:10	PRE-FLOW STARTED:	18:22
INIT. SHUT-IN STARTED:	18:32	FINAL FLOW STARTED:	19:32
FIN. SHUT-IN STARTED:	20:32	PACKER PULLED LOOSE:	22:32
OUT OF HOLE:	03:00 03/18	TEST POSITIVE:	YES

BLOW DESCRIPTIONS

TIME	BLOW DESCRIPTION OR FLAIR DESCRIPTIONS (WEAK/FAIR/GOOD/STRONG)	COMMENTS
PRE FLOW	Strong air blow immediately, remaining strong throughout. No gas to surface.	
FINAL FLOW	Strong air blow immediately. Gas to surface in 4 minutes. Too small to measure. 1 metre lazy flame.	

CUSHION USED: none
CHOKE - SURFACE: N/A BOTTOM: 19.05mm
MUD LEVEL IN ANNULUS: Full throughout
WT. OF D.P. - BEFORE: 35000 dN AFTER: 40000 dN
WT. ON PACKER: 8000 dN WT. PACKER PULLED LOOSE: 5000 dN

PRESSURE DATA - RECORDER No: 0195 Elec DEPTH: 1548.0 m								
CHART POINTS	IHP	IPFP	FPFP	ISIP	IFP	FFP	FSIP	FHP
PRESSURE	16659	1672	4367	10462	5371	10437	10465	16583
TIME (MIN)		10		60	60		120	

BHT: 57 deg. C. DEPTH: 1548.0 m TIME ON BOTTOM: 272 min

RECORDER & MISC. DATA

RECORDER No.	0284	13192	10277	0195	
CAPACITY	Electric	23787	27235	Electric	
CLOCK	1 min.	24 hr	24 hr	1 min.	
IN/OUT	IN	IN	OUT	OUT	

RECOVERY FLUID

1000 metres : 100 metres of oil cut mud
900 metres of water

SAMPLES

1 Sample chamber #104 - 1.0 litres
1 Gas Sampler #6427 - taken during valve opening
8 Fluid Samples : 5 oil samples - top, middle & bottom of oil recovery
3 water samples - top, middle & bottom of recovery
- salinity 100,000 PPM (refractometer)

McALLISTER PETROLEUM SERVICES LTD.

COMPANY NAME: PARAMOUNT RES
WELL NAME : PARAMOUNT ET AL CAMERON KB ELV 788.5 m
LOCATION : C 75 60 10 117 15 GR ELV 783.6 m
INTERVAL : 1546 TO 1554 TOTAL DEPTH 1590 m
TIME: FF 10; ISI 60; 2FL 60 ; 2SI 120

DATE: 94/ 03/ 17
T# 0085 DST # FOUR
FORM: KEG RIVER

TEST TYPE: Inf Stdle

RECORDER DATA ALL MEASUREMENTS ARE 'SI'

REC. #	0284	13192	10277	0195
RANGE	ELEC	23787	27235	ELEC
CLOCK	1 Min.	24 Hr.	24 Hr.	1 Min.
DEPTH	1531	1536	1548	1548
O/I	(In)	(In)	(Out)	(Out)

REC #: 0195 ; HOLE and PIPE DESCRIPTION

IH	:16697	Hole Size:	200	mm	Hole Cond:	Good	
FF	: 1672	Btm Choke:	19.05	mm	Packer O.D.	170	mm
PF	: 4367	D.Coll ID:	57	mm	B.H. Temp:	57	C
ISI	:10462	D.Pipe ID:	70	mm	Mud Drop :	Nil	m
IF	: 5371	D.C. Leng:	194.72	m	Amt.Fill :	N/A	m
FF	:10437	D.P. Leng:	1343.89	m	Tool Wt. :	5000	daN
FSI	:10465	Wt. Set :	8000	daN	Wt Pulled:	5000	daN
FH	:16503	Init. Wt.:	35000	daN	Final Wt :	40000	daN

TIMES and MUD DESCRIPTION
T.Started; 11:00 Hr T Opened ; 18:22 Hr T Out; 3:00 Hr
T.On Btm.; 18:00 Hr T Pulled ; 22:32 Hr
Mud type : Gel Chemical Weight: 1065
Viscosity: 79 Water loss: 10.5

RECOVERY FLUID: Cusion: None
Total 1000 m of 194.72 m in D.C. & 805.28 m in D.P.
100 m of OIL CUT MUD
900 m of WATER
_ m of _
_ m of _
API Gravity: _ Salinity: _ 100K ppm

GAS RATES Measured with: _____

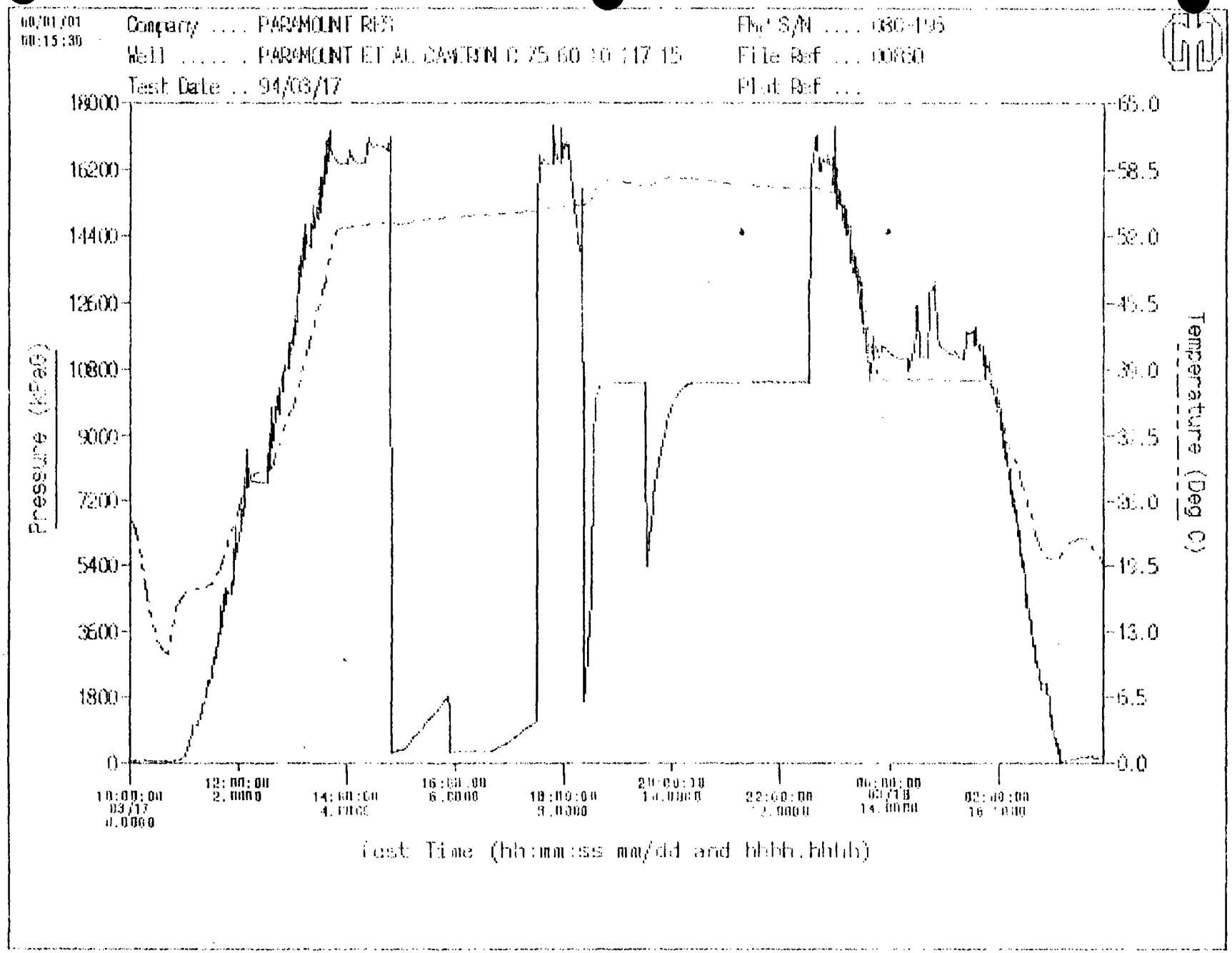
TIME(Min)	ORFICE(mm)	PRESSURE(kPa)	RATE(Cu m/day)
1. _	_	_	_
2. _	_	_	_
3. _	_	_	_
4. _	_	_	_
5. _ T	_ S	_ T	_ M
6. _	_	_	_
7. _	_	_	_
8. _	_	_	_
9. _	_	_	_

REMARKS: Samples to: AGAT Samplers # 104
Gas samples # 6427 # _ Fluid samples # 8
PREFLOW: SAB IMMEDIATELY SAME THROUGHOUT, NGTS.

SECOND FLOW: SAB IMMEDIATELY, GTS IN 4 MIN. LAZY ONE METER FLAME, TSTM.

INFLATE	(Length)
P.O. Sub	.31
P.O. Sub	.31
Inside Rec.	1.73
Hyd. Tool & Sampler	2.39
Squeeze Valve	.36
Inside Rec.	1.57
Jars	1.53
Safety Jt.	.67
Pump	2.64
Screen	1.07
Packer	1.90
TOTAL TOOL ABOVE INTV.	14.46m
DEPTH: 1546 m	
Stub	.50
Prod.Sub	.31
Out.Rec.	1.95
Spacing	4.50
Rec. Sub	.20
Stub	.60
TOT.INTERVAL:	8.06m
DEPTH: 1554 m	
Packer	1.80
Comp. Blank	.32
Dragspring	1.96
TOTAL TOOL:	26.60m

Cust R: F PFEFFERLE
Tester: R Cassidy (551-1870)
Sucessful: Yes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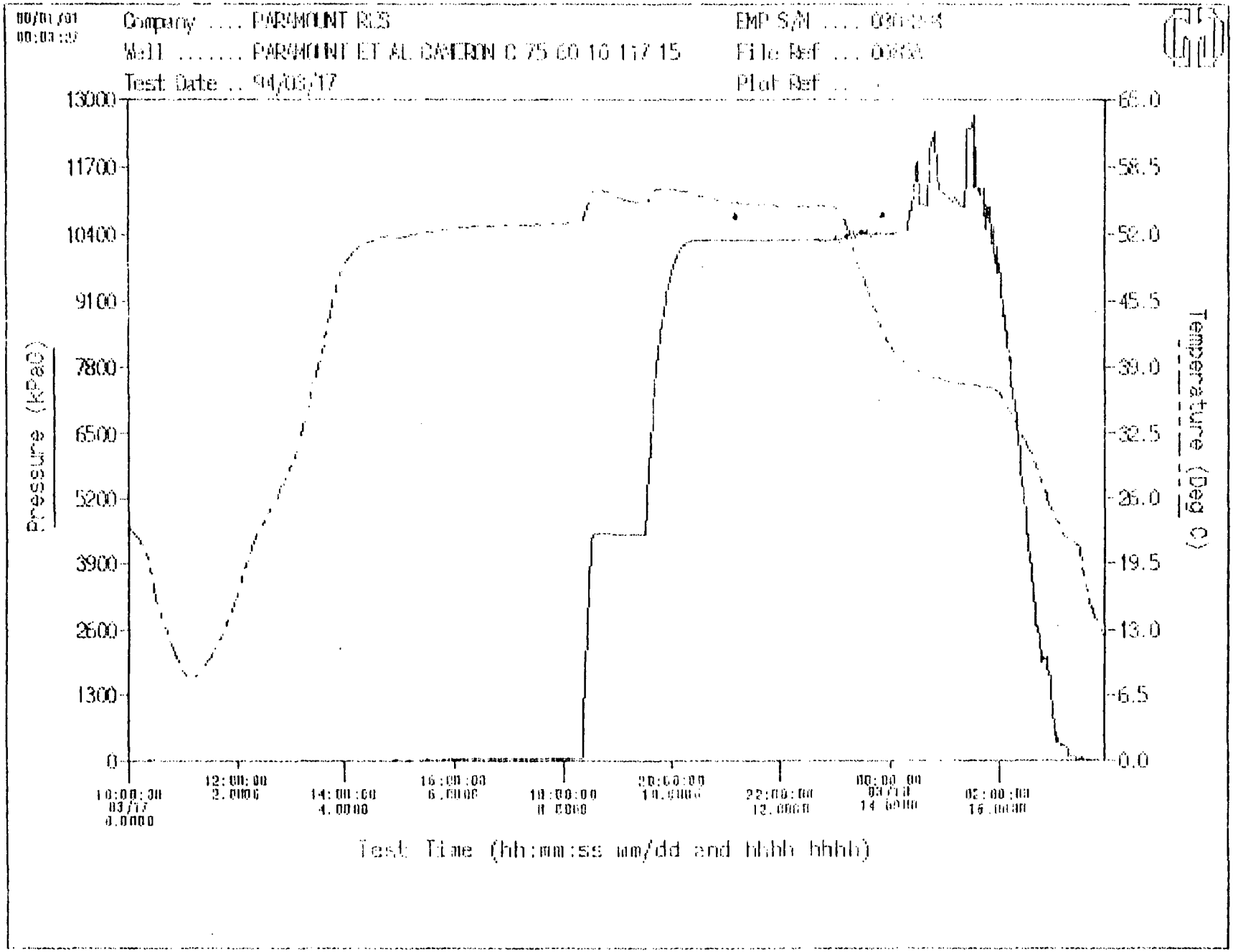
00:15:30
Company .... PARAMOUNT RES
Well ..... PARAMOUNT ET AL CAMERON C 75 60 10 117 15
Test Date .. 94/03/17
Rig S/N 080-195
File Ref ... 00830
Plot Ref ...
18000
16200
14400
12600
10800
9000
7200
5400
3600
1800
0
Pressure (kPag)
65.0
58.5
52.0
45.5
39.0
32.5
26.0
19.5
13.0
6.5
0.0
Temperature (Deg C)
10:00:00
03/17
0.0000
12:00:00
2.0000
14:00:00
4.0000
16:00:00
6.0000
18:00:00
8.0000
20:00:00
10.0000
22:00:00
12.0000
00:00:00
03/18
14.0000
02:00:00
16.0000
Test Time (hh:mm:ss mm/dd and hhhh.hhhh)


00/01/01
00:03:37
Company .... PARAMOUNT RES
Well ..... PARAMOUNT ET AL CAMERON C 75 60 10 117 15
Test Date .. 94/03/17
EMP S/N 0
File Ref ... 0
Plot Ref ... .
13000
11700
10400
9100
7800
6500
5200
3900
2600
1300
0
Pressure (kPaG)
68.0
58.5
52.0
45.5
39.0
32.5
26.0
19.5
13.0
6.5
0.0
Temperature (Deg C)
10:00:30
03/17
0.0000
12:00:00
2.0006
14:00:00
4.0000
16:00:00
6.0006
18:00:00
8.0000
20:00:00
10.0006
22:00:00
12.0006
00:00:00
03/18
14.0000
02:00:00
16.0000
Test Time (hh:mm:ss mm/dd and hhhh hhhh)

DST #: 5 DATE: 94-03-18

WELLNAME: PARAMOUNT et al CAMERON C-75
LOCATION: C-75 60°10'N 117°15'W INTERVAL: 1423.5 - 1431.5 m KB
FIELD/AREA: Cameron Hills FORMATION: Sulphur Point

TYPE OF TEST: Inflate Straddle COMPANY: McAllister

KB: 788.47m GL: 783.62m TD: 1590 m
HOLE SIZE - DRILLED: 158.8 mm

CASING - SIZE: 177.8 mm WT: 34.2 kg/m SHOE DEPTH: 1130 m

MUD - TYPE: Gel Chem DEN: 1080 kg/m VIS: 60 WL: 8.0
FC: 1.0 mm pH: 10.0

HOLE CONDITION TIME: 0.00 hrs.

TEST TIMES -
STARTED IN HOLE: 06:45 94/03/18 ON BOTTOM: 09:00
PACKER SET: 10:10 PRE-FLOW STARTED: 10:21
INIT. SHUT-IN STARTED: 10:31 FINAL FLOW STARTED: 11:31
FIN. SHUT-IN STARTED: 13:01 PACKER PULLED LOOSE: 16:01
OUT OF HOLE: 20:00 TEST POSITIVE: YES

BLOW DESCRIPTIONS

TIME	BLOW DESCRIPTION OR FLAIR DESCRIPTIONS (WEAK/FAIR/GOOD/STRONG)	COMMENTS
PRE FLOW	Fair air blow to Strong air blow in 1 minute. Gas to surface in 7 minutes. 3 metre lazy flame.	Gas migration w/ flame dying out 20min into shutin
FINAL FLOW	Gas to surface immediately. 3 metre lazy flame throughout.	Flame died out 8 min after shut-in

CUSHION USED: 100 Litres KONTOL inhibitor & water
CHOKE - SURFACE: N/A BOTTOM: 19.05mm
MUD LEVEL IN ANNULUS: Full throughout
WT. OF D.P. - BEFORE: 35000 dN AFTER: 36000 dN
WT. ON PACKER: 8000 dN WT. PACKER PULLED LOOSE: 5000 dN

PRESSURE DATA - RECORDER No: 0195 Elec DEPTH: 1425.5 m								
CHART POINTS	IHP	IPFP	FPFP	ISIP	IFP	FFP	FSIP	FHP
PRESSURE	15091	1012	902	9546	725	1046	9410	15000
TIME (MIN)		10		60	90		180	

BHT: 57 deg. C. DEPTH: 1425.5 m TIME ON BOTTOM: 421 min

RECORDER & MISC. DATA

RECORDER No.	0284	13192	10277	0195	
CAPACITY	Electric	23787	27235	Electric	
CLOCK	1 min	24 hr	24 hr	1 min	
IN/OUT	IN	IN	OUT	OUT	

RECOVERY FLUID

180 metres of KONTOL inhibitor & water & ammonia

SAMPLES

1 Sample Chamber #110 - 1.0 litres
1 Gas Sampler #6711 - taken during valve opening
3 Samples of recovery fluid - top, middle & bottom (salinity 19,300 PPM)

COMPANY NAME: PARAMOUNT RES | DATE: 94/ 03/ 18
WELL NAME : PARAMOUNT ET AL CAMERON KB ELV 788.5 m | T# 0086 DST # FIVE
LOCATION : C 75 60 10 117 15 GR ELV 783.6 m | FORM: SULPHUR POINT
INTERVAL : 1423.5 TO 1431.5 TOTAL DEPTH 1590 m |
TIME: FF 10; ISI 60; 2FL 90 ; 2SI 180 | TEST TYPE: Inf Stdl-

RECORDER DATA ALL MEASUREMENTS ARE 'SI' | INFLATE (Length)

REC. #	0284	13172	10277	0195
RANGE	ELEC	23787	27235	ELEC
CLOCK	1 Min.	24 Hr.	24 Hr.	1 Min.
DEPTH	1408.5	1413.5	1425.5	1425.5
O/I	(In)	(In)	(Out)	(Out)

REC #: 0195 | HOLE and PIPE DESCRIPTION

IH	15091	Hole Size:	159	mm	Hole Cond:	Good	
FF	1012	Btm Choke:	19.05	mm	Packer O.D.	140	mm
FF	902	D.Coll ID:	57	mm	B.H. Temp:	57	C
ISI	9546	D.Pipe ID:	70	mm	Mud Drop :	Nil	m
IF	725	D.C. Leng:	194.72	m	Amt.Fill :	N/A	m
FF	1046	D.P. Leng:	1219.14	m	Tool Wt. :	5000	daN
FSI	9410	Wt. Set :	8000	daN	Wt Pulled:	5000	daN
FH	15000	Init. Wt.:	35000	daN	Final Wt :	36000	daN

TIMES and MUD DESCRIPTION
T.Started; 7:50 Hr | T Opened ; 10:21 Hr | T Out; 20:00 Hr
T.On Btm.; 9:00 Hr | T Pulled ; 16:01 Hr |
Mud type : Gel chemical Weight: 1065
Viscosity: 79 Water loss: 10.5

RECOVERY FLUID: Cusion: 50 LITRES INHIBITOR
Total 180 m of 180 m in D.C. & _ m in D.P.
180 m of CORBAN AMMONIA
_ m of _
_ m of _
_ m of _
API Gravity: _ Salinity: 17,300 PPM

GAS RATES Measured with: _____

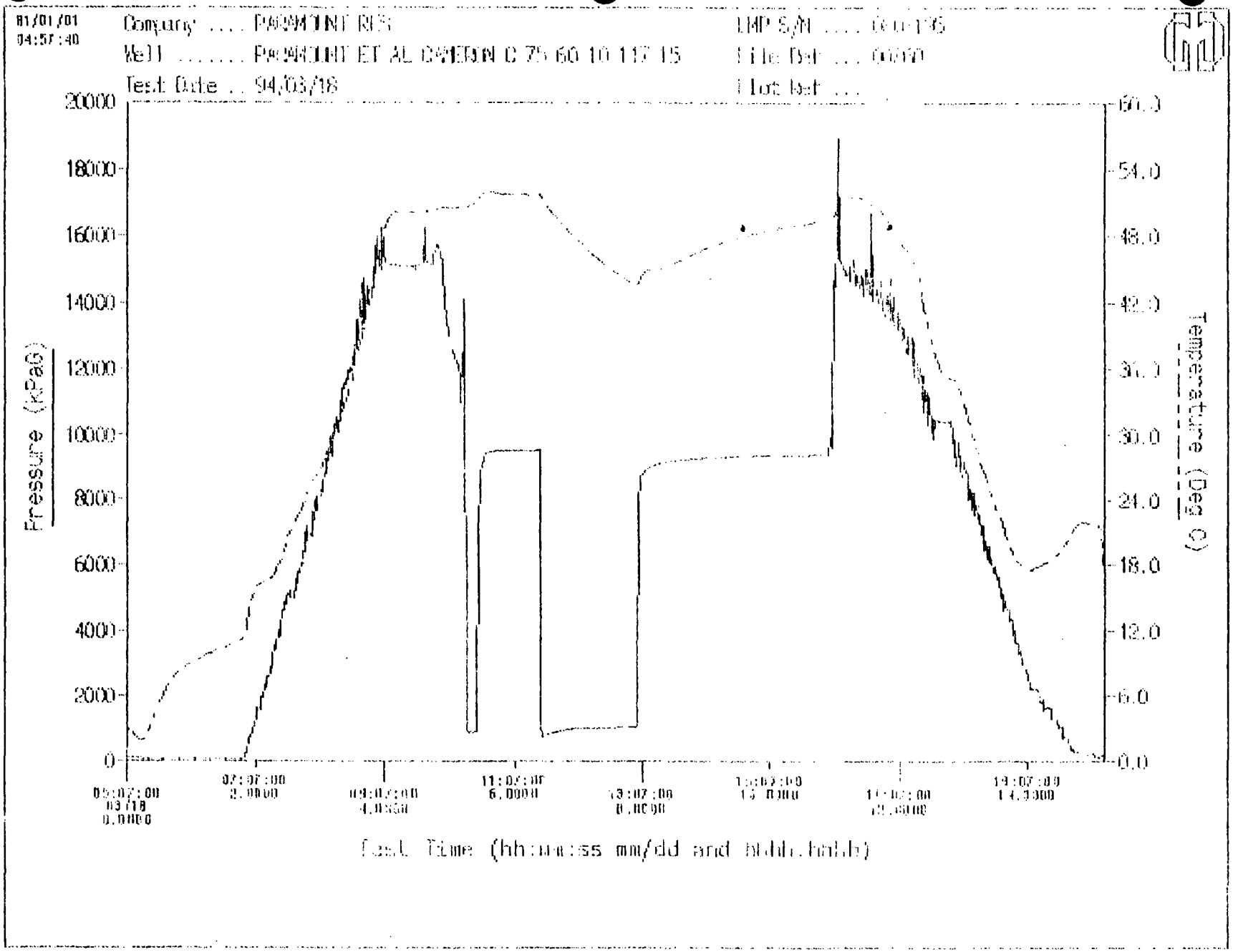
TIME(Min)	ORFICE(mm)	PRESSURE(kPa)	RATE(Cu m/day)
1. _	_	_	_
2. _	_	_	_
3. _	_	_	_
4. _	_	_	_
5. _ T	_ S	_ T	_ M
6. _	_	_	_
7. _	_	_	_
8. _	_	_	_
9. _	_	_	_

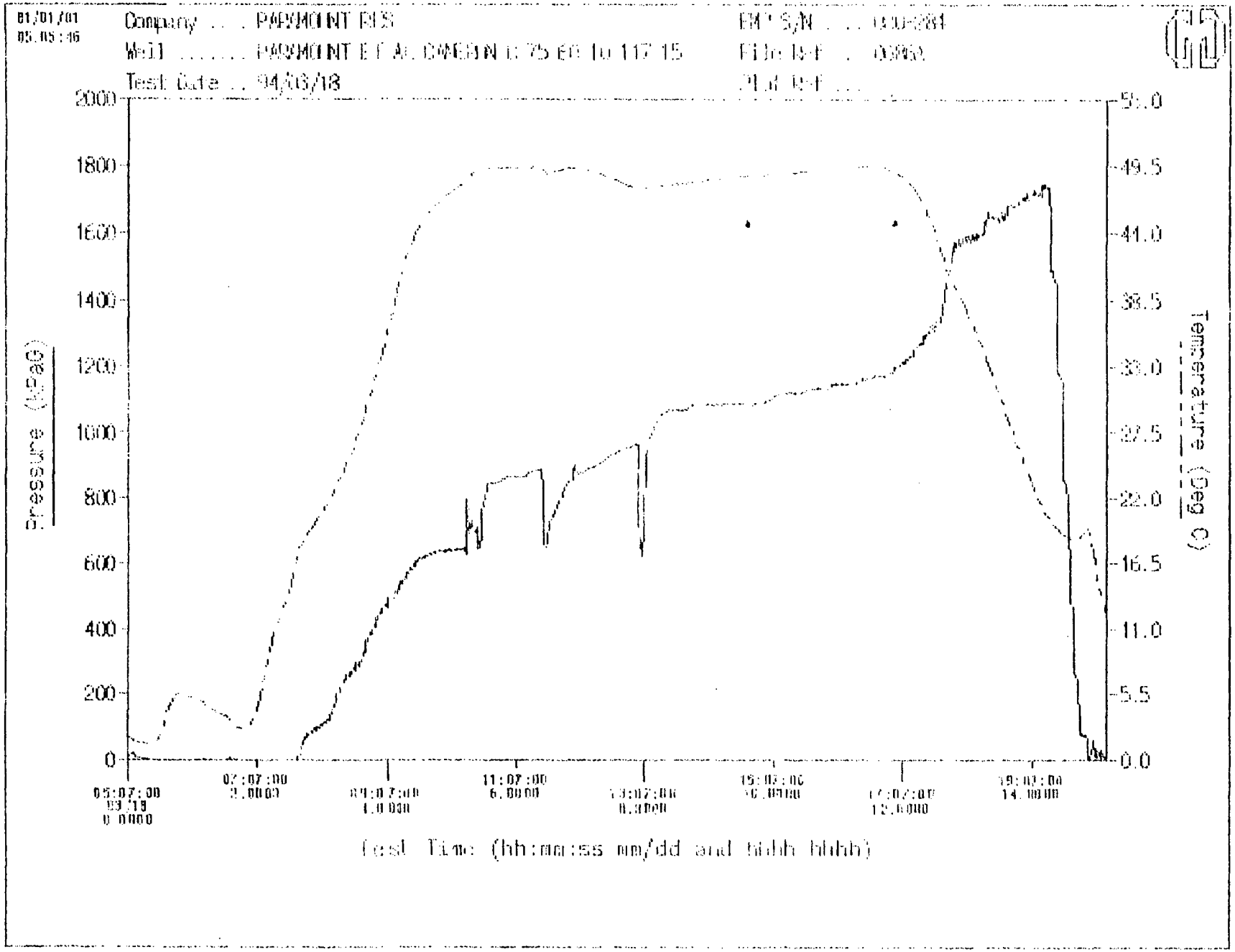
REMARKS: Samples to: AGAT Samplers # 110
Gas samples # 6711 # _ Fluid samples # 3
PREFLOW: FAB TO SAB IN 1 MIN. GTS IN 7 MIN, 3 METER LAZY FLAME.

SECOND FLOW: GTS IMMEDIATELY ,TSTM. LAZY 3 METER FLAME.

P.O. Sub	.31
P.O. Sub	.31
Inside Rec.	1.73
Hyd. Tool & Sampler	2.39
Squeeze Valve	.34
Inside Rec.	1.33
Jars	1.53
Safety Jt.	.67
Pump	2.64
Screen	1.07
Packer	1.70
TOTAL TOOL ABOVE INTV.	14.46m
DEPTH: 1423.5m	
Stub	.50
Prod.Sub	.31
Out.Rec.	1.95
Spacing	4.50
Rec. Sub	.30
Stub	.40
TOT.INTERVAL:	8.06m
DEPTH: 1431.5m	
Packer	1.80
Comp. Blank	.32
Dragspring	1.96
TOTAL TOOL:	26.60m

Cust R: F PFEFFERLE
Tester: R Cassidy (551-1870)
Sucessful: Yes


01/01/01
04:57:40
Company .... PRESIDENT RES
Well ..... PRESIDENT ET AL SWEDEN C 75 60 10 117 15
Test Date .. 94/03/18
LMP S/N 0000135
File Ref ... 0000
Plot Ref ...
Pressure (kPaG)
Temperature (Deg C)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
60.0
54.0
48.0
42.0
36.0
30.0
24.0
18.0
12.0
6.0
0.0
05:07:00
03/18
0.0000
07:07:00
2.0000
09:07:00
4.0000
11:07:00
6.0000
13:07:00
8.0000
15:07:00
10.0000
17:07:00
12.0000
19:07:00
14.0000
Test Time (hh:mm:ss mm/dd and hh.hh.hh)


01/01/01
05:05:46
Company . . . PAYMONT RES
Well . . . . . PAYMONT E F A: OMEGA N 75 en to 117 15
Test Date . . 94/06/18
BHP S/N . . .
File Ref . .
Plot Ref . . .
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Pressure (psig)
50.0
49.5
41.0
33.5
33.0
27.5
22.0
16.5
11.0
5.5
0.0
Temperature (deg C)
05:07:00
06/18
0.0000
07:07:00
2.0000
11:07:00
6.0000
15:07:00
10.0000
19:07:00
14.0000
Test Time (hh:mm:ss mm/dd and hhhh hhhh)

7. CHRONOLOGICAL DAILY DRILLING SUMMARY

DATE	DAY FROM SPUD	DEPTH @ 0001h	PROG	STATUS @ 0001h
94-02-17	0	0m	0m	Spud **311.2mm surface hole** @ 0900hrs.
94-02-18	1	163	163	Drilling surface hole w/ Bit #1A
94-02-19	2	387	224	Wiper tripping prior to casing depth
94-01-20	3	402	15	Waiting on cement, Nippling up BOP's
94-01-21	4	402	0	Pressure testing
94-02-22	5	639	237	Attempting to regain lost circulation
94-02-23	6	639	0	WOC, plug #1 to heal lost circulation
94-02-24	7	710	71	Circulating to condition contaminated mud
94-02-25	8	942	232	Rebuilding volume after lost circulation
94-02-26	9	1067	125	Build volume prior to POOH to Temperature Log
94-02-27	10	1067	0	Mixing LCM pill prior to cement plug #2
94-02-28	11	1099	32	Drilling **222.2mm main hole** w/ NB #7 (EHP43A)
94-03-01	12	1128	29	RIH to clean out to run 177.8mm casing
94-03-02	13	1130	2	Running 177.8mm casing
94-03-03	14	1130	0	Waiting on 3.5" drilling equipment & DP
94-03-04	15	1130	0	POOH w/ NB #9 **(158.8mm)** to unplug jets
94-03-05	16	1222	92	Surveying to find extent of dogleg
94-03-06	17	1222	0	Waiting on open hole cement plug #3 to harden
	***** Plugback to 1169m, with PLUG #3 to correct deviation *****			
94-03-07	18	1170	-52	Motor drilling to correct deviation, NB #11
94-03-08	19	1187	17	Motor drilling w/ NB #12
94-03-09	20	1261	74	RIH w/ rotary assembly & Bit #13RR
94-03-10	21	1350	89	Rotary drilling 158.8mm hole
94-03-11	22	1417	67	Drilling w/ NB #14
94-03-12	23	1426	9	Cutting Sulphur Point Core #2
94-03-13	24	1437	11	Cutting Sulphur Point Core #3
94-03-14	25	1439	2	Reverse circulate DST #1 (misrun) fluid
94-03-15	26	1439	0	POOH & recover DST tool #2 (1423.3-1439.0)
94-03-16	27	1512	73	Drilling 158.8mm hole w/ Bit #19RR
94-03-17	28	1590	78	TD @ 1615 hrs, 03/16. Log w/ Schlumberger
94-03-18	29	1590	0	Reverse circulate DST #4 (1546-1554m)
94-03-19	30	1590	0	RIH to condition hole for 114.4mm liner
94-03-20	31	1590	0	RIH w/ drill string to POOH sideways Rig Release 94-03-20 @ 1600 hrs.