

HOME

SILT LAKE SOUTH G-21

9211-H5-1-3



Nova Scotia	☐	West Coast	☐	Exploratory	☒
Newfoundland	☐	Northern	☒	Development	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	Delineation	☐
				Service	☐

AUTHORITY TO DRILL A WELL

APPLICATION

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

Well Name in Full: Home Silt Lake South G-21
Operator: Home Oil Company Limited Drilling Program No.: N/A
Contractor: Hi Tower Drilling Permit or Lease No.: Exploration Permit # 173
Drilling Rig or Unit: Rig 17 Estimated Well Cost: 1,086,000 (Drill only)
Location-Unit: G Section: 21 Grid Area: 60-10-118-45
Coordinates: Lat: 60° 00' 24.9" N Long: 118° 49' 24.3" W
Area: West Cameron Hills Field/Pool: N/A (ASL)
Elevation-RT/KB: 625 m (ASL) ~~5200~~ Ground 621 m (approx.) ~~1800~~
Approx. Spud Date: 84-12-15 Estimated Days on Location: 30
Anticipated Total Depth: 1865 m Target Horizon(s) Slave Point, Sulphur Point, Keg River
(WI: 300G216010118450)

EVALUATION PROGRAM

Ten-metre sample intervals 0 m - F.T.D.
Five-metre sample intervals 0 m - F.T.D.
Canned sample intervals Every 10 m from surface casing to F.T.D.
Conventional cores at Slave Point at 1519 m, possible Sulphur Point at 1588 m
Logs and Tests DILL-SP, BHCS-GR-CAL, CNL-FDC-CAL, Dipmeter, Velocity Survey, DST's: Slave Point, Sulphur Point, Keg River

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth Below Seafloor:	Cementing Program (Volumes):
339.7 mm	81.3 kg/m	JERW	125 m	125 m - 0 m Class "G" 12 m ³
244.5 mm	53.6 kg/m	K-55	500 m	500 m - 0 m Class "G" 22 m ³
177.8 mm	34.2 kg/m	K-55	1865 m	1865 m - 400 m Class "G" 32 m ³

NOTE: Should severe lost circulation be encountered the well will be cased:

114 mm	17.2 kg/m	K-55	1600 - 1865 m	1600 m - 1865 m Class "G" 3.5 m ³
--------	-----------	------	---------------	--

B.O.P. Equipment: Manifold 21 MPa c/w Hydraulic choke and HCR
Surface Hole: 14 MPa Divertor / Spool / Casing Head
Main Hole: 21 MPa Annular / Blind / Spool / Pipe

Other Information:

Signed: [Signature] Title: M.G. Wilcox, P. Eng., Chief Drilling Eng.
Date: 1984-11-15 Company: Home Oil Company Limited

APPROVAL

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

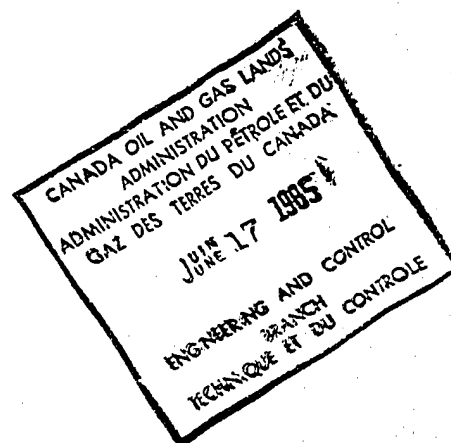
Signed: [Signature]
Engineering Branch
Date: 18 Dec 84
File: 9211-H5-1-3

9211-H5-1-3.

FINAL WELL REPORT
HOME SILT LAKE SOUTH G-21

85-05-31

M.G. Wilcox P. Eng.
Chief Drilling Engineer



ACTION SLIP

WELL HISTORY REPORTS

Project No: 9211-H5-1-3

The following action has been taken:

Receipt acknowledged ✓

Well Card made ✓

Reports for review list edited ✓

Reports labelled ✓

Confidential sections removed:

(micro) Paleontological

Palynological

OR Source Rock Analyses

Geochemical analyses

Other

Land Management Memo J

REVIEW AND APPROVAL made by:

ENGINEERING BRANCH 85-08-20

RESOURCE MANAGEMENT W. J. WARD 850826

ENVIRONMENTAL PROT.

MAKE COMMENTS ON ATTACHED SHEET

PROJECT NUMBER

COMPANY

REPORT TITLE

COMMENTS:

ENGINEERING BRANCH

ENVIRONMENTAL PROTECTION BRANCH

RESOURCE EVALUATION BRANCH

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- (8) Well History Log

FINAL WELL REPORT
HOME SILT LAKE SOUTH G-21

Page 1

SUMMARY:

Home Silt Lake South G-21 was drilled to a total depth of 1846 m to test the Slave Point, Sulphur Point and Upper Keg River Formations of the Devonian Age. Home Oil Company Limited contracted Hi-tower Drilling Rig # 17 to drill the well.

The well was spudded 85-01-17 at 03:40 hours and reached a total depth of 1846 m on 85-02-17. There were no problems drilling. This operation included the setting of 339.7 mm conductor casing to 133 m, and 244.5 mm surface casing to 502 m.

CORES:

Core # 1	1490.0 m - 1507.0 m	Slave Point	Full Recovery
Core # 2	1507.0 m - 1516.0 m	Slave Point	Full Recovery

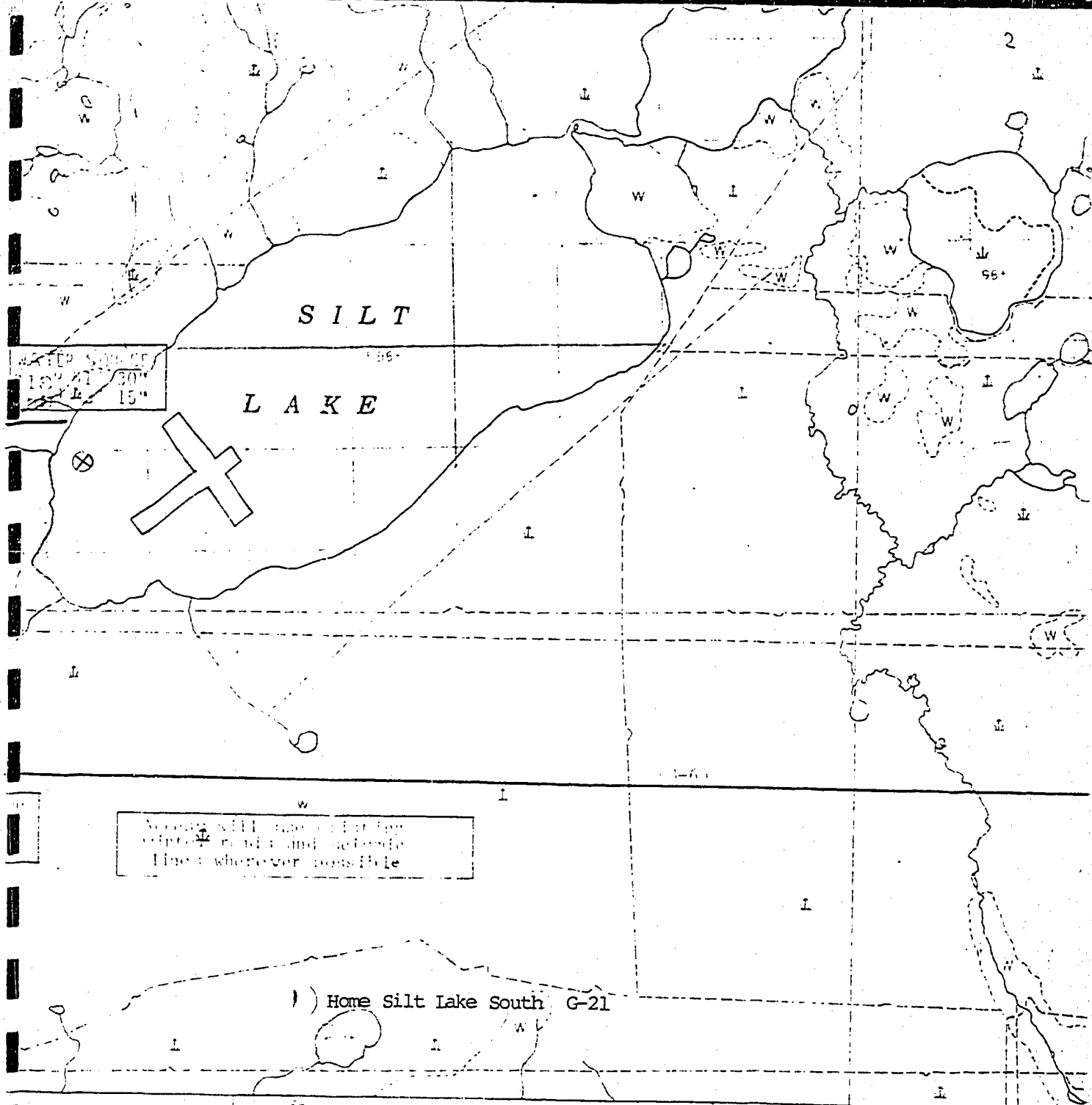
LOGS:

133 m - 502 m	Dual - Sonic
502 m - 1546 m	Dual Sonic. CNL-LDT, Microlog

DRILLSTEM TESTS:

DST # 1	1502 m - 1516 m	Slave Point	4660 m ³ /d gas flow, 180 m mud
DST # 2	1724 m - 1734 m	Keg River	N.G.T.S., 60 m mud
DST # 3	1791 m - 1803 m	Granite Wash	N.G.T.S., 173 m mud
DST # 4	1519 m - 1537 m	Slave Point	Misrun
DST # 5	1519 m - 1537 m	Slave Point	Misrun
DST # 6	1519 m - 1537 m	Slave Point	Misrun

Home Oil Company Limited decided to abandon the well on the basis of log, core and DST evaluation. The well was plugged and the rig was released 85-02-26 at 08:00 hours.



Survey will use color for
 white road and white
 line wherever possible

Home Silt Lake South G-21

50'

45'

SILT LAKE

DISTRICT OF MACKENZIE

NORTHWEST TERRITORIES

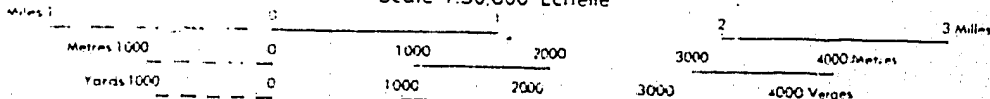
MEAN SEA LEVEL

10 METRES

1927

1927

Scale 1:50,000 Échelle



GENERAL DATA

NAME : Home Silt Lake South G-21

LOCATION : Latitude 60° 00' 25.134" UTM 6653378.31 m N
Longitude 118° 49' 22.429" UTM 398320.16 m W
Grid Area 60-10-118-45 as surveyed by B. Hewlko
of Yellowknife, executed 84-12-05 to 09.

D.A. : 1207

E.A. : 173

OPERATOR : Home Oil Company Limited
1700 Home Oil Tower
324 - 8th Avenue S.W.
Calgary, Alberta
T2P 2Z5

CONTRACTOR : Hi Tower Drilling Services Limited
Division of Bow Valley Resources
Box 6650, Postal Station "D"
1600 - 321 Sixth Avenue S.W.
Calgary, Alberta
T2P 2V8

DRILLING UNIT : Hi Tower Rig # 17
Conventional Land Rig with 2200 m depth
rating.

SUMMARY OF DRILLING OPERATIONS

SUMMARY OF DRILLING OPERATIONS

- (1) K.B. Elevation 625.1 m
Ground Elevation 620.53 m
- (2) T.D. 1846 m
Logged 133 - 502 m Dual Sonic
502 - 1846 m CNL-LDT, Microlog, Dual Sonic
- (3) Spudded: 1985-01-17-03:40 hours
- (4) Drilling Completed: 1985-02-17
- (5) Rig Released: 1985-02-26-08:00 hours
- (6) Well Status: Abandoned
- (7) Hole Sizes and Depths
- | <u>Table 1</u> | <u>Size</u> | <u>Interval</u> |
|----------------|-------------|-------------------|
| Conductor | 445 mm | 0 - 133 m |
| Surface | 311 mm | 133 - 502 m |
| Main | 222 mm | 502 - 1846 m T.D. |
- (8) Casing and Cementing Record: See casing and cementing details

- (9) Sidetracked Hole: None.
- (10) Drilling Fluid: Gel Chemical System.

TABLE 1 Drilling Fluid Properties

Hole Size	Density (kg/m ³)		Viscosity (s/L)		pH	
	Average	Range	Average	Range	Average	Range
Conductor 444.5 mm 0 - 133 m	1125	1060- 1190	51.5	45-58	9.0	9.0
Surface 311 mm 130-482 m	1140	1150- 1180	57.6	52-60	9.5	9.0 - 9.5
Main 222 mm 502-1846 m	1100	1035- 1140	52.5	34-62	9.5	9.0 - 10.0

- (11) Fishing Operations: None.
- (12) Well Kicks: None.
- (13) Formation Leak Off Tests

No. 1

Depth : 139 m
 Fluid Density : 1180 kg/m³
 Applied Pressure: 2000 kPa
 EMD : 2712 kg/m³
 Casing Depth : 133 m

No. 2

Depth : 509 m
 Fluid Density : 1000 kg/m³
 Applied Pressure: 8000 kPa
 EMD : 2624 kg/m³
 Casing Depth : 502 m

- (14) Time Distribution: See Table 2
- (15) Deviation Survey: See Table 3
- (16) Abandonment Plugs:

#1	1846 - 1725 m, 7.5t	0:1:0 "G" + 0.2% HR4 + .2% CFR2	Not Felt
#2	1625 - 1475 m, 10.25t	0:1:0 "G" + 0.3% CFR2	Felt @ 1460 m
#3	925 - 825 m, 7.8t	0:1:0 "G"	Felt @ 810 m
#4	525 - 475 m, 5.0t	0:1:0 "G"	Felt @ 464 m

NOTE: Drilling fluid between plugs as described in (10) this section.

TABLE 2: TIME DISTRIBUTION

Days From Spud	Drilling	Tripping	Rig Service & BOP's	Reaming	Slip & Cut Line	Survey	Handle Tools	Circulating	Clean to Bottom	Condition Mud	Repairs	Coring	DST's	Fishing	Run Casing	W.O.C.	Logging	Other
0						1.25		0.50			1.50							Rig up 24.00 Rig up 7.75
1	13.00							2.25							6.00			
2	12.75	2.25	0.75					0.75							21.25			Cement 2.00 Leak off 0.50 Work plugged bit 1.00
3						3.25					1.00					1.75		
4	16.75		0.75			1.00		1.00			1.25							
5	11.75	7.25	0.75				1.50											
6	13.00	2.75	0.75	6.00			1.00								5.25		4.00	
7	6.75	6.00	0.75			0.25									2.00	22.00		
8																		Nipple up 23.00 Presssre test 1.00 Leak off 0.25 Drill cement 3.00
9																		
10	7.00	4.25	2.75			0.25		1.25		2.25	3.00							
11	19.75	1.50	0.75			0.25		0.25	0.50		1.00							
12	19.00	3.50	0.75			0.75												
13	23.00		0.75			0.25												
14	19.75		0.75			0.75		0.25			2.50							
15	22.25		0.75			1.00												
16	22.25		0.75			1.00												
17	20.50		0.75			1.75												
18	8.75	6.25	0.50					5.25	0.75		1.50							Circ. Sample 1.00 Cond. hole 1.00 Rig check 0.75
19		3.25	0.25				2.50		1.00		3.50	12.75						
20		5.50										18.50						Recover core 0.50
21		5.75	0.50	12.00			0.50	1.75			3.00							
22		5.75	0.25					1.00										
23		9.25	0.50	6.75			4.00	1.50										
24		9.50	0.25		0.75		5.75	1.75										
25	9.75	8.25	0.75				0.50		0.75	4.00								
26	22.75		0.75															Circ. Sample 1.00
27	22.50		0.50															
28	17.25		0.75			0.25					5.75							
29	23.25		0.75															
30	22.75		0.50					0.75										W.O. Loggers
31		4.25	0.25					2.50			10.75						16.00	
32		5.25	0.25					2.50										
33			0.50				4.75	1.25						17.50				W.O. Packers 3.25
34			0.25				6.00							14.50				
35			0.75							3.25				23.25				Laydown D.C.'s 3.25
36		4.75	0.75				4.00							8.00				W.O. Cementer 8.75
37			0.75															Plugs 14.50 Plugs 16.00 Tear out 8.00 Tear out 8.00
38																		
39																		
TOTAL	354.75	95.5	18.25	24.75	.75	14.00	28.50	24.75	3.0	10.5	34.75	50.25	63.25	0.00	34.50	23.75	20.00	133.25

DEVIATION SURVEYS

TABLE 3
DEVIATION SURVEYS

WELL NAME AND LOCATION HOME SILT LAKE SOUTH G-21

DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION
21	1	1352	1 3/4		
43	1	1403	1 1/2		
70	1	1445	1 1/2		
100	1 1/2	1490	1 1/2		
119	1	1516	2		
130	3/4	1546	miss run		
166	1		1 1/2		
195	1	1641	1 1/2		
228	1	1785	1		
252	1	1840			
280	1/8				
309	3/4				
346	1/8				
378	1 3/4 boulder				
382	3/4				
412	1 1/2 pilot hole				
432	1 1/2 pilot hole				
458	1 pilot hole				
468	1 pilot hole				
402	1				
490	1 1/8				
498	1 1/2				
543	2 rock above Totco				
583	1 1/8				
658	1				
706	1				
784	7/8				
852	1/2				
1009	1/8				
936	1/2				
1084	1/8				
1155	1/2				
1237	1/2				
1307	2				
1352	1 3/4				

CONDUCTOR STRING



Date _____

85-01-21

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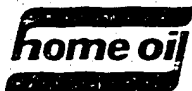
Drilling Supervisor

Date _____

806 81/03

Dan Kamieniecki

85-01-21



CEMENTING DETAIL

		WELL NAME HOME SILT LAKE SOUTH				
		WELL LOCATION G-21				
CEMENT INTERVAL	1ST STAGE	133 M TO 0 M	TOP FORMATION COVERED	SURFACE	GROUND	M
	2ND STAGE	M TO M				M
SLURRY VOLUME (TOTAL/GAUGE)	1ST STAGE	14.66/8.59 M ³	EXCESS 60 %	STAGE TOOL		
	2ND STAGE	/ M ³				
1ST STAGE	FILLER	TYPE 0:1:0 G + 2% CaCl ₂	YIELD .76 M ³ /TONNE			
		SLURRY VOLUME 14.66 M	DRY VOLUME 19.3 TONNE			
	TAIL-IN	TYPE	YIELD M /TONNE			
		SLURRY VOLUME M	DRY VOLUME TONNE			
2ND STAGE	TYPE	YIELD M ³ /TONNE				
	SLURRY VOLUME M ³	DRY VOLUME TONNE				
PREFLUSH 3m ³ fresh water						
1ST STAGE	MIXING FILLER	START 01:20	END 01:45	TOTAL 25	RATE .58 M ³ /MIN	
		SLURRY WEIGHT PROGRAM 1895 KG/M ³	ACTUAL (AVG) 1895 KG/M ³			
	MIXING TAIL-IN	START	END	TOTAL	RATE M ³ /MIN	
		SLURRY WEIGHT PROGRAM KG/M ³	ACTUAL (AVG) KG/M ³			
2ND STAGE	START	END	TOTAL	RATE M ³ /MIN		
	SLURRY WEIGHT PROGRAM KG/M ³	ACTUAL (AVG) KG/M ³				
DISPLACE START 02:13		PLUG DOWN 02:35	TIME 22 (MIN)	RATE .49 M ³ /MIN		
PRESSURES INITIAL 0 KPA		FINAL 1,500 KPA	BUMP 4,500 KPA	FLOAT HELD YES		
BOTTOM PLUG -----		TOP PLUG WOODEN	CEMENT HEAD SWADGE	CASING RECIP. 6m		
CENTRALIZERS						
REMARKS	3m ³ good cement returns.					

808 12/82

Dan Kamieniecki

DRILLING SUPERVISOR
85-01-21

DATE

SURFACE CASING

CASING DETAIL

Date _____

85-01-26

[illegible]

after landing jt. backed off.

Total Depth With Casing		501.84		Thread + Make Up -		.40		m		KB - Top CSG		4.46	
Centralizers		5		Qty.		Type		BAKER		Spacing			
Scratchers				Qty.		Type				Spacing			

[illegible]

Drilling Supervisor

Date _____

Dan Kamieniecki

85-01-26



CEMENTING DETAIL

WELL NAME HOME SILT LAKE SOUTH				
WELL LOCATION G-21				
CEMENT INTERVAL	1ST STAGE	0 M TO 503 M	TOP FORMATION COVERED	SURFACE • GROUND M
	2ND STAGE	M TO M		• M
SLURRY VOLUME (TOTAL/GAUGE)	1ST STAGE	26.4 / 15.74 M ³	EXCESS 75 %	STAGE TOOL • M
	2ND STAGE	/ M ³		
1ST STAGE	FILLER	TYPE 0-1-0 G + 2% CaCl ₂	YIELD 76 M ³ /TONNE	
		SLURRY VOLUME 26.4 M	DRY VOLUME 35 TONNE	
	TAIL-IN	TYPE	YIELD M / TONNE	
		SLURRY VOLUME M	DRY VOLUME TONNE	
2ND STAGE	TYPE	YIELD M ³ /TONNE		
	SLURRY VOLUME M ³	DRY VOLUME TONNE		
PREFLUSH 3m ³ fresh water				
1ST STAGE	MIXING FILLER	START 23.59	END 00.31	TOTAL 32
		SLURRY WEIGHT PROGRAM 1895 KG/M ³	RATE .8 M ³ /MIN ACTUAL (AVG) 1895 KG/M ³	
	MIXING TAIL-IN	START	END	TOTAL
		SLURRY WEIGHT PROGRAM KG/M ³	RATE M ³ /MIN ACTUAL (AVG) KG/M ³	
2ND STAGE	START	END	TOTAL	
	SLURRY WEIGHT PROGRAM KG/M ³	RATE M ³ /MIN ACTUAL (AVG) KG/M ³		
DISPLACE START 00:45		PLUG DOWN 01:22	TIME 37 (MIN)	RATE .54 M ³ /MIN
PRESSURES INITIAL 0 KPA		FINAL 5.0 KPA	BUMP 9.0 KPA	FLOAT HELD YES
BOTTOM PLUG RUBBER		TOP PLUG RUBBER	CEMENT HEAD SWADGE	CASING RECIP. 6m
CENTRALIZERS • 5, 499, 487, 475, 462, 450.				
REMARKS	RECIP. CSG. WHILE MIXING TIE DOWN TO DISPLACE.			
	8m ³ GOOD RETURNS.			

608 12/82

Dan Kamieniecki

DRILLING SUPERVISOR

85-01-26

DATE

BIT RECORD

GEOLOGY

1. DRILL CUTTINGS

Samples taken every 5 m from 0 m to T.D. No samples were caught from 1490 - 1507 m and 1507 - 1516 m (cored intervals). Samples stored at the Institute of Sedimentary and Petroleum Geology, Calgary.

2. CORES

<u>Core Number</u>	<u>Interval</u>	<u>Recovery</u>
1	1490.0 - 1507.0 m	17.0 m
2	1507.0 - 1516.0 m	9.0 m

Cores stored at the Institute of Sedimentary and Petroleum Geology, Calgary.

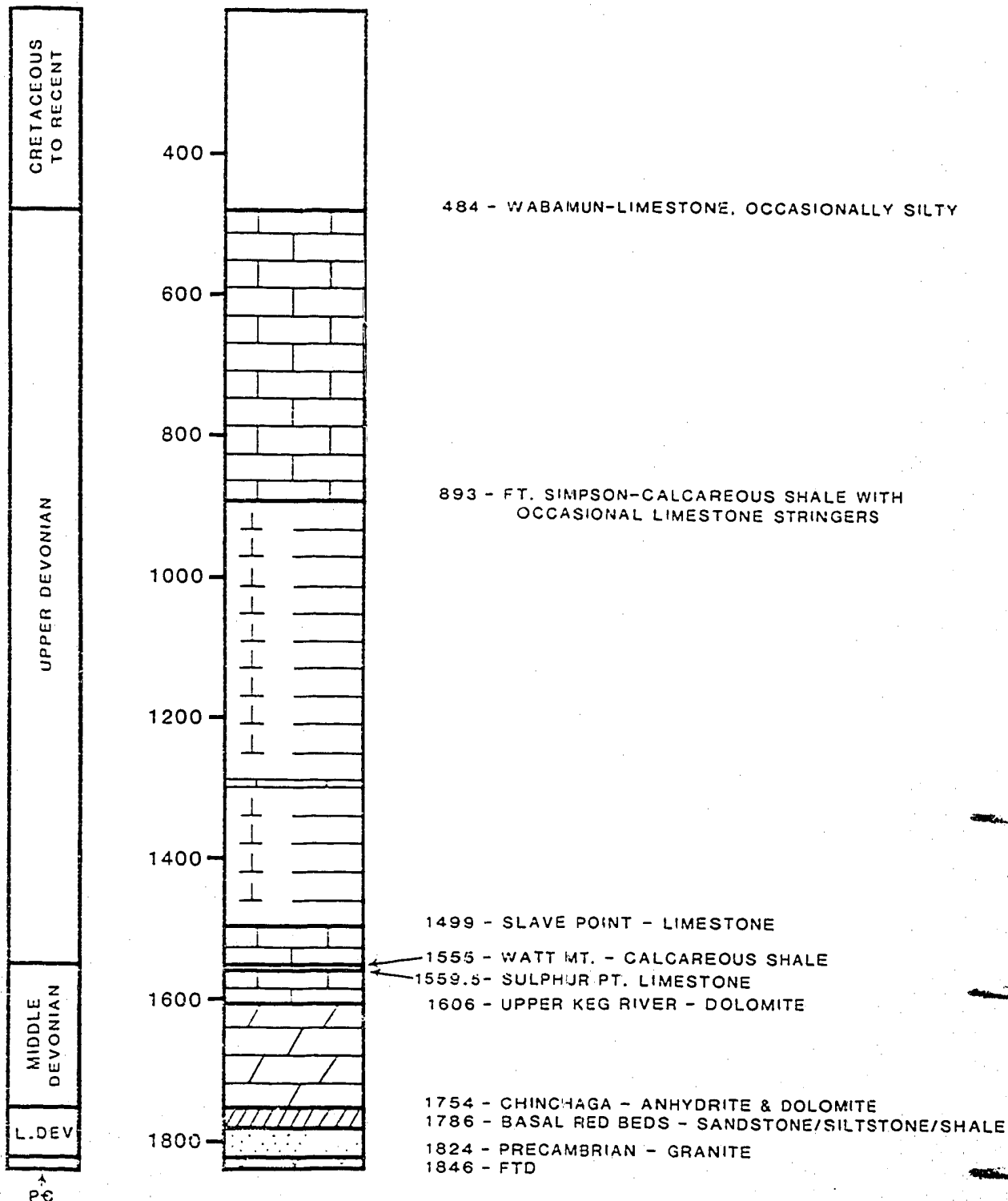
3. LITHOLOGY

See enclosed Appendix 3 (Core Analysis)

4. STRATIGRAPHIC COLUMN

See Attached.

STRATIGRAPHIC COLUMN HOME SILT LAKE SOUTH G-21 KB 625.1m



WELL EVALUATION

1. DOWNHOLE LOGS

<u>Run No.</u>	<u>Date</u>	<u>Interval</u>	<u>Service Company</u>
1	85-01-25	133 - 502 m	Schlumberger
2	85-02-18	503 - 1846 m	Schlumberger

For logs types and scale see attached well logging program.

2. OTHER LOGS

Mud logging done from surface casing to F.T.D.

3. VELOCITY SURVEY

Surveys were not conducted.

4. FORMATION STIMULATION

No formation stimulation was conducted in this well.

WELL LOGGING PROGRAM

WELL NAME: HOME SILT LAKE SOUTH G-21
 LOCATION: G21-6010-11945
 SERVICE COMPANY: SCHLUMBERGER

WELL NO: A 684 ?
 CLASS: EXPLORATORY

LOG INTERVAL: RUN # 2: 125 ft. TO 500 ft. (SURFACE CASING)
 FIELD PRINTS: 9 FINAL PRINTS.
 DATA TRANSMISSION SERVICE: DART SERVICE REQUIRED FOR ALL LOGS.

LOG-TYPE	CURVE-TYPE	YES	CURVE-SCALE	1:600	1:240	1:40	COMMENTS
INDUCTION	DIL-SFL	X	0.2-2000	X	X		
	SP	X	10 MV	X	X		
	GR	X	0-150	X	X		DASHED CURVE
	TENSION	X	DELTA TENS	X	X		
	CALIPER						
ACOUSTIC	DELTA-T	X	100-500	X	X		
	GR	X	0-150	X	X		
	TENSION	X	DELTA TENS	X	X		
	CALIPER	X	250-500	X	X		
	WAVEFORM						
	TTI						
DENSITY	BULK DENS						
NEUTRON	DENS FOR						
	NEUTRON						
	DRHO						
	SS MATRIX						
	LS MATRIX						
	GR						
	TENSION		DELTA TENS				
	CALIPER						
	90 OFF CAL						
	PE						

H.W. PITTS 239-4895 J.D. REIMER 285-0920 G. SUDAR 244-8043 R. THOM 276-4209

BOREHOLE INTEGRATED VOLUME: REQUIRED.

ADDITIONAL INSTRUCTIONS: 1) BID QUOTE FOR THIS RUN = \$ 7630.

APPROVED
 NOV 19 1984
 FORMATION EVALUATION

WELL NAME: HOME SIL/ LAKE SOUTH C-1

WELL NO: A 681 3

LOCATION: G21-6010-11845

CLASS: EXPLORATORY

SERVICE COMPANY: SCHLUMBERGER

LOG INTERVAL RUN # 3: 500 ft. TO 115 ft. (100 ft.)

FIELD PRINTS: 2 FIELD PRINTS

DATA TRANSMISSION SERVICE: DATA SERVICE REQUIRED FOR ALL LOGS.

LOG-TYPE	CURVE-TYPE	YES	CURVE-SCALE	1-500	1-100	1-40	COMMENTS
INDUCTION	DIL-SFL	X	0.2-2000	X			DASHED CURVE
	SP	X	10 HV	X	X		
	GR	X	0-150	X	X		
	TENSION	X	DELTA TENS	X	X		
	CALIPER						
ACOUSTIC	DELTA-T	X	100-200	X	X		RUN WAVEFORM OVER ZONES AS DIRECTED BY WELL SITE
	GR	X	0-150	X			
	TENSION	X	DELTA TENS	X	X		
	CALIPER	X	125-375	X	X		
	WAVEFORM	X	200-2200				
	TTI						
DENSITY	BULK DENS	X	2000-3000	X			PRESENT DRHO IN LEFT HALF OF TRACK 2.
NEUTRON	DENS POR	X	-15/+45%		X		
	NEUTRON	X	-15/+45%		X		
	DRHO	X	-50/+200	X	X		
	SS MATRIX						
	LS MATRIX	X	-15/+45%		X		
	GR	X	0-150	X	X		
	TENSION	X	DELTA TENS	X	X		
	CALIPER	X	125-375	X	X		
	90 OFF CAL	X	125-375	X	X		
	PE	X	1-11	X			

APPROVED
NOV 19 1984
F. G. G. T. L.
FORMATION EVALUATION

LATERLOG DLL-MSFL							
SP							
GR							
TENSION			DELTA TENS				DASHED CURVE
CALIPER							
MICRO- RESISTIVITY	MINORMAL	X	0-40		X		0-20 IF APPROPRIATE.
	MINVERSE	X	0-40		X		0-20 IF APPROPRIATE.
	GR	X	0-150		X		
	TENSION	X	DELTA TENS		X		RUN IN IN COMBINATION WITH LENS-NEUT.
	CALIPER	X	125-375		X		
H.W. FITTS 239-4855 J.D. REIMER 285-0920 G. SUDAR 244-8043 R. THOM 276-4205							

BOREHOLE INTEGRATED VOLUME: REQUIRED FROM TD - SURFACE CASING.
TO BE CALCULATED FROM DUAL-AXIS CALIPERS.

ADDITIONAL INSTRUCTIONS: 1) HAVE DIPMETER ON SITE. BH ORIENTATION AND
FIL PRESENTATION REQUIRED.

2) HAVE SIDEWALL CORING DEVICE ON SITE.
2 X 45 SHOT GUNS REQUIRED.

3) DATA ACQUISITION SYSTEM REQUIRED FOR ALL LOGS.

FORMATION AND PRODUCTION TESTING

FORMATION AND PRODUCTION TESTING

<u>Test No.</u>	<u>Date</u>	<u>Interval</u>	<u>Recovery</u>
1	85-02-25	1502 - 1516	180 m of mud
2	85-02-25	1724 - 1734	4660 m ³ /d gas flow 60 m mud.
3	85-02-21	1791 - 1803	173 m of mud
4	85-02-22	1519 - 1537	Misrun
5	85-02-22	1519 - 1537	Misrun
6	85-02-23	1517 - 1537	Misrun

Detailed pressure information submitted in appendices.



FIELD DRILL STEM TEST REPORT

TEST NO.	1	WELL NAME	HOME SILT LAKE SOUTH G-21	DATE	85-02-11
TESTING CO.	HALLIBURTON	FORMATION	SLAVE POINT	INTERVAL	1502 TO 1516

KB ELEV.	625.14	WELL DEPTH	1516	HOLE SIZE	222	MUD TYPE	GEL CHEM	DEN.	1080	VISC	60	WL	8.7	CL-	410
TIME PACKER SET	06:11	PF	5 mins	SI	60 mins	VO	90 mins	FST	180 mins	TIME PACKER LOOSE	11:51				
BLOW DESC. ON PF STRONG AIR BLOW. GAS TO SURFACE IN 5 MIN.															
BLOW DESC. ON VO GAS TO SURFACE.															

GAS FLOW READINGS									
TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE	TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE
0730	12.7		250	8137 m ³ /D	0810	12.7		100	4660 m ³ /D
0740	12.7		250	8137 m ³ /D	0820	12.7		100	4660 m ³ /D
0750	12.7		200	6978 m ³ /D	0830	12.7		100	4660 m ³ /D
0800	12.7		200	6978 m ³ /D	0840	12.7		100	4660 m ³ /D
TYPE OF MEASUREMENT (CRITICAL FLOW PROVER, SIDE STATIC, ETC)									

FINAL RECOVERY DATA				REMARKS
	of CUSHION	SALINITY		180 TOTAL PIPE RECOVERY COMMENTS: RECOVERED 180m OF CONTAMINATED DRILLING FLUID.
180	of MUD	SALINITY	37,500	
	of WATER	SALINITY		
	of CONDENSATE	GRAVITY		
	of OIL	GRAVITY		

HP	15980	kPa	PPF	2210	kPa	IFP	2400	kPa	ISIP	11970	kPa
HP	15980	kPa	PPF	2400	kPa	IFP	4280	kPa	ISIP	12090	kPa

CHART NO.	3282	DEPTH	1494.08	SH CHOKE	19.05	INSIDE OR OUTSIDE RECORDER	INSIDE	BHT	36.83°C
TYPE OF TEST AND TOOLS BOTTOM HOLE CONVENTIONAL.									

SAMPLES FOR ANALYSIS -		NO. OF SAMPLES
FORWARDED TO:	C & G LABS, GRANDE PRAIRIE	6
SHIPPED BY:	HALLIBURTON TESTER	

REMARKS (MISRUN REASONS, HOLE CONDITIONS, ETC)

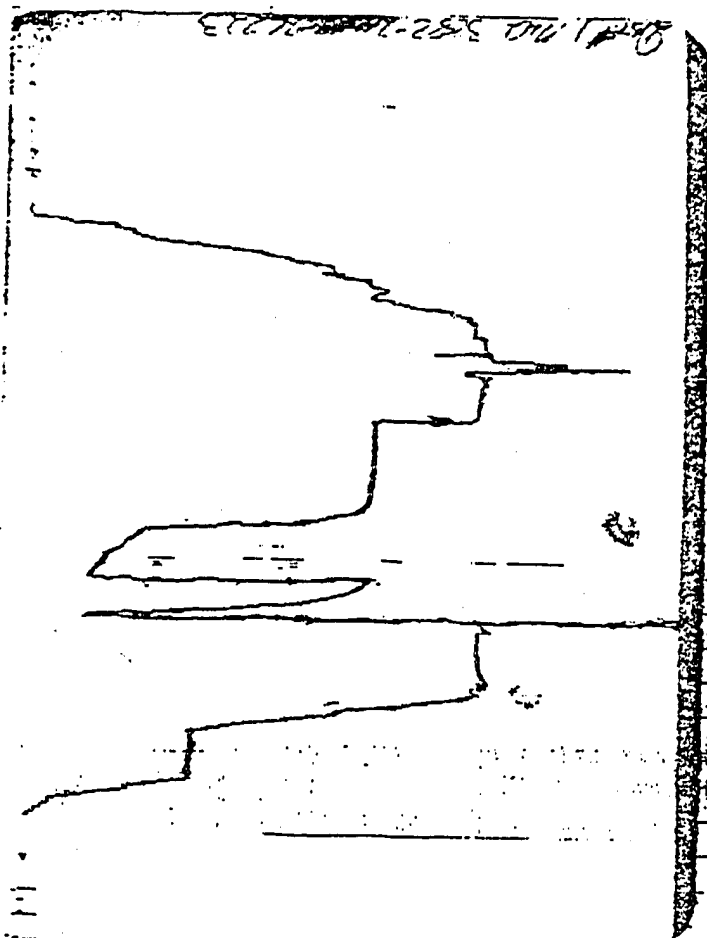
GEOL. OR ENG. J. SPEARS

HOME SILT LAKE SOUTH C-21

DST # 1

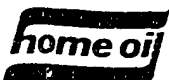
CHART # 3282

1502-1516 SLAVE POINT FORMATION



85-02-11

J SPEARS



FIELD DRILL STEM TEST REPORT

TEST NO. 33 Two	WELL NAME Home Silt Lake South G-21	DATE 85-02-20
TESTING CO. Halliburton	FORMATION Key River	INTERVAL 1724 TO 1734

KB ELEV. 625.10	WELL DEPTH 1846	HOLE SIZE 222	MUD TYPE Gel Chem	DEN. 1090	VISC 70	WL 9.6	CL- 450
TIME PACKER SET	PF 5	IST 60	VO 60	FST 90	TIME PACKER LOOSE		

BLOW DESC. ON PF
Very weak air blow Steady NGTS

BLOW DESC. ON VO
Very weak air blow throughout NGTS

GAS FLOW READINGS									
TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE	TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE
TYPE OF MEASUREMENT (CRITICAL FLOW, ORIFICE, ETC.)									

TYPE OF MEASUREMENT (CRITICAL FLOW PROVER, SIDE STATIC, ETC.)

FINAL RECOVERY DATA

	# of CUSHION	SALINITY		REMARKS Inhibitor cut drlg mud (No sign of gas cut)	60	TOTAL PIPE RECOVERY
60	# of MUD	SALINITY	32400			
	# of WATER	SALINITY				
	# of CONDENSATE	GRAVITY				
	# of OIL	GRAVITY				
COMMENTS: Recorder above shut in tool verifies recovery.						

HP 19231	kPa	PPF 428	kPa	FP 745	kPa	STP 13755	kPa
HP 18916	kPa	PPF 639	kPa	FP 745	kPa	STP 13338	kPa

CHART NO. 3279	DEPTH 1709.3	BH CHOKE 19.05	INSIDE OR OUTSIDE RECORDER Inside	BHT 42
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TYPE OF TEST AND TOOLS
Inflate Straddle

SAMPLES FOR ANALYSIS -

FORWARDED TO: C & G Labs Grande Prairie

NO. OF SAMPLES

SHIPPED BY: Tester

3

REMARKS (MISRUN REASONS, HOLE CONDITIONS, ETC.)

Hole good on trip and pulling packers free. Charts indicate possible partial plugging on VO, no surface evidence.

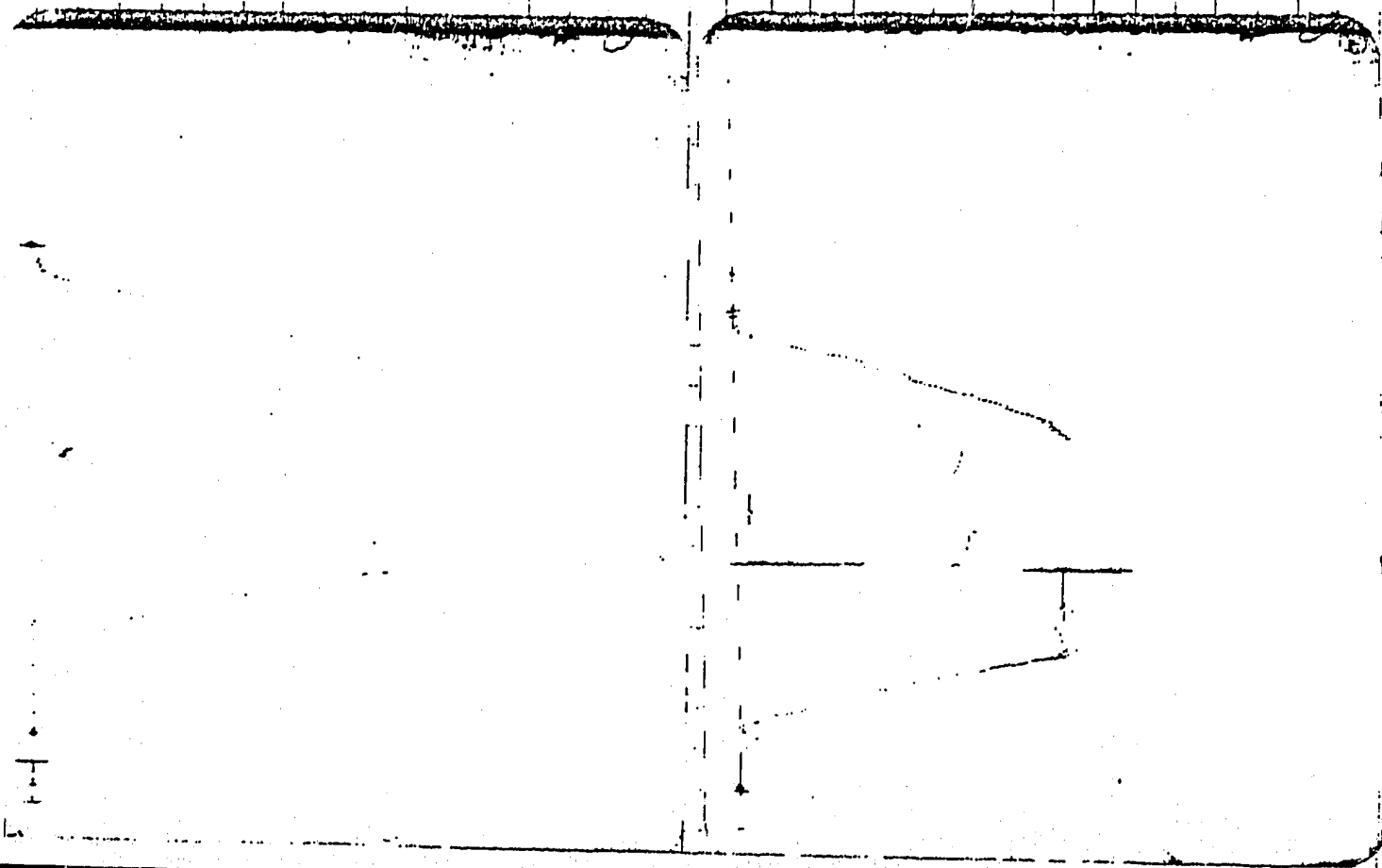
GEOL. OR ENG.

Dan Kamieniecki

Home Silt Lake C-21.

D.S.T # 2 Interval 1724-1734

Keq River





FIELD DRILL STEM TEST REPORT

TEST NO.	Three	WELL NAME	Home Silt Lake South G-21	DATE	85-02-22
TESTING CO.	Halliburton	FORMATION	Granite Wash	INTERVAL	1791 TO 1803

KB ELEV.	625.10	WELL DEPTH	1846	MOLE SIZE	222	MUD TYPE	Gel Chem	DEN.	1090	VISC	70	WL	70	CL-	9.6
TIME PACKER SET	02:57	PF	5	min	60	min	60	min	120	min	TIME PACKER LOOSE 08:48				

BLOW DESC. ON PF
Completely dead on preflow

BLOW DESC. ON VO
Dead initially Very weak air blow after 30 mins.

GAS FLOW READINGS									
TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE	TIME	CH.SIZE	TEMP	B.PRESS.	FLOW RATE
TYPE OF MEASUREMENT REQUIRED									

TYPE OF MEASUREMENT (CRITICAL FLOW PROVER, SIDE STATIC, ETC)

FINAL RECOVERY DATA

	# of CUSHION	SALINITY		REMARKS Dr1g mud, no sign of gas out.	TOTAL PIPE RECOVERY 173
173	# of MUD	SALINITY	25000		
	# of WATER	SALINITY			
	# of CONDENSATE	GRAVITY			
	# of OIL	GRAVITY			
COMMENTS: Recorder shut in tool shows appr. 150cm of fluid from annulus after tool					

HP	19780	kPa	PPF	100P	kPa	FP	280P	kPa	STP	16930	kPa
HP	19590	kPa	PPF		kPa	FP	380	kPa	STP	6080	kPa

CHART NO.	3650	DEPTH	1777.55	BH CHOKE	19.05	INSIDE OR OUTSIDE RECORDER	Inside	BHT	48
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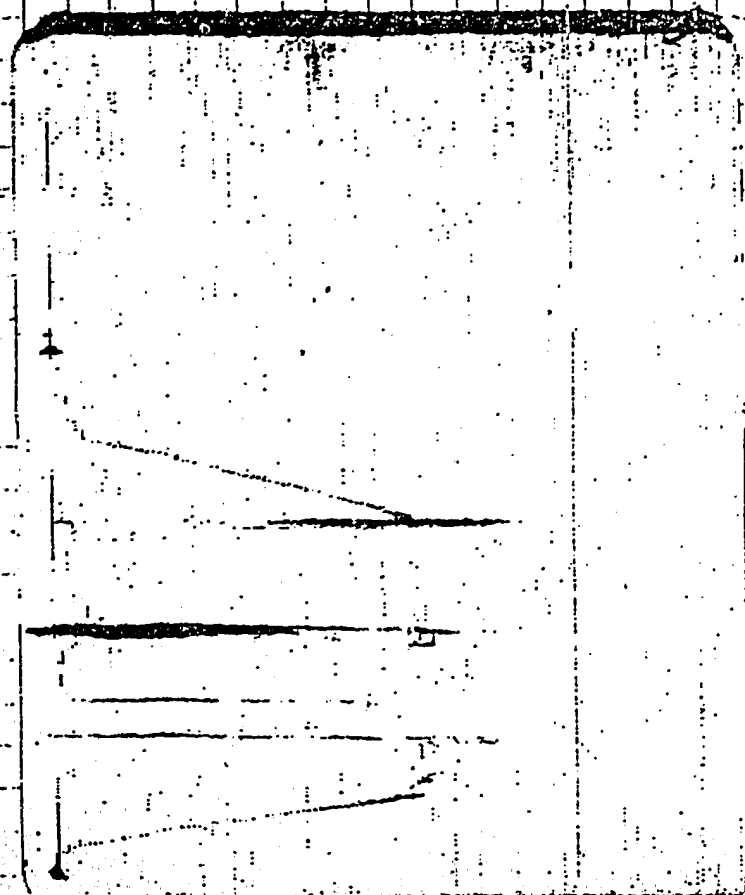
TYPE OF TEST AND TOOLS
Inflate straddle

SAMPLES FOR ANALYSIS -	
FORWARDED TO:	C & G Labs Grande Prairie
SHIPPED BY:	Tester
NO. OF SAMPLES 3	

REMARKS (MISRUN REASONS, HOLE CONDITIONS, ETC)
After VO Tool slid free. Reset and pump, packer skid .5m Fluid dropped in annulus
620 l mud required to fill hole.

GEOL. OR ENG. Dan Kamieniecki

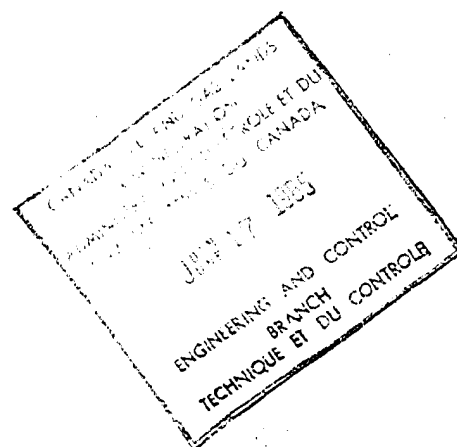
DST #3 Home Salt Lake
Interval 1791-1803



HOME SILT LAKE

G-21

GEOLOGICAL REPORT



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PERTINENT WELL DATA

PERTINENT WELL DATA

Name: Home Silt Lake

Location: G-21

Province: N.W.T.

Operator: Home Oil Ltd.

Drilling Contractor: Hi - Tower Rig #17

Well Authorization: #9211-H5-1-3

WSN: #684

Well Status:

Hole Size: Conductor: 445 mm; Surface: 311 mm
Main: 222 mm

Conductor Pipe: 12 jnts, 339.7 mm, 81.1 kg/m, K55,
ST and C, new Nippon, landed at 132.9 m

Surface Casing: 52 jnt, 244.5 mm, 53.57 kg/m, K55,
LT and C, new Algoma, landed at 501.8 m.

Other Casing:

Spud Date: 04:30 a.m., 19th January, 1985

Rig Release:

Elevations: G.L.: 620.6 m
K B.: 625.14 m

Total Depth: Driller: 1846 m; Logger: 1845 m

Intervals Cored: Core #1: 1490.0 - 1507.0 m;
Core #2: 1507.0 - 1516.0 m

DST Intervals: DST #1 1502 - 1516 m

Engineers: Dan Kamieniecki, John Spears

Geologists: Peter Hews, Ren Scheck

GEOLOGICAL MARKERS

GEOLOGICAL MARKERS

G.L.: 620.6 m
K.B.: 625.14 m

<u>Formation</u>	<u>Sample Top</u>	<u>Sample Subsea</u>	<u>Log Top</u>	<u>Log Subsea</u>
Spud in glacial till	?			
CRETACEOUS				
Ft. St. John Group	?	?		
DEVONIAN				
Wabmaun	484	+141.14	484	+141.14
Jean Marie	875	-249.86	875	-249.86
Ft. Simpson	890	-264.86	893.5	-268.36
Muskwa	1394	-768.86	?	?
Slave Pt.	1498	-873.86	1498.5	-873.36
Watt Mt.	1559	-933.86	?	?
Sulphur Pt.	1565	-939.86	1562	-936.86
Upper Keg River	1605	-979.86	1597	-971.86
Lower Keg River	?	?	?	?
Chinchaga	1751	-1125.86	1752	-1126.86
Basal Red Beds	1787	-1161.86	1787	-1161.86
PRECAMBRIAN	1827	-1201.86	1824	-1199.86
TD	1846	-1220.86		

TD Driller: 1846 m
Logger: 1845 m

RECORD OF LOGS RUN

RECORD OF LOGS RUN

<u>Date</u>	<u>Type of Log Run</u>	<u>Interval</u>	<u>Scale</u>	<u>Company</u>
25 Jan., 1985	DISFL - GR	500.8-132.8m	1:240 1:600	Schlumberger
25 Jan., 1985	BHCSL - GR - CAL	500.8-132.8m	1:240 1:600	Schlumberger
19 Feb., 1985	DISFL - SP	1833-501.5m	1:240 1:600	Schlumberger
19 Feb., 1985	BHCSL - GR - CAL	1833-501.5m	1:240 1:600	Schlumberger
19 Feb., 1985	CNL - LDT	1833-501.5m	1:240 1:600	Schlumberger
19 Feb., 1985	MICROLOG	?	1:240 1:600	Schlumberger
19 Feb., 1985	SONIC WAVE FORM	1833-1300m	1:48	Schlumberger

DRILL STEM TESTS

DRILL STEM TESTS DATA

DST #1

Test Interval: 1502 - 1516 m

Formation: Slave Point

Test Type: Dual Bottom Hole Conventional

Service Company: Halliburton

Preflow Description: SAB, GTS in 5 min., strong 8 m flame,
died slowly on ISI.

Final Flow Description: GTS throughout, 2-3 m orange flame,
decreasing slowly.

Valve Open Results

<u>Time(min)</u>	<u>Pressure(kPa)</u>	<u>Temp(C)</u>	<u>Orifice(mm)</u>	<u>m³/day</u>
7:30	250	NA	12.7	8137
7:40	250	NA	12.7	8137
7:50	200	NA	12.7	6978
8:00	200	NA	12.7	6978
8:10	100	NA	12.7	4660
8:20	100	NA	12.7	4660
8:30	100	NA	12.7	4660
8:40	100	NA	12.7	4660
8:50	200	NA	12.7	6978

<u>Recorded Pressure (kPa) (inside recorder)</u>		<u>Times (min)</u>
IHP	15,980	PF 5
FHP	15,980	ISI 60
PFI	2,210	VO 90
PFF	2,400	FSI 180
ISIP	11,970	
IFP	2,400	
FFP	4,280	
FSIP	12,090	

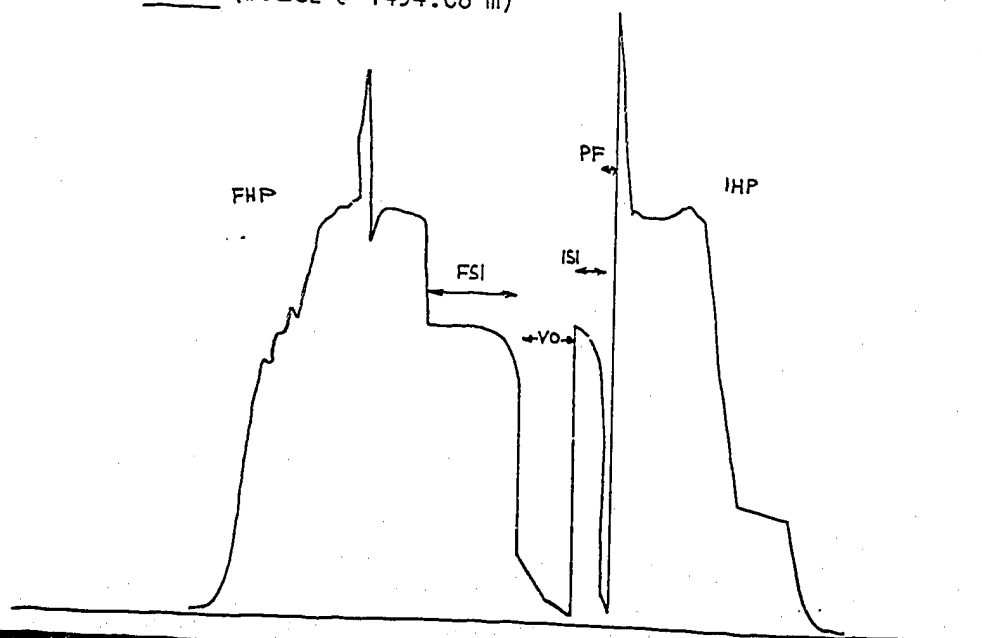
Fluid Recovery:

3 fluid samples
 1 bottom hole sample
 2 gas samples
 Sent C & G labs in Grande Prairie.
 180 m gassed drilling mud
 38,500 ppm Cl^-
 410 ppm Cl^- in mud before test
 11,500 ppm H_2S

Bottom Hole Temperature:

98.3° F 36.8° C

Chart (#3282 @ 1494.08 m)



DAILY DRILLING PROGRESS

DAILY DRILLING PROGRESS (Summary Rig Operations)

<u>Date</u>	<u>Midnight Depth</u>	<u>Progress</u>	<u>Status</u>	<u>Summary Rig Operations for Previous 24 hrs.</u>
Jan. 18	0	0	Rig up	Rig up, prepare to spud.
19	81	81	Drlg.	Rig up to spud, spud 445 mm conductor hole at 04:30, circ. at 22 m and repair shaker, drill, poor cleaning, weight and viscosity build up, hole starts unloading, drill ahead and fan to control deviation.
20	133	52	Circ. csg. on bottom	Fanning hole for deviation, survey back to 1° from 1½°, circ hole clean, dummy trip at 129 m, drill ahead to 133.5 m, hoist to run casing, run casing.
21	133	0	Drill out cement	Cement casing, casing landed at 132.95 m, nipple up, drill out cement.
22	281	148	Drlg.	Drill out cement and 6 m open hole, run leak-off test, drill ahead, fanning to control deviation, drill.
23	390	109	R.I.H.	Drill ahead, P.O.H. at 337 m with plugged jets, 3 cones flat, R.I.H. Bit #2A; drill to 390 m, P.O.H., bit scrubbed, R.I.H. Bit #3A pilot bit.
24	481	91	Drlg.	Finish R.I.H., P.O.H. at 474 m, R.I.H. w Bit #4A 311 mm and real. from 390 m to 474 m, drill ahead.

<u>Date</u>	<u>Midnight Depth</u>	<u>Progress</u>	<u>Status</u>	<u>Summary Rig Operations for Previous 24 hrs.</u>
Jan. 25	503	22	Cir. csg. on bottom	Drill to 491 m, P.O.H., R.I.H. drill 12 m to TD, drop survey, P.O.H., Rig up Schlumberger, run logs, rig out Schlumberger, run 42 jnts., 244.5 mm, 53.57 kg/m, K-55, casing.
26	503	0	Nipple up	Cement casing, grind out threads on casing bowl to slip and weld on, nipple up.
27	503	0	Steam lines	Nipple up BOP stack, repair leaks and blown hydraulic hoses, pressure test stack, casing and valves.
28	555	52	P.O.H.	R.I.H. with Bit #1, tag cement at 487 m, pressure test, drill out cement, shoe, run leak off at 509 m, drill 222 m hole, hoist plugged bit.
29	639	84	Drig.	Work on compressor, finish . R.I.H. clean 10 m fill, drill ahead with Bit #1, survey back 1 1/8", increase W.O.B., no hole problems.
30	727	88	Drig.	Drill ahead 222 mm main hole, condition mud and run solids equipment, drop survey and hois Bit #1 at 718 m, hole good on trip, R.I.H. with Bit #2 and drill ahead.
31	851	124	Drig.	Drill ahead with Bit #2 mud density climbing as limestone turns silty.

<u>Date</u>	<u>Midnight Depth</u>	<u>Progress</u>	<u>Status</u>	<u>Summary Rig Operations for Previous 24 hrs.</u>
Feb. 1	1025	174	Drlg.	Drill ahead 222 mm main hole, change out washpipe and swivel packing, penetration rate increased in Ft. Simpson, no hole problems.
	2 1214	189	Drlg.	Drill ahead in Ft. Simpson Formation, penetration rate steady.
	3 1345	131	Drlg.	Drill ahead, survey out to 2° at 1307 m, decrease W.O.B., dri
	4 1454	109	Drlg.	Drill ahead with Bit #2, slowly increased W.O.B. as deviation comes back.
	5 1490	36	P.O.H.	Drill, circulate sample at 1474 m on drilling break, work tight sloughing hole, drill to 1490 m circulate sample, dummy trip, run in, clean 4 m to bott circulate hole clean, P.O.H. for core barrel.
	6 1499	9	Coring	P.O.H., rig out and load out pump #1, pick up and make up co barrel, run in, circulate and wash to bottom, drop ball, cut core #1.
	7 1507	8	Recover Core	Cut core #1, in Slave Point Formation, 1490.0 - 1507.0 m, 17 m, pull out, recover 17 m co
	8 1507	0	R.O.H.	Finish recovering core, service core barrel, install new mud pump, run in with Bit # S21G and ream rathole, 1490-1507 m, circulate hole clean, pullout to pick up core barrel.

<u>Date</u>	<u>Midnight Depth</u>	<u>Progress</u>	<u>Status</u>	<u>Summary Rig Operations for Previous 24 hrs.</u>
Feb. 9	1515	8	Coring	Finish trip out, pick up core barrel, circulate and drop ball, cut core #2, in Slave Pt. Formation.
	10 1516	1	Run DST #1	Finish cutting core #2 1507.0 - 1516.0 m, 9.0 m, pull out, recover 9.0 m, lay down core barrel, run in with Bit #4 S21G, ream rathole 1507 - 1516 m, circ hole clean, pull out, pick up tools for DST #1.
	11 1516	0	R.I.H.	Finish making up test tools, R.I.H., run DST #1 1502 - 1516 m in Slave Point, reverse circulated recovery P.O.H., recover charts, lay down test tools, run in Bit #5 FP53A.
	12 1535	19	Drlg.	R.I.H., break circulation, high pump pressure, treat minor sulphide contamination, hoist for plugged jets, R.I.H., clean 6 m to bottom drill 222 mm hole.
	13 1580	45	Drlg.	Drill, survey misrun.
	14 1641	61	Drlg.	Drill, circulate up sample on drilling break, drill.
	15 1710	69	Drlg.	Drill to 1650m hoist to run survey, change bit, R.I.H. Bit #6, F2, drill.
	16 1785	75	Drlg.	Drill.
	17 1846	61	Circ.	Drill, reach TD at 23:15 hrs, circulate bottom hole sample.

<u>Date</u>	<u>Midnight Depth</u>	<u>Progress</u>	<u>Status</u>	<u>Summary Rig Operations for Previous 24 hrs.</u>
Feb. 18	1846	0	P.O.H. to log	P.O.H. 20 stand dummy trip, hole good, circulate and condition hole, wait on loggers P.O.H. to log, jaw clutch disengaged while hoisting, brakes wouldn't hold, drop blocks, pipe hanging in elevator at rotary table, pick up blocks and repair damage, run in hole, circulate, P.O.H. to log.

DEVIATION SURVEYS

DEVIATION SURVEYS

<u>Depth (m)</u>	<u>Deviations (degrees)</u>	<u>Depth (m)</u>	<u>Deviations (degrees)</u>
21	1	498	1 1/4
43	1	543	2
70	1	583	1 1/8
100	1 1/2	658	1
119	1	706	1
130	3/4	784	7/8
166	1	852	1/2
195	1	936	1/2
223	1	1009	1/8
252	1	1084	1/8
280	1/8	1155	1/2
309	3/4	1237	1/2
346	1/8	1307	2
378	1 3/4	1352	1 3/4
382	3/4	1403	1 1/4
412	1 1/2	1490	1 1/4
432	1 1/2	1546	misrun
458	1	1641	1 1/2
468	1	1846	1 1/4
490	1 1/8		

BIT RECORD

BIT RECORD

<u>Bit No.</u>	<u>Size</u> mm	<u>Type</u>	<u>Jets</u>	<u>Depth</u>		<u>m</u>	<u>hours</u>	<u>wt</u>	<u>rpm</u>	<u>T B G</u>
				<u>In</u>	<u>Out</u>					
1C	445	OSC	3x14.4	0	133	133	25.75	2-6	150	6-3-I
retip										
1A	311	XDV	3x12.7	133	337	204	24	8-10	120+	8-5-I
2A	311	XDV	1x14.3, 2x12.7	337	390	53	6.25	3-10	120+	8-3-I
3A	222	JD7	1x14.3, 2x12.7	390	474	84	12.5	2-10	120+	2-2-I
4A	311	Y31G	3x14.3	474	503	29	7.25	2-12	120+	3-2-I
1	222	S13G	2x7.9, 1x8.7	503	719	216	44	6-14	80-90	5-6-I
2	222	J11	2x7.9, 1x8.7	719	1490	771	118	6-16	80-90	4-5-I
1C	158	SC226	None	1490	1507	17	31.25	4.5	65	Good
3	222	S21G	3x8.7	1490	1507	Ream 17	12	4	60	3-1-I
2C	158	C-40	None	1507	1516	9	19	5	70	Good
4	222	S21G	3x8.7	1507	1516	Ream 9	6.5	4	60	2-1-I
5	222	FP53A	3x8.7	1516	1650	134	58.75	12-14	85	3-2-I
6	222	F2	2x8.7, 1x9.5	1650	1846	196	58.5	15-16	50-75	6-5-0 1/8

DAILY MUD PROPERTIES

DAILY MUD PROPERTIES

<u>Date</u>	<u>Wt</u>	<u>Visc</u>	<u>WL</u>	<u>pH</u>	<u>Depth</u>
Jan. 19	1060	45			81
20	1190	58		9.0	133
21	1180	52		9.0	133
22	1150	60		9.5	281
23	1190	60		9.5	390
24	1110	56		9.5	481
25	1100	60		9.5	503
26	-	-		-	503
27	-	-		-	503
28	1035	37		11.0	555
29	1080	34	19.0	9.5	639
30	1100	42	16.5	9.5	727
31	1140	43	10.0	10.0	851
Feb. 1	1135	45	12.0	9.5	1025
2	1140	42	11.5	10.0	1214
3	1130	42	12.0	9.5	1345
4	1140	45	12.0	10.0	1454
5	1140	43	12.6	9.5	1490
6	1130	51	10.5	10.0	1499
7	1115	60	9.2	10.0	1507
8	1115	60	9.0	10.0	1507
9	1080	85	8.0	10.0	1515
10	1080	60	7.8	10.0	1516
11	1080	60	7.8	10.0	1516
12	1090	55	8.0	10.0	1535
13	1085	58	6.8	10.0	1580
14	1090	62	8.4	10.5	1641
15	1100	58	10.6	10.5	1710
16	1105	62	11.0	9.0	1785
17	1110	74	9.6	9.5	1846
18	1110	74	9.2	9.5	1846

CORE DESCRIPTION

CORE DESCRIPTION

Core #1 1490.0 - 1507.0 m Cut 17.0 m Rec 17.0 m

<u>Interval</u>	<u>Thickness</u>	<u>Description</u>
1490.0 - 1493.0	3.0	<u>Shale</u> light green to greenish grey, subfissile to blocky, calcareous, soft, light grey limey nodules with roughly horizontal banding, common pyrite nodules and strata bound pyrite grains.
1493.0 - 1497.9	4.9	<u>Shale</u> medium green, fissile, very splinty, calcareous, occasional limey nodule, common pyrite nodules and disseminated strata bound pyrite, occasional brachiopod shell.
1497.9 - 1498.2	0.3	<u>Shale</u> , as above, very bioclastic, fine to coarse fragmental at base, abundant well preserved brachiopod shells at top, and shell fragments with depth, abundant pyrite, pink fluorescence. (Top of Slave Point at 1498.2 m)
1498.2 - 1500.0	1.8	<u>Limestone</u> light brown, microcrystalline, dense, hard, tight, abundant scattered stromatoporoids, abundant amphipora in some horizons, common brachiopod shells, occasionally acting as nucleus for surrounding stromatoporoid growth, occasional shaley parting, occasional stylolites, some pyrite nodules, <u>common vertical hairline fracture at top, infilled with calcite, bright yellow spotty fluorescence in stromatoporoids commonly more concentrated around outer edge, 8 cm zone seeping light brown oil from open hairline fracs at 1499.2 m, heavy bright yellow fluorescence with bright yellow cut, trace seeping oil at 1499.9 m.</u>

CORE DESCRIPTIONS (continued)

<u>Interval</u>	<u>Thickness</u>	<u>Description</u>
1500.0 - 1502.8	2.8	<u>Limestone</u> light brown, as above some argillaceous, irregular black shale partings with rare slickensides large irregular bulbous stromatoporoids, commonly growing on shell fragments, common vertical hairline fracture infilled by calcite at top, occasional open vertical and horizontal hairline fracture, pale yellow spotty fluorescence in stromatoporoids, rare vug.
1502.8 - 1504.0	1.2	<u>Limestone</u> light brown, as above, abundant amphipora fragments, becoming scattered with depth, smaller stromatoporoids, rare gastropod, very pale yellowish-pink fluorescence in fossils.
1504.0 - 1505.8	1.8	<u>Limestone</u> light brown, as above, some shaley banding at base, scattered small stromatoporoids pale yellowish-pink fluorescence in stromatoporoids, rare brachiopod seeping oil.
1505.8 - 1507.4	1.6	<u>Limestone</u> light brown, as above, some shaley banding, scattered stromatoporoids, occasional gastropods, abundant vertical fractures infilled by calcite at top, large open vertical fractures with coarse drussy calcite crystals lining fractures, large open vugs along partially infilled cross-cutting fracture near base, horizontal fracture at base, black shale parting with slickensides at bottom of core, heavy uniform bright yellow fluorescence in open fractures, some spotty light brown oil stain trace seeping oil, good bright yellowish-white cut from open fractures.

Core #2 1507.0 - 1516.0 m Cut 9.0 m Rec 9.0 m

<u>Interval</u>	<u>Thickness</u>	<u>Description</u>
1507.0 - 1507.8	0.8	<u>Limestone</u> light brown, microcrystalline, generally massive appearance, dense, argillaceous, hard, tight, some stromatoporoids with irregular light grey chert replacing stromatoporoids, rare polished limestone surface at top of core, shale parting with slickensides at top, <u>large open vertical fractures with drusy calcite crystal growth partially infilling fracture, slight spotty oil stain, some black bitumen along fracture, common closed hairline fractures associated with large fractures, pale to bright yellow fluorescence on surface of fractures, good cut.</u>
1507.8 - 1509.6	1.8	<u>Limestone</u> , as above, scattered small stromatoporoids, trace brachiopod and gastropod shells, trace sparry calcite replacing fossil fragments, occasional black shale parting with slickensides, <u>trace open hairline fractures, trace seeping oil at 1508.2 m from hairline fracture, pale yellow fluorescence along fracture.</u>
1509.6 - 1512.0	2.4	<u>Limestone</u> light brown, microcrystalline, argillaceous, dense, hard, tight, fragmental, abundant brachiopod and mollusk shell fragments, scattered stromatoporoids, occasionally growing on shale fragment, small well preserved gastropods, sparry calcite commonly replacing shell fragments, <u>rare moldic porosity, fossil debris becoming more scattered with depth, generally massive appearance at base of interval, trace open hairline fractures with bright yellow fluorescence along fracture, trace light brown oil seeping from fractures.</u>

CORE DESCRIPTION (continued)

<u>Interval</u>	<u>Thickness</u>	<u>Description</u>
1512.0 - 1512.8	0.8	<u>Limestone</u> , as above, bulbous stromatoporoids, abundant open hair-line fractures, infilled at base, spotty to heavy light brown oil bleeding from open fractures and stromatoporoids (top 0.6 m), bright yellow fluorescence, good yellowish-white cut.
1512.8 - 1514.1	1.2	<u>Limestone</u> light brown, microcrystalline, argillaceous, largely massive appearance, hard, tight, common black shale laminae and partings with slickensides, occasional shell fragments.
1514.1 - 1514.6	0.5	<u>Limestone</u> , as above, bulbous stromatoporoids, brachiopod shells, irregular light and dark grey chert replacing stromatoporoids, common black shale partings with trace slickensides, rare vug, trace open hairline fractures.
1514.6 - 1515.0	0.4	<u>Limestone</u> light brown, micorcrystalline, argillaceous, massive, dense, hard, tight.
1515.0 - 1516.0	1.0	<u>Limestone</u> light brown, as above, abundant amphipora in some horizons, bulbous and irregular stromatoporoids, commonly enveloping coral fragment, shale laminae and partings with trace slickensides, <u>pale yellow fluorescence in stromatoporoids.</u>

GEOLOGICAL SUMMARY

CRETACEOUS - Fort St. John Group?

From spud to 320 m the sample quality was very poor. Throughout the interval, loose unconsolidated sand was the dominant lithology. However, the steady increase in mud weight in this interval was caused by solids entering the mud system from the formation. It was assumed that most of the sand was caving and that a very soft mudstone or claystone was being drilled.

From 320 - 395 m it is considered that the section is predominantly sandy. The samples consist of varicoloured, loose, unconsolidated sand grains of granitic origin, medium grained to pebbles with a layer of granitic boulders at about 391m. The clay content of the sand or indeed the possible presence of claystone intervals in the section was impossible to determine from samples because the fines were probably washing into the mud system.

Below 395 m the lithology consists of shale, medium to dark grey sub fissile to platy, earthy, bentonitic, sandy with the sand content decreasing down section. At 450 m the shale becomes dark to very dark grey to black, micromicaceous, slightly pyritic, bituminous in part, slightly carbonaceous, fissile and cusped (over pressured). There are stringers of bentonite throughout and a trace of grey green shale.

A zone of coarse, loose sand grains imbedded in the shale between 480 - 484 m probably indicates a lag deposit at the unconformity with the underlying Wabamun Formation.

Gas readings gradually increased below 415 m and reached a maximum of 45 units in a zone of bituminous/carbonaceous shale.

Oil was noted, breaking out on the shaker screens throughout the 0 - 484 m interval but it is considered that this oil is tarry or dead oil. No heavy hydrocarbons were recorded on the gas chromatograph.

WABAMUN

The Wabamun consists of a thick section of massive limestone, becoming very silty and interbedded with siltstone at the base.

The limestone is typically cream, buff, off white, crypto-crystalline to microcrystalline, chalky in part, bioclastic in part, fragmental in part, some crinoidal, occasionally pelletoidal, clean to slightly argillaceous, slightly dolomitic, silty in part, trace to some slightly bituminous, soft, traces pyrite grains and micro-pyrite, traces clear sparry calcite veinlets, generally tight, traces porosity at top with weak cut and small gas show. Traces of open hairline fractures and small gas peaks are present at 725 - 755 m.

At the base the limestone becomes very silty grading into/interbedded with siltstone light grey, subvitreous in part, very calcareous to limey, generally clean, moderately hard, traces fossil fragments.

JEAN MARIE

A slight drilling break and small gas peak mark the top of the Jean Marie.

The sandstone at the top is light grey to buff grey, quartzose, very fine grained to fine grained in part, angular to subangular, well sorted, FW 9-C, some silty, clean, very calcareous, trace porosity, trace staining, some pale yellow fluorescence, poor yellowish - white cut, bright yellow cut in crushed sample.

Interbeds of shale greenish grey, subfissile calcareous, and interbeds of silty limestone are present with depth.

FORT SIMPSON

The Fort Simpson Formation consists of a great thickness (approximately 600 m) of light green shale and light grey siltstone with some thin interbeds and stringers of limestone.

The top section contains interbedded shale and siltstone but towards the base the amount of siltstone is reduced to stringers.

The shale is light green, greenish grey, subfissile to fissile, splintery, some platy, slightly micromicaceous to micromicaceous, non-calcareous to slightly calcareous with depth, very soft.

The siltstones are light grey, light greenish grey, blocky, sub-vitreous in part, calcareous in part, dolomitic in part, clean to slightly argillaceous, occasionally sandy, micromicaceous to micaceous, moderately hard.

The limestone that is present occurs mainly at the top and is cream, buff, some off white, cryptocrystalline to some microcrystalline, some chalky, massive appearance, soft.

Open fracturing is present at the very base of the Formation. Rotary torque and a gas peak of 500 units was encountered at 1368 - 1369 m. Traces of open hairline fractures, traces of loose calcite - probably fracture infill occur in samples thereafter. A marked increase in background gas is present after encountering the fracture zone just discussed.

MUSKWA?

The top of the Muskwa is marked by a trace of coarse grained well rounded sand grains in samples. Also some light to medium grey shales appear at the top of the Muskwa. These shales are thinly interbedded with the light green shales typical of the Ft. Simpson Formation. The light to medium grey shales are subfissile, earthy, some silty, some slightly marly, with black carbonaceous flakes - carbonaceous plant remains, soft.

Stringers and occasional thin interbeds of siltstone are present in the Muskwa. Minor stringers of cream to off white limestone are also present.

Traces of open hairline fractures and base calcite fracture are present through the Muskwa. High background gas reading are attributed to open fracturing. Traces of gas bubbling out of shale chips were noted in the 1405 sample. (chips were examined under water).

Near the base of the Muskwa a 9 m drilling break revealed the presence of dark brown shale, blocky, earthy, subbituminous to bituminous, slightly dolomitic, laminated appearance, soft, petroliferous odor, faint to pale yellow fluorescence, slight to some bright yellow cut at base. This dark brown shale is radioactive on logs.

The base of the Muskwa is present in Core #1.

SLAVE POINT

The top of the Slave Point Formation was encountered in Core #1 and is marked by a sharp lithological boundary between the light to medium brown limestone of the Slave Point and the overlying light to medium green to grey shales of the Muskwa.

The limestone that comprises the Slave Point Formation is micro-crystalline, crypto to finely crystalline in part, bituminous and pyritic in lower horizons, bioclastic with common to abundant large bulbous stromatoporoids and *Amphipora*.

While the limestone is generally clean there are shaly partings throughout which display some slickensiding in the core.

Streaks of poor, fracture, intercrystalline and vuggy porosity were noted throughout the interval with only fracture porosity being displayed in the interval cored by Cores #1 and #2. Despite oil staining and oil bleeding from the fractures DST #1 tested only gas and recovered salty mud with no trace of any oil. Clearly the oil is localised only in some closed fractures that are not interconnected.

Gas readings over the zone averaged about 15 units with a peak in excess of 100 units in the 1505 - 1508 m interval and corresponded with the most fractured zone in the core.

WATT MOUNTAIN

A two metre drilling break at 1559 m is correlated with a similar drilling break at 1575 m on the Home Silt Lake A-64 well. This break marks the top of the Watt Mountain Formation.

A distinctive lithology change was hard to pick however, the only indications being that 5% of the sample contained a blue green to apple green slightly waxy shale with limestone inclusions. Lower in the section the samples contained an increasing amount of grey green shale, fissile with carbonaceous streaks. This shale is soft and crumbly and it was assumed that much of the Watt Mountain lithology was being taken into the mud system.

Gas readings over the Formation peaked at a maximum of 20 units.

SULPHUR POINT

A good drilling break accompanied by a marked increase in the total gas readings at 1565 m indicated a change to the Sulphur Point Formation.

The lithology is limestone, off white to buff brown, bioclastic, pelletal in part, bituminous in the upper horizons and chalky in part. The limestone is cryptocrystalline to medium crystalline and displays streaks of fair intercrystalline and vuggy porosity with a dead oil or bituminous staining and a poor to moderate fluorescence. No live oil was noted and while the gas readings over the interval were up to 50 units, the heavier gasses were seen only as a trace. No core was cut in the Formation because of the lack of significant oil shows.

KEG RIVER

A good drilling break at 1605 m was accompanied by common slickensides and fracture fill dolomite with dead oil staining. This break was interpreted as a fault zone bringing the Upper Keg River dolomites into tectonic contact with the Sulphur Point Formation.

Dolomites are the predominant lithology although interbeds and stringers of limestone were observed in the upper 20 m of section. The dolomites are generally buff to medium brown, micro to medium crystalline with a general increase in crystal size down section. The lithology is calcareous in part and displays streaks of poor to fair fracture, vuggy and intercrystalline porosity with dead oil and bitumen staining. No live oil was noted and the heavy gasses were present only as a trace.

Fracture fill dolomite was observed throughout the section, together with some slickensides, the fracturing becoming more common towards the base of the section.

Crinoidal dolomite was noted below 1730 m.

Stringers of limestone are present in the section between 1620 and 1660 m and earthy limestones were observed between 1740 and 1750 m.

It was not possible to distinguish the Upper from the Lower Keg River Formations from the samples. The micro to cryptocrystalline earthy limestones that are present in the A-64 well at the Lower Keg interval were not present in this well.

CHINCHAGA

A very well defined drilling break at 1751 m marked the top of the Chinchaga Formation. Although dolomites of similar appearance to the Keg River are present in the upper Chinchaga beds some distinctive lithologies are present.

Buff coloured earthy dolomites are present in the upper part of the Chinchaga. These are anhydritic and calcareous in part, crypto to microcrystalline. They are interbedded with a tan coloured dolomites, cryptocrystalline, argillaceous, brittle and stringers of anhydrite. Towards the base of the section the amount of anhydrite in the samples increases and is interbedded with buff to tan dolomites, argillaceous, brittle.

The base of the Chinchaga section consists of beds of pale green to green grey shale, waxy, pyritic with silty to sandy laminations. This zone probably indicates a transitional zone from the predominantly arenaceous sediments of the Basal Red Beds to the evaporitic succession of the Chinchaga.

GRANITE WASH AND BASAL RED BEDS

A good drilling break at 1787 m marked the top of the Granite Wash Formation. The lithology of the Granite Wash is predominantly a quartz, feldspar sand, poorly consolidated, medium grained to conglomeratic. At the shaker the samples appeared brown to rusty red in colour due to a clay matrix and/or interbeds. This clay was mostly being taken into the mud system, thus it was difficult to interpret the framework and the porosity of the sands. The sandstones were interbedded with Chinchaga - type dolomites and anhydrites in the upper section and progressively more red and green shale horizons towards the base.

The lowermost section of the Formation consists of weathered granite that may have a rusty red clay matrix.

Gas readings throughout the Formation were low and there was no stain or fluorescence observed.

PRECAMBRIAN

Unweathered granite was encountered at 1827 m and consists of quartz, cream to pink to red feldspars and biotite with minor chlorite.

SAMPLE DESCRIPTIONS

SAMPLE DESCRIPTIONS

- 0 - 20 By pass shaker - no samples.
- 20 - 60 Questionable interpretation of samples - very poor quality - poor cleaning of hole, drilling with very low viscosity mud, abundant fill on connections. Loose unconsolidated Sand, clear to pink, quartzose, coarse grained, sub to well rounded, well sorted, FW C, with grains of orthoclase, brown and green micas and angular quartz. Also there are common lithic fragments of granite, micro to finely crystalline dolomite (fluorescent with fair cut), microcrystalline limestone (crinoidal in part) brick red siltstone, Probably glacial fill - no fluorescence but a weak cut is displayed with live light oil breaking out on the shaker screens, especially in the 40 - 55 m interval. 5 - 10% of samples shale light to medium grey, sub fissile, carbonaceous, moderately soft, all chips are rounded - possible Shaftsbury Formation. It is unclear as to whether these shale chips are part of drilled formation or lithic fragments in fill.
- 60 - 70 Sand as above, medium grained, coarse grained in part; 5% Shale as above.
- 70 - 85 Sand as above with occasional off white chert grains, granules, pebble conglomerate in part, sub angular to sub rounded; less than 5% Shale content.
- 85 - 133 Increasing mud weight and viscosity - hole cleaning better. Sand as above, medium to coarse grained, sub rounded, angular to sub angular in part, granules as above in part, probably cavings.
- 133 - 145 Claystone light buff to whitish grey, speckled with carbonaceous flecks, trace silty material, irregular, very soft to earthy, questionable interpretation because of abundant unconsolidated sand.
- 145 - 155 By pass shaker, no sample.

- 155 - 205 Sand, loose, unconsolidated as above with lithic fragments of granite, green schist, pink orthoclase occasional carbonates, pyrite medium grained to pebble conglomerate, angular to sub rounded, well sorted, FWC? - possible clay matrix supporting grains?? Questionable interpretation.
- 205 - 240 Claystone light to medium brown grey, bentonitic, soft, earthy with imbedded coarse grains and pebbles of quartz and lithic fragments 'floating' in clay matrix, light oil breaking out on shaker screens, no fluorescence, weak cut. Claystone very sandy in part with stringers of loose unconsolidated sand as above, with clay matrix, medium grained to pebbles, sub rounded, poor to moderate sorting, FW 6.
- 240 - 265 Sand as above, clay matrix?, generally coarse grained to pebbles, sub angular to sub rounded, well sorted FW?
- 265 - 300 Claystone as above less bentonitic and less earthy, generally medium brown grey, very sandy, sub fissile and shaly in part; grades to Sand generally as above, kaolinitic in part with abundant clay matrix, medium grained to pebbles, sub angular to sub rounded, poor sorting, FW 6-7.
- 300 - 305 Sand loose, unconsolidated as above, medium grained to pebbles, clay matrix, sub rounded, poor sorting, FW 6-7; grades to Claystone as above.
- 305 - 320 Sand varicoloured as above, very poorly consolidated in part, pyrite in part, coarse to very coarse grained, medium grained to pebbles in part, sub rounded, well sorted, FW ? - possible clay matrix washed out, porosity?, no fluorescence, weak cut.
- 320 - 325 Claystone as above, very sandy with granules and pebbles; grades to Sandstone in part.
- 325 - 395 Sand vary coloured, loose, unconsolidated, clean with grains and locally pebbles of pink orthoclase, pink and light grey granite, occasional lithic fragments of chert, carbonate and micascist, medium grained to pebbles, sub angular to sub rounded, moderate to well sorted, FWC, good to excellent intergranular porosity, oil breaking out on shaker screens, no fluorescence, weak cut, no indication of clay matrix.

- 395 - 405 Claystone light to medium brown grey, earthy, sandy.
- 405 - 455 Shale medium grey, dark grey in part, sub fissile to platy, sub elongate, smooth even, micromicaceous, carbonaceous in part, earthy in part, bentonitic in part, sandy to very sandy especially near top of section, stringers of bentonite near base.
- 455 - 484 Shale very dark grey, fissile, splintery, cusplate, smooth, micromicaceous, moderately hard, trace fossils (fish?); some Shale dark grey brown, bituminous, irregular, uneven texture; trace shale grey green; stringer loose coarse sand grains sub rounded 'floating' in Shale matrix at base of section.
- 484 - 503 Limestone cream to off white, argillaceous, chalky to fine crystalline, bioclastic, FW 5-8, trace pyrite; nodular appearance, bitumen and dead oil on partings, no fluorescence, weak cut, streaks poor vuggy or solution porosity.
- 503 - 530 No sample returns - drilling with water.
- 530 - 555 Limestone off white to cream, generally clean, argillaceous in part, very fine to fine bioclastic, FW 5-7 with crinoid and shell fragments, crypto-crystalline, chalky, very fine crystalline in part, granular texture in part, trace slickensides in part.
- 555 - 560 No returns.
- 560 - 580 Limestone off white to cream, slightly bituminous, slightly argillaceous, chalky, soft, slightly dolomitic in part, platy, crypto-microcrystalline, very fine to fine, bioclastic FW 4?, trace slickensides.
- 580 - 590 Limestone off white to light cream, microcrystalline in part, platy, chalky, slightly bituminous, slightly argillaceous, slightly dolomitic, pelletoidal in part disseminated pyrite grains, traces slickensides or shearing, soft.

- 590 - 600 Limestone off white to light cream, generally microcrystalline, chalky in part, slightly argillaceous, slightly bituminous, some bioclastic or fragmental, FW 4, slightly dolomitic, soft.
- 600 - 610 Limestone off white to light buff, microcrystalline to very fine grained, microfragmental to very fine fragmental, chalky in part, generally clean, slightly dolomitic, soft, tight.
- 610 - 630 Limestone off white to buff, cryptocrystalline to microcrystalline, chalky in part, some bioclastic, clean to slightly argillaceous, slightly bituminous, slightly dolomitic, soft, trace clear calcite infilling former vugs or replacing fossils.
- 630 - 640 Limestone as above; stringers Shale dark brown, blocky, bituminous, slightly dolomitic, soft.
- 640 - 660 Limestone off white, cream, as above, some bioclastic FW 2-3, some pelletoidal, some massive appearance, trace clear calcite.
- 660 - 670 Limestone cream, some off white, chalky in part, generally microcrystalline, slightly argillaceous, slightly dolomitic, generally massive appearance, trace bitumen, faint fossil fragments, trace stromatolite? trace clear calcite.
- 670 - 695 Limestone cream, off white, buff, becoming less chalky, generally microcrystalline, very fine fragmental, some bioclastic, FW 4-6, clean to very slightly argillaceous, slightly dolomitic soft, tight; rare stylolite, rare crinoid, traces clear calcite veinlets.
- 695 - 720 Limestone cream, buff, cryptocrystalline to microcrystalline, some fragmental FW 2-3, generally massive appearance, clean, slightly dolomitic, trace bitumen, soft, trace pellets, trace crinoid, trace clear calcite veinlets.

- 720 - 735 Limestone cream, cryptocrystalline to very fine grained, very fine fragmental, some bioclastic, FW 2-4, silty, generally clean, slightly dolomitic, trace bitumen, trace pyrite and disseminated micropyrite, trace crinoids, trace clear calcite veinlets, trace open hairline fractures.
- 735 - 745 Limestone as above, generally massive appearance, some bioclastic, FW 1-2, silty in part, trace bitumen, trace pyrite, trace ostracod, trace clear calcite, trace open hairline fractures.
- 745 - 755 Limestone cream to light buff, cryptocrystalline to microcrystalline, fragmental, crinoidal, FW 3-7, silty in part, slightly argillaceous, slightly dolomitic, trace open hairline fractures.
- 755 - 775 Limestone cream, buff, off white, cryptocrystalline to microcrystalline, chalky in part, some bioclastic, some crinoidal, FW 1-3, massive appearance in part, slightly argillaceous, silty in part, slightly dolomitic, soft, trace pyrite, trace disseminated bitumen stains.
- 775 - 810 Limestone cream, off white, light brown, cryptocrystalline to microcrystalline, chalky in part, very silty in part, some grading into limy siltstone, generally massive appearance, very slightly to slightly argillaceous, traces fossil fragments, minor fragmental, very slightly dolomitic, trace clear sparry calcite veinlets.
- 810 - 835 Siltstone light grey, subvitreous, clean to slightly argillaceous, very calcareous to limey, grading into silty limestone; interbedded with Limestone cream, light grey, off white, cryptocrystalline to microcrystalline, chalky in part, generally massive appearance, very silty in part, grading into siltstone; traces fossil fragments traces pyrite.
- 835 - 860 Siltstone interbedded with Limestone as above/ minor light greenish grey Shale.
- 860 - 875 Siltstone light grey, as above sandy in part; interbedded with Limestone cream, light grey, off white, as above; thin interbeds Shale light greenish grey, subfissile, calcareous, soft.

875 - 880

Sandstone light grey to buff grey, quartzose, very fine grained, angular to subangular, well sorted, FW 9-C, some silty, generally clean, calcareous to very calcareous, generally tight with traces porosity, trace staining; interbeds Shale greenish grey, fissile, splinty, non-calcareous to very slightly dolomitic, micro-pyrite, some pale yellow fluorescence, poor yellowish - white cut.

880 - 885

Sandstone light grey, generally as above, some salt and pepper, fine grained block brittle bitumen? grains, very fine to fine grained in part, tight, very faint yellowish fluorescence, no cut; interbedded with Limestone cream, generally cryptocrystalline, slightly chalky, massive soft, silty in part; interbeds Shale greenish grey, as above.

885 - 895

Limestone buff, cream, as above, interbedded with Siltstone light grey to buff grey, sub-vitreous, very calcareous, clean to slightly argillaceous, grading into silty limestone; interbedded with Shale greenish grey, as above.

900 - 905

No sample.

905 - 930

Siltstone light grey subvitreous, very calcareous to limey, clean to slightly argillaceous, grading into silty limestone; interbedded with Limestone light grey, cream, off white, as above, very silty in part, grading into calcareous siltstone; interbeds Shale greenish grey, minor brown, fissile, splinty, very soft; trace fossil fragments, rare ostracod.

930 - 1105

Siltstone light grey, pale to light greenish grey, subvitreous in part, blocky, dolomitic, calcareous in part, generally slightly argillaceous, micaceous, some laminated appearance; interbedded with Shale light brown, light green to greenish grey, fissile, some platy, splinty, slightly micromicaceous, non-calcareous, very soft.

- 1105 - 1220 Shale light green, some light brown, fissile, some platy, smooth surface texture, semi-lustrous appearance, slightly micromicaceous to micromicaceous, non-calcareous, traces disseminated micropyrte, very soft; interbeds Siltstone light grey, light greenish grey, generally as above, micromicaceous to micaceous in part, moderately soft.
- 1220 - 1235 Shale as above; interbeds Siltstone as above; thin interbeds Limestone cream to off white, cryptocrystalline to microcrystalline, some chalky, massive appearance, soft; rare ostracod.
- 1235 - 1365 Shale light green, greenish grey, minor light brown, subfissile to fissile, splintery, micromicaceous, slightly calcareous, slightly dolomitic, soft; thin interbeds and stringers Siltstone light grey, light greenish grey, blocky, some subvitreous, slightly argillaceous, part dolomitic, some calcareous, micromicaceous to micaceous in part; occasional stringer Limestone cream, off white, cryptocrystalline, some chalky, massive appearance, soft.
- 1365 - 1390 Shale with stringers of Siltstone and Limestone as above, trace open hairline fractures in Limestone and siltstone, trace flat surfaces in shale with rare calcite veining adhering, trace loose calcite probably as fracture infill, rare shear marks, rare calcite rhomb.
(table torque and 500 units gas from top of fractured unit at 1368 - 1369 m).
- 1390 - 1472 Shale light green, greenish grey, as above; also light to medium grey, subfissile, block carbonaceous flakes - carbonaceous plant remains? slightly marly in places, some earthy, some silty, soft; thin interbeds and stringers Siltstone as above; occasional stringer Limestone as above; traces loose calcite.
- 1472 - 1490 Shale dark brown, blocky, earthy, subbituminous to bituminous, slightly dolomitic, laminated appearance, soft, petroliferous odor, faint to pale yellow fluorescence, slight to some bright yellow cut at base, interbedded with Shale light green, as above; trace to common pyrite, trace pyrite cubes (abundant sample coming over shaker; some light green shale appears to be caving; worked tight sloughing hole at approximately 1465 m.

1490

Bottom Hole Sample

Shale light green, as above; also dark brown to dark grey, as above; stringer Limestone off white, chalky, cryptocrystalline rare stromatoporoid, rare pyrite nodule, trace microcrystalline, trace closed hairline fractures; also minor Limestone light grey, microcrystalline, semi-transparent, dense, massive.

1490 - 1507

Core #1

1507 - 1516

Core #2

1516 - 1520

Limestone light to medium brown, mottled, bioclastic clean, micro to very fine crystalline, fine crystalline in part, argillaceous to bituminous partings, poor intercrystalline, vuggy and fracture porosity with partial sparry calcite infill, light stain with fair spotty fluorescence, good streaming cut.

1520 - 1525

Limestone as above, light brown, tight to trace porosity as above, trace to poor stain and fluorescence, fair to poor cut.

1525 - 1530

Limestone buff to light brown, argillaceous, bioclastic, bituminous partings, micro to very fine crystalline, weak spotty fluorescence weak cut, generally tight.

1530 - 1545

Limestone as above, slightly argillaceous, dolomitic in part, sparry calcite as interfragmental infill.

1545 - 1559

Limestone cream to light brown, slightly argillaceous, bioclastic, crypto to microcrystalline, spotty stain and fluorescence, to some chips, fair cut - bituminous partings, pyritic in part, trace Amipora.

1559 - 1565

Very poor returns on shaker screen, probably soft Shale being ground into mud system. Shale light grey green to apple green to blue green. Grey green is fissile, micaceous, pyritic, trace carbonaceous material, slightly calcareous, very soft; apple green to blue green has limestone inclusions - rounded in part, slightly waxy, irregular blocky, sub fissile in part; interbeds Limestone as above.

1565 - 1570

Limestone cream to light brown, pelletoidal to bioclastic FW 8-9 with clear calcite matrix in part, bituminous, cryptocrystalline-chalky, common mineral fluorescence, weak cut; streaks Limestone light brown to tan, argillaceous, microcrystalline to fine crystalline, bioclastic, fair interfragmental and vuggy porosity, no live staining, good fluorescence and good streaming cut to some chips, some bitumen staining on partings, trace stylolites.

1570 - 1575

Limestone as above, FW 2-3; porous Limestone streaks fine to coarse crystalline fair to poor fluorescence and cut.

1575 - 1590

Limestone off white to buff brown, bioclastic, FW ?, cryptocrystalline to chalky, slightly argillaceous in part, micro to fine crystalline in part, streaks fair intercrystalline and vuggy porosity in micro to fine crystalline, dead oil and bitumen on partings, no stain, fair - poor spotty fluorescence, fair streaming cut to some chips.

1590 - 1595

Limestone generally as above brecciated in part with clear calcite infill, bioclastic, FW 5+, some fair interfragmental and vuggy porosity, no stain, poor fluorescence.

1595 - 1605

Limestone buff to tan, pelletoidal to bioclastic, crypto to microcrystalline, dolomitic in part, clear calcite as interfragmental infill, pyrobitumen infill of rare porosity and partings, trace slickensides.

1605 - 1610

Limestone buff generally as above, slightly argillaceous, cryptocrystalline, fine to medium crystalline in part; zone of sloughing Shale grey green, elongate, cusped, fissile, carbonaceous streaks slightly calcareous; common to abundant slickensides throughout, common to abundant fracture fill dolomite with minor calcite, probably fault zone, contains dead oil.

1610 - 1620

Poor samples due to abundant sloughing shale and possible limestone cavings. Limestone buff, generally as above, slightly argillaceous, cryptocrystalline, fine to medium crystalline in part; stringers Dolomite light brown to medium brown, very fine to fine crystalline, medium crystalline in part, no stain, weak cut, no visible porosity; common dolomite fracture fill some dead oil associated; trace Chert medium brown, replacing carbonate.

1620 - 1660

Dolomite buff to light brown, medium brown in part, slightly argillaceous to slightly sandy, bituminous in part, buff is microcrystalline, light to medium brown is very fine to medium crystalline, slightly calcareous, poor to fair streaks of fracture, vuggy and intercrystalline porosity with bitumen infill, sucrosic in part, no stain, moderate to poor fluorescence, bitumen on partings; common fracture fill dolomite in part, trace slickensides; stringers Limestone buff to off white, microcrystalline to chalky.

Dolomite generally as above, buff to medium brown, micro to fine crystalline, no stain, fair fluorescence, good streaming cut.

1660 - 1675

Dolomite generally as above, light buff to medium brown, fine crystalline, micro to very fine crystalline in part, becomes fine down section, no stain, good streaming cut, tight to poor intercrystalline porosity, sucrosic in part, some fracture fill calcite and dolomite.

1675 - 1690

Dolomite light buff, light to medium brown in part, slightly silty, very fine crystalline, sucrosic in part, trace intercrystalline porosity, no show, weak cut.

1690 - 1730

Dolomite, light buff to medium brown down section, slightly silty in part, very fine to fine crystalline, micro to medium crystalline in part, poor fracture, vuggy and intercrystalline porosity, dead oil and bitumen associated with intercrystalline porosity streaks in medium brown, weak cut, some dolomite and minor calcite fracture fill increasing to extensively fractured down section.

- 1730 - 1740 Dolomite medium buff to medium brown, buff to light brown in part, argillaceous, bituminous, very fine to fine crystalline, coarse crystalline in part with crinoid fragments, FW ?, fair sucrosic porosity with partial dead oil infill, in buff horizons, no stain, abundant fracture fill dolomite and calcite.
- 1740 - 1750 Dolomite light to medium grey brown, argillaceous to silty, crinoidal in part, very fine to fine crystalline in part, calcareous, sucrosic with fair intercrystalline porosity with bitumen and dead oil infill, no stain, slow good cut; abundant to extensive fracture fill dolomite and calcite; stringers to thin interbeds Limestone buff to grey brown, crypto to micro-crystalline, earthy.
- 1750 - 1760 Dolomite as above; stringers Dolomite buff, crypto to microcrystalline, platy, earthy in part, calcareous, anhydritic, silty to argillaceous; stringers Limestone as above; common fracture fill dolomite, calcite.
- 1760 - 1765 Dolomite buff, earthy, argillaceous, slightly calcareous, anhydritic, crypto to micro-crystalline; interbeds Dolomite as above; stringers Anhydrite white, soft, sucrosic; some fracture fill dolomite, calcite.
- 1765 - 1770 Dolomite buff as above; interbeds Dolomite light brown to tan, cryptocrystalline brittle, argillaceous to sandy; stringers Anhydrite buff to light brown, microcrystalline, chalky in part.
- 1770 - 1775 Dolomite light buff to tan, argillaceous, hard brittle, crypto to microcrystalline, slightly calcareous in part, slightly anhydritic; interbeds Anhydrite off white to tan.
- 1775 - 1780 Dolomite as above slightly sandy; interbeds Anhydrite as above; stringers Limestone buff crypto to microcrystalline, earthy.
- 1780 - 1787 Anhydrite buff to cream, micro to fine crystalline, dolomitic in part; interbeds Dolomite as above, very argillaceous, earthy in part; basal unit of Shale pale green to green grey, waxy in part, sub fissile, dolomitic, soft, laminated with silty and sandy laminations, strata-bound pyrite, locally coarse sand grains float in shale matrix.

- 1787 - 1790 Sandstone light grey to clear, quartzose, silty to argillaceous, medium grained, sub rounded, poor sorting, FW 7, poor - fair intergranular porosity, no stain, no fluorescence, loose sand grains in part generally poorly consolidated; possible interbeds Dolomite and Anhydrite as above.
- 1790 - 1795 Poor sample quality, by-pass shaker - abundant cavings from shaker box.
Sandstone as above, occasional pink feldspar grains, occasional biotite, poorly consolidated with buff calcareous to dolomitic cement - limonitic?, medium to very coarse grained, sub angular to sub rounded, FW ? unknown matrix, no stain, weak cut, possible streaks of fair intergranular porosity, otherwise probably tight.
- 1795 - 1800 Sandstone clear to buff to pink quartzose, with some feldspar grains, rusty coloured clay matrix, calcareous, limonitic?, medium to very coarse grained, sub angular, moderate sorting FW 7-8?, tight?; interbeds shale redish brown, calcareous, soft; stringers Shale light grey to pale green, sandy; stringers Dolomite, Limestone, Anhydrite - possible cavings?
- 1800 - 1810 Sandstone clear to buff pink, quartzose, pink feldspar grains, poorly consolidated in part, argillaceous to silty in part, fine to very coarse grained, sub angular to sub rounded, poor sorting, FW 7-9, calcareous, sideritic, siliceous in part, streaks of fair to good intergranular porosity in unconsolidated zones, haematitic coatings to some grains; stringers Shale pale green to maroon, sandy; stringers Limestone, Dolomite, Anhydrite as above.
- 1810 - 1820 Sandstone pink, quartz, feldspar granite grains, poorly consolidated with some rust red clay matrix in part, medium grained to conglomerate, angular to sub rounded, poor sorting FW 7-9 ? porous where no clay matrix, no stain, no fluorescence; thin interbeds Shale rust red to pale green waxy in part, silty to sandy in part, hematitic where red, soft, earthy in part, dolomitic; stringers Dolomite light buff, microcrystalline, silty to sandy.

1820 - 1827

Sandstone as above, with common hematite staining and cement; stringers to thin interbeds Shale rust red to pale grey green as above; grades down section to weathered Granite with coarse, angular, quartz and pink feldspar grains with some lithic chips of Granite.

1827 - 1846

Granite with coarse crystalline texture of quartz clear to milky white, greenish yellow in part, feldspar cream to pink to brick red, greenish black biotite, chloritic in part.

WATER ANALYSIS

LABORATORY NUMBER

G85-018-3

CONTAINER IDENTITY

LICENCE NUMBER

OPERATOR NAME

HOME OIL COMPANY LIMITED

LOCATION

G-21 NWT

WELL NAME

HOME ET AL SILT LAKE G-21

ELEVATIONS
C.S. Meters GND

625.14

FIELD OR AREA

SILT LAKE

POOL OR ZONE

SLAVE POINT

NAME OF SAMPLER

COMPANY

HALLIBURTON
SERVICESTEST TYPE
DST

NO.

T

MULTIPLE
RECOVERY

Y/N

X

TEST RECOVERY

GASIFIED MUD

SAMPLING POINT

BOTTOM

AMT. & TYPE OF CUSHION

MUD RESISTIVITY

Test Interval (minutes)

1502 - 1516

Perforations (meters)

PUMPING

FLOWING

TYPE OF PRODUCTION

GAS LIFT

SWAB

PRODUCTION RATES

WATER

m³/d

OK

m³/d

GAS

10³ m³/d

GAUGE PRESSURE

kPa

SEPARATOR

TREATER

RESERVOIR

SOURCE

SEPARATOR

TREATER

RESERVOIR

SOURCE

TEMPERATURE °C

DATE SAMPLED (Y-M-D)

85/02/11

DATE RECEIVED (Y-M-D)

85/02/21

DATE REPORTED (Y-M-D)

85/03/08

ANALYST

K.M.

OTHER INFORMATION

NO OTHER INFORMATION

ION

 $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$ Mass
Fraction $\frac{c}{mol \cdot m^{-3}}$

ION

 $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$ Mass
Fraction $\frac{c}{mol \cdot m^{-3}}$

Na

Cl

1 750

49.35

TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$

EVAPORATED @ 110°C

6 435

EVAPORATED @ 180°C

K

Br

AT IGNITION

5 930

CALCULATED

Ca

Mg

Ba

Sr

Fe

NIL

HOME OIL CO. LTD.
DRILLINGSO₄CO₃

OH

H₂S PRESENT

ORGANICS: PRESENT

RELATIVE DENSITY

@ 20°C

REFRACTIVE INDEX

1.3343 @ 20°C

OBSERVED pH

8.3° 21°

RESISTIVITY (Ohm m)

1.01 @ 25°C

REMARKS

The analysis was determined on water extracted from watery mud and is characteristic of a mud filtrate water

LOGARITHMIC PATTERN $c/mol \cdot m^{-3}$

Na

%Ca

%Mg

%Fe

ALBERTA GAS LANDS
REGISTRATION
ASSOCIATION DU PÉTROLE ET DU
GAS DES TERRES DU CANADA
JUNE 17 1985
ENGINEERING AND CONTROL
BRANCH
CONTRÔLE ET DU CONTRÔLE

Cl

HCO₃%SO₄%CO₃

Continued....

HOME OIL COMPANY LIMITED

LABORATORY REPORT NUMBER: G85-018

G85-018-1: Sampled from Top.

RESISTIVITY: 1.04 Ohm metres @25°C

Watery mud.

G85-018-2: Sampled from Middle.

RESISTIVITY: 1.22 Ohm metres @25°C

Watery mud.



CONTAINER IDENTITY

EDMONTON FORT ST. JOHN CA 3Y



LABORATORY NUMBER

685-025-3

WATER ANALYSIS

LICENCE NUMBER

OPERATOR NAME

HOME OIL COMPANY LIMITED

LOCATION

G-21 NWT

WELL NAME

HOME SILT LAKE SOUTH G-21

ELEVATION

625.1

FIELD OR AREA

SILT LAKE SOUTH

POOL OR ZONE

KEG RIVER

NAME OF SAMPLER

COMPANY

HALLIBURTON
TESTERS

TEST TYPE

OST

NO

2

TEST RECOVERY

60 m OF INHIBITOR CUT DRILLING FLUID

MULTIPLE
RECOVERY

X

SAMPLING POINT

BOTTOM

AMT & TYPE OF CUSHION

MUD RESISTIVITY

Test Interval (meters)

1724 - 1734

Performance (meters)

TYPE OF PRODUCTION

GAS LIFT

SWAB

PRODUCTION RATES

m³/d

GAS

10³ m³/d

RESERVOIR

SOURCE

RESERVOIR

SOURCE

GAUGE PRESSURE

IPa

TEMPERATURE

°C

DATE SAMPLED (Y-M-D)

85/02/20

DATE RECEIVED (Y-M-D)

85/03/01

DATE REPORTED (Y-M-D)

85/03/05

ANALYST

S.T.

OTHER INFORMATION

NO OTHER INFORMATION

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na	9 023	0.3174	392.50	Cl	11 410	0.4014	321.76
K	160	0.0056	4.10	Br			
Ca	977	0.0344	24.38	I			
Mg	69	0.0024	2.84	HCO ₃	808	0.0284	13.25
Ba				SO ₄	5 983	0.2104	62.23
Sr				CO ₃	0	0.0000	0.00
Fe	PRESENT			OH	0	0.0000	0.00
				H ₂ S	NIL		

TOTAL SOLIDS $\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$

EVAPORATED @ 110°C

29 220

EVAPORATED @ 180°C

AT IGNITION

27 880

CALCULATED

28 430

ORGANICS: PRESENT

RELATIVE DENSITY

1.022 @ 20°C

REFRACTIVE INDEX

1.3377 @ 20°C

OBSERVED pH

7.6° 21%

RESISTIVITY (Ω·cm)

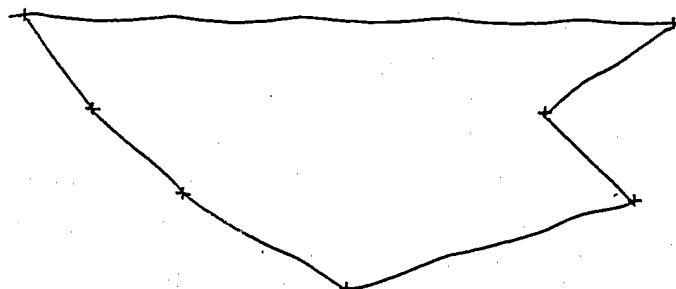
0.275 @ 20°C

REMARKS

The analysis was determined on salty water extracted from watery mud.

LOGARITHMIC PATTERN $c/mol \cdot m^{-3}$

Na
1/2 Ca
1/2 Mg
1/2 Fe



CI
CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRATION DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA

JUN 17 1985
1985

ENGINEERING AND CONTROL
1/2 CO. BRANCH
TECHNIQUE ET DU CONTRÔLE

HOME OIL COMPANY LIMITED

LABORATORY REPORT NUMBER: G85-025

G85-025-1: Sampled from Top.

RESISTIVITY: 0.789 Ohm/meters @ 25°C

Watery mud.

G85-025-2: Sampled from Middle.

RESISTIVITY: 0.670 Ohm/meters @ 25°C

Watery mud.



EDMONTON FORT ST. JOHN CA RY



CONTAINER IDENTITY
WATER ANALYSIS
LABORATORY NUMBER
685-026-1

LICENCE NUMBER
OPERATOR NAME
HOME OIL COMPANY LIMITED

LOCATION
G-21 NWT
WELL NAME
HOME SILT LAKE SOUTH G-21
FIELD OR AREA
SILT LAKE SOUTH
POOL OR ZONE
KEG RIVER
NAME OF EMPLER
HALLIBURTON TESTERS

TEST TYPE
DST
NO.
3
TEST RECOVERY
173 m OF DRILLING FLUID.

MULTIPLE RECOVERY
X

SAMPLING POINT
TOP
AMT. & TYPE OF CUSHION
MUD RESISTIVITY

TYPE OF PRODUCTION
PUMPING
FLOWING
GAS LIFT
SWAB

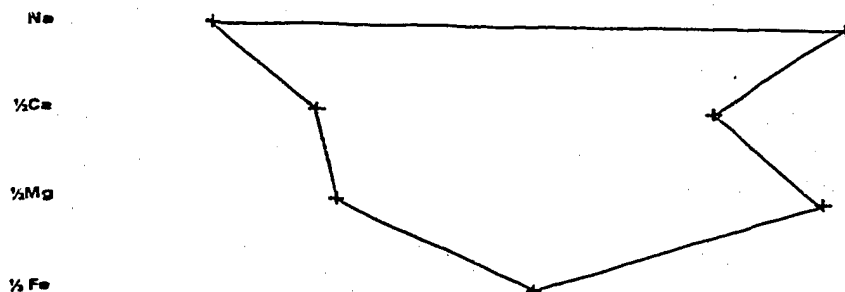
PRODUCTION RATES
SEPARATOR
TREATER
RESERVOIR
SOURCE
GAUGE PRESSURE
TEMPERATURE
DATE SAMPLED (Y-M-D)
85/02/21
DATE RECEIVED (Y-M-D)
85/03/01
DATE REPORTED (Y-M-D)
85/03/05
ANALYST
S.T.
OTHER INFORMATION
NO ADDITIONAL INFORMATION

ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$	ION	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$	Mass Fraction	$\frac{c}{mol \cdot m^{-3}}$
Na	6 527	0.2977	283.92	Cl	6 770	0.3088	190.91
K	223	0.0102	5.71	Br			
Ca	594	0.0271	14.82	I			
Mg	191	0.0087	7.85	HCO ₃	534	0.0244	8.76
Ba				SO ₄	7 086	0.3231	73.70
Sr				CO ₃	0	0.0000	0.00
Fe	TRACE			OH	0	0.0000	0.00
				H ₂ S	NIL		

TOTALS SOLIDS	$\frac{m \cdot V^{-1}}{g \cdot m^{-3}}$
EVAPORATED @ 110°C	22 590
AT IGNITION	21 780
ORGANICS: PRESENT	
RELATIVE DENSITY	1.018 @ 20°C
REFRACTIVE INDEX	1.3368 @ 20°C
OBSERVED pH	7.6
RESISTIVITY (Ohm-cm)	21.0

REMARKS

The analysis was determined on slightly salt water extracted from watery mud.

LOGARITHMIC PATTERN $c / mol \cdot m^{-3}$ 

CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRATION DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA
JUNE 17 1985
ENGINEERING AND CONTROL
HCO₃

HOME OIL COMPANY LIMITED

LABORATORY REPORT NUMBER: G85-026

G85-026-2: Sampled from Middle.

RESISTIVITY: 0.570 Ohm/meters @ 25°C

Watery mud.

G85-026-2: Sampled from Bottom.

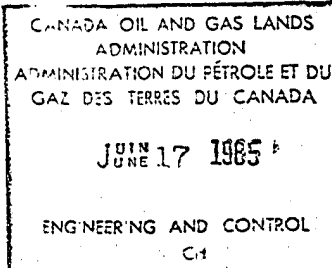
RESISTIVITY: 0.582 Ohm/meters @ 25°C

Watery mud.

CONCORD DRILLING FLUIDS LTD.

HOME SILT LAKE SOUTH G-21 (NORTH WEST TERRITORIES)
DRILLED JANUARY 1985 - FEBRUARY 1985

<u>PRODUCT</u>	<u>DESCRIPTION</u>	<u>TOTAL AMOUNT USED</u>
<u>Avongel</u>	Bentonite is a commercially available clay consisting mainly of clay mineral "montmorillonite" and it occurs in two forms in nature; namely a sodium variety and a calcium variety. The two qualities differ mainly in that sodium bentonite is known to swell to several times its original volume on contact with water. Calcium Bentonite, on the other hand, swells to a much lesser degree. This clay mineral was identified near Montmorillon, France as long ago as 1874 and has been called the world's most versatile mineral. Sodium bentonite deposits are relatively unique, geologically, in that they occur in normal condition only in the western part of North American continent. Bentonite absorbs nearly five times its weight of water and at full saturation it occupies a volume of 12 to 15 times its dry bulk weight. On drying it shrinks to its original volume. Swelling is reversible - it can be (wetted) swelled and (dried) shrunk an infinite number of times if the water is fairly pure. This swelling is important, since the entire swollen mass - that is clay and water - behaves as if it were clay.	41,200 kg
<u>Antisol 380N</u>	Organic, fully chelated form of Zinc described as an ideal Hydrogen Sulfide scavenger for water-based muds.	-154 kg



EXPERIENCE • ENGINEERING • SERVICE

CONCORD DRILLING FLUIDS LTD.

<u>Bicarbonate of Soda</u>	Sodium Bicarbonate - Used to treat soluble calcium when drilling cement.	636 kg
<u>Caustic Soda</u>	Sodium Hydroxide - Used to maintain mud ph of 9 - 10.0	1,325 kg
<u>Lignite</u>	Low grade coal, used to control fluid loss in Drilling Muds.	176 kg
<u>Lime</u>	Calcium Hydroxide is used to increase the viscosity of mud on surface hole sections.	100 kg
<u>Peltex</u>	Ferrochrome Lignosulfonate - used as a thinner for water-based systems.	550 kg
<u>PolySec</u>	A polymer used to extend the yield of Bentonite.	160 kg
<u>Sawdust</u>	Wood Sawdust - Used for Lost circulation.	7,360 kg
<u>Soda Ash</u>	Sodium Carbonate - Used to treat soluble calcium out of the mud by precipitating Calcium Carbonate.	1,680 kg
<u>Staflor</u>	A polymer used to control fluid loss in Drilling Muds.	225 kg

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 267
DATE OF TEST	85-02-23
TEST No.	6
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa

GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.22	1504.17	1505.42	1538.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 760	16 762	17 213		
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		16 751	16 752	17 189		

TIME PERIODS

	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW					
CLOSED IN				PACKER UNSEATED	

LIQUID RECOVERY DATA

METRES	DESCRIPTION OF LIQUID
MEASURED FROM TESTER VALVE	
Nil	TOTAL LIQUID RECOVERY

EQUIPMENT AND WELL DATA

FORMATION TESTED	Slave Point	TEMP. REC. No.	TE98
		DEPTH	1506.67
		MAX. TEMP.	59
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1 m	MUD DENSITY	1110 kg/m ³
		MUD VISC	77 s/L
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1517 BOTTOM 1537 m	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1499.47 m	DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A m	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m
TOTAL DEPTH	1846 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

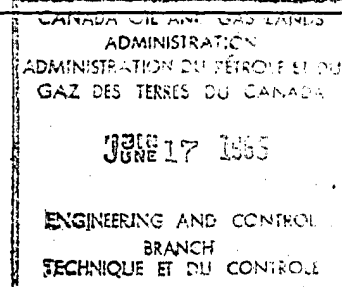
SAMPLE DATA

OIL GRAVITY	@	°C
GAS/OIL RATIO		
REFRACTOMETER/RELATIVE DENSITY		
RECOVERY WATER	@	°C
CHLORIDE CONTENT		mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	N/A	

REMARKS

Misrun. No packer seat.



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE SOUTH
WELL NAME AND NUMBER	HOME SILT LAKE SOUTH G-21
TEST NUMBER	6
TESTED INTERVAL	1517 - 1537

DATES AND

 TIMES
 (00:00-24:00
 HRS.)

 CHOKE
 SIZE
 (mm)

 SURFACE
 PRESSURE
 (kPa)

 GAS
 RATE
 (m³/day)

 LIQUID
 RATE
 (m³/day)

REMARKS

85-02-22

21:30

Job started.

23:00

Run in hole.

23:40

Pump packers up in surface casing.

00:05

Packers didn't pump up.

00:10

Pull out of hole.

00:35

Change out Hydroflate pump.

01:15

Run back in hole.

01:45

Pump up packers in casing.

02:06

Packers set and pulled loose.

02:20

Run in hole.

04:20

Head up.

04:30

Start pumping packers up.

05:01

 Packers set, but when tool opened, packers
 skidded loose and tool closed. Lost 1 m
 in annulus.

05:05

Reset and pump.

05:50

Packers didn't take any weight.

06:15

Pull loose.

09:15

Recover recorders.

12:15

Job complete.

PRODUCTION TEST DATA

		O. D. (mm)	I. D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	76.2	19.03	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1498.22
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.47
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1504.17
80	AP RUNNING CASE.....	127.0	57.2	1.25	1505.42
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
25	TORQUE LIMITER ASSEMBLY.....	127.0	25.4	1.25	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1517.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	17.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



REFER TO INVOICE NO.	59 266
DATE OF TEST	85-02-22
TEST No.	5
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa

GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.35	1504.30	1505.55	1538.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOUR CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC						
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC						

TIME PERIODS

	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW					
CLOSED IN				PACKER UNSEATED	

LIQUID RECOVERY DATA

METRES	DESCRIPTION OF LIQUID
MEASURED FROM TESTER VALVE	
Nil	TOTAL LIQUID RECOVERY

EQUIPMENT AND WELL DATA

FORMATION TESTED	Slave Point	TEMP. REC. No.	TE98
		DEPTH	1506.80 m
		MAX. TEMP.	
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
KB ELEVATION	625.1 m	MUD DENSITY	kg/m ³ 1110
		MUD VISC	s/L 77
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER TOP DEPTHS	1519	BOTTOM DEPTHS	1537 m
DEPTH OF TESTER VALVE	1499.60 m	RATHOLE SIZE	
		DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m
TOTAL DEPTH	1846 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA

OIL GRAVITY	_____ @ _____ °C
GAS/OIL RATIO	_____
REFRACTOMETER/RELATIVE DENSITY	_____
RECOVERY WATER	_____ @ _____ °C
CHLORIDE CONTENT	_____ mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	N/A	

REMARKS

Misrun. No packer seat.

CANADA OIL AND GAS LANDS
 ADMINISTRATION
 ADMINISTRATION: ON DU PETROLE ET DU
 GAZ DES TERRES DU CANADA
 JUN 17 1985
 ENGINEERING AND CONTROL
 BRANCH
 SERVICE ET DU CONTROLE

COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE SOUTH
TEST NUMBER	5
TESTED INTERVAL	1519 - 1537
WELL NAME AND NUMBER	HOME SILT LAKE SOUTH G-21

DATES AND TIMES (00:00-24:00 HRS.)	CHOKE SIZE (mm)	SURFACE PRESSURE (kPa)	GAS RATE (m ³ /day)	LIQUID RATE (m ³ /day)	REMARKS
---	-----------------------	------------------------------	--------------------------------------	---	---------

85-02-22

10:00

Job started.

11:30

Run in hole.

14:15

Head up.

14:55

Pump up packers.

15:15

Packers didn't set.

15:25

Reset and pump.

15:55

Packers didn't set.

16:20

Pull loose.

20:00

Recover recorders.

21:30

Job complete.

PRODUCTION TEST DATA

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	76.2	19.03	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1498.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1504.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1505.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1519.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	15.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17

HALLIBURTON
FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 265
DATE OF TEST	85-02-21
TEST No.	4
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.35	1504.30	1505.55	1538.76		
BLANKED OFF?	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOUR CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC						
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC						

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW				TESTER VALVE OPENED	
CLOSED IN				PACKER UNSEATED	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE98
		DEPTH	1506.80
		MAX. TEMP.	
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1	MUD DENSITY	1110
		MUD VISC	77
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLESIZE	222
PACKER DEPTHS	TOP 1519	BOTTOM 1537	m
DEPTH OF TESTER VALVE	1499.60	DRILL PIPE	114.3
		OD mm	24.7
CASING PERFORATED INTERVAL	N/A	DRILL COLLARS ABOVE TESTER VALVE	71
		ID mm	76.3
TOTAL DEPTH	1846	SURFACE CHOKE	25.4
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05
			mm

LIQUID RECOVERY DATA	
METRES	DESCRIPTION OF LIQUID
MEASURED FROM TESTER VALVE	
Nil	TOTAL LIQUID RECOVERY

SAMPLE DATA	
OIL GRAVITY	@ °C
GAS/OIL RATIO	
REFRACTOMETER / RELATIVE DENSITY	
RECOVERY WATER	@ °C
CHLORIDE CONTENT	mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	N/A	

REMARKS
Misrun. No packer seat.

CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRATION DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA

JUNE 17 1985

ENGINEERING AND CONTROL
BRANCH
TECHNIQUE ET DU CONTRÔLE

COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	
PROVINCE OR TERRITORY	N.M.T.
FIELD OR AREA	SILT LAKE SOUTH
WELL NAME AND NUMBER	LAKE SOUTH G-21
TEST NUMBER	4
TESTED INTERVAL	1519 - 1537

DATES AND

TIMES

CHOKE

SURFACE

GAS

LIQUID

(00:00-24:00

SIZE

PRESSURE

RATE

RATE

REMARKS

HRS.)

(mm)

(kPa)

(m³/day)(m³/day)

85-02-20

20:00

Finish changing packers and bypass pipe.

22:21

Run in hole.

02:15

Head up.

02:50

Start pumping.

03:30

Packers didn't set.

03:35

Reset and pump.

04:15

Packers didn't set.

04:35

Pull loose.

08:35

Recover recorders.

10:00

Job complete.

Top packer cut, change out pump and
service screen.

Misrun.

PRODUCTION TEST DATA

		O.D. (mm)	I.D. (mm)	LENGTH(m)	DEPTH(m)	
3		DRILL COLLARS.....	171.0	71.0	57.28	
50		IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3		DRILL COLLARS.....	171.0	76.2	19.03	
5		CROSSOVER.....	171.0	76.2	0.31	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1498.35
60		HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.60
14		EXTENSION JOINT.....	127.0	25.4	2.16	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1504.30
80		AP RUNNING CASE.....	127.0	57.2	1.25	1505.55
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15		JAR.....	127.0	44.5	1.52	
16		VR SAFETY JOINT.....	127.0	25.4	1.06	
26		PUMP ASSEMBLY.....	127.0	22.3	2.15	
27		SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11		HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13		HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74		TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1519.00
28		PORT ASSEMBLY.....	127.0		1.03	
22		BLANK ANCHOR.....	127.0	57.2	15.57	
75		LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97		BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



REFER TO INVOICE NO.	59 264
DATE OF TEST	85-02-20
TEST No.	3
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	2221	3279	3650	7936		
GAUGE DEPTH	1770.35	1776.30	1777.55	1804.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		20 055	19 847	20 339		
FIRST FLOW	INITIAL	38	201	80	590	
	FINAL	89	201	80	507	
FIRST CLOSED IN		95	17 242	17 012	17 456	
SECOND FLOW	INITIAL	168	298	172	669	
	FINAL	421	504	393	805	
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC						

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW	5	90			02:57
CLOSED IN	60	120		PACKER UNSEATED	08:48

LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
MEASURED FROM TESTER VALVE	173	Mud.
173	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Granite Wash		
TEMP. REC. No.	1E98	DEPTH	1778.80 m
		MAX. TEMP.	47 °C
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K.B. ELEVATION	625.1 m	MUD DENSITY	1110 kg/m³
		MUD VISC	77 s/L
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1791 BOTTOM 1803 m	RATHOLE	mm
DEPTH OF TESTER VALVE	1771.60 m	DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A m	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m 85.85
TOTAL DEPTH	1846 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA	
OIL GRAVITY _____ @ _____ °C	
GAS/OIL RATIO _____	
REFRACTOMETER/RELATIVE DENSITY	
RECOVERY WATER _____ °C	
CHLORIDE CONTENT 26 000 _____ mg/L	
REMARKS	

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No. _____	☐	☒
GAS SAMPLE BOTTLE No. _____	☐	☒
LABORATORY Recovery samples to C and G (Grande Prairie)		

Charts indicate packer seat was lost on closing for Final Closed In period. Perforations plugged off on later attempt to close in tool.

CANADA OIL AND GAS LANDS
ADMINISTRATION DU PÉTROLE ET DU GAZ
GAZ DES TERRES DU CANADA

JUL 17 1985

ENGINEERING AND CONTROL
BRANCH
TECHNIQUE ET DU CONTRÔLE

LEGAL DESCRIPTION	COMPANY	FIELD OR AREA	WELL NAME AND NUMBER
HOME OIL COMPANY LIMITED		SILT LAKE SOUTH	LAKE SOUTH G-21
PROVINCE OR TERRITORY		N.W.T.	
TEST NUMBER		3	
TESTED INTERVAL		1791 - 1803	

DATES AND TIMES (00:00-24:00 HRS.)	CHOKE SIZE (mm)	SURFACE PRESSURE (kPa)	GAS RATE (m ³ /day)	LIQUID RATE (m ³ /day)	REMARKS
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		O.D. (mm)	I.D. (mm)	LENGTH(m)	DEPTH(m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	71.0	28.57	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1770.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1771.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1776.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1777.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	25.8	2.55	1791.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	9.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1803.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1804.76

EQUIPMENT DATA

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 263
DATE OF TEST	85-02-20
TEST No.	2
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa

GAUGE NUMBER	2221	3279	3650	7936		
GAUGE DEPTH	1703.35	1709.30	1710.55	1735.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		19 318	18 774	19 538		
FIRST FLOW	INITIAL 589	*	611	939		
	FINAL 640	*	649	1 022		
FIRST CLOSED IN	634	13 857	13 404	14 085		
SECOND FLOW	INITIAL 634	774	650	984		
	FINAL 794	832	791	1 098		
SECOND CLOSED IN	797	13 496	13 070	13 682		
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		18 970	18 531	19 144		

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW	5	60		TESTER VALVE OPENED	13:55
CLOSED IN	60	90		PACKER UNSEATED	17:30

LIQUID RECOVERY DATA		
MEYRES	DESCRIPTION OF LIQUID	
60	Inhibitor cut mud.	
60	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Keg River	TEMP. REC. No.	1E98
		DEPTH	1711.80
		MAX. TEMP.	44
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1	MUD DENSITY	1110
		MUD VISC	77
ALL DEPTHS MEASURED FROM	☒ KB ☐ GROUND	CASING OR HOLESIZE	222
PACKER DEPTHS	TOP 1724	BOTTOM 1734	RATHOLE SIZE
DEPTH OF TESTER VALVE	1704.60	OD mm	114.3
		kg/m	24.7
CASING PERFORATED INTERVAL	N/A	ID mm	71
		LENGTH m	85.85
TOTAL DEPTH	1846	SURFACE CHOKE	25.4
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05

SAMPLE DATA	
OIL GRAVITY	@ °C
GAS/OIL RATIO	
REFRACTOMETER / RELATIVE DENSITY	
RECOVERY WATER	@ °C
CHLORIDE CONTENT	33 650 mg/L

SAMPLE SHIPPED TO LABORATORY	YES	NO
SAMPLER No.	☐	☒
GAS SAMPLE BOTTLE No.	☐	☒
LABORATORY	Recovery samples to C and G (Grande Prairie)	

REMARKS

Charts indicate plugging perforations for the first 35 minutes of the

Final Flow:

Gauge #3650 out of calibration, questionable data.

* Not readable.

CANADA OIL AND GAS LANDS MINISTER OF PETROLEUM ADMINISTRATION DU PÉTROLE ET DU GAZ DES TERRES D'UN CANADA
JUN 17 1985
ENGINEERING AND CONTROL BRANCH TECHNIQUE ET DU CONTRÔLE

COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	
PROVINCE OR TERRITORY	N.W.T.
FIELD OR AREA	SILT LAKE SOUTH
WELL NAME AND NUMBER	LAKE SOUTH G-21
TEST NUMBER	2
TESTED INTERVAL	1724 - 1734

CHOKE	SURFACE	GAS	LIQUID	REMARKS
SIZE	PRESSURE	RATE	RATE	
(mm)	(kPa)	(m ³ /day)	(m ³ /day)	
00:00-24:00				
HRS.)				

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-20

TICKET # 59263

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* Gauge Number      :      7936.      *
* Gauge Depth       :      1736.      m  *
* Time of Flow      :           5.0 min. *
* Final Pressure    :      1022.0 kPa. *
-----
  
```

Initial Hydrostatic Pressure = 19537.8 kPa

Final Hydrostatic Pressure = 19144.1 kPa

GAUGE 1, FLOW 1

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	938.7
2.	0.0106	2.5	1015.6
3.	0.0216	5.0	1022.0

HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 1

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0059	2.0	0.5377	7403.2
2.	0.0115	4.0	0.3534	10311.3
3.	0.0174	6.0	0.2626	12136.6
4.	0.0230	8.0	0.2117	13179.6
5.	0.0289	10.0	0.1761	13527.6
6.	0.0347	12.0	0.1512	13704.8
7.	0.0433	15.0	0.1251	13822.6
8.	0.0579	20.0	0.0968	13917.0
9.	0.0723	25.0	0.0791	13957.4
10.	0.0868	30.0	0.0669	13988.9
11.	0.1011	35.0	0.0580	14011.4
12.	0.1156	40.0	0.0512	14022.1
13.	0.1300	45.0	0.0458	14056.3
14.	0.1444	50.0	0.0414	14077.9
15.	0.1589	55.0	0.0378	14076.1
16.	0.1734	60.0	0.0348	14085.1

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-20

TICKET # 59263

* Gauge Number : 7936. *
* Gauge Depth : 1736. m *
* Time of Flow : 60.0 min. *
* Final Pressure : 1098.1 kPa. *

GAUGE 1, FLOW 2

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	983.6
2.	0.0177	5.0	1071.5
3.	0.0350	10.0	1292.2
4.	0.0525	15.0	1654.3
5.	0.0701	20.0	1551.4
6.	0.0877	25.0	1684.2
7.	0.1054	30.0	1826.1
8.	0.1230	35.0	1208.0
9.	0.1403	40.0	1107.2
10.	0.1581	45.0	1084.3
11.	0.1754	50.0	1088.9
12.	0.1931	55.0	1095.3
13.	0.2106	60.0	1098.1

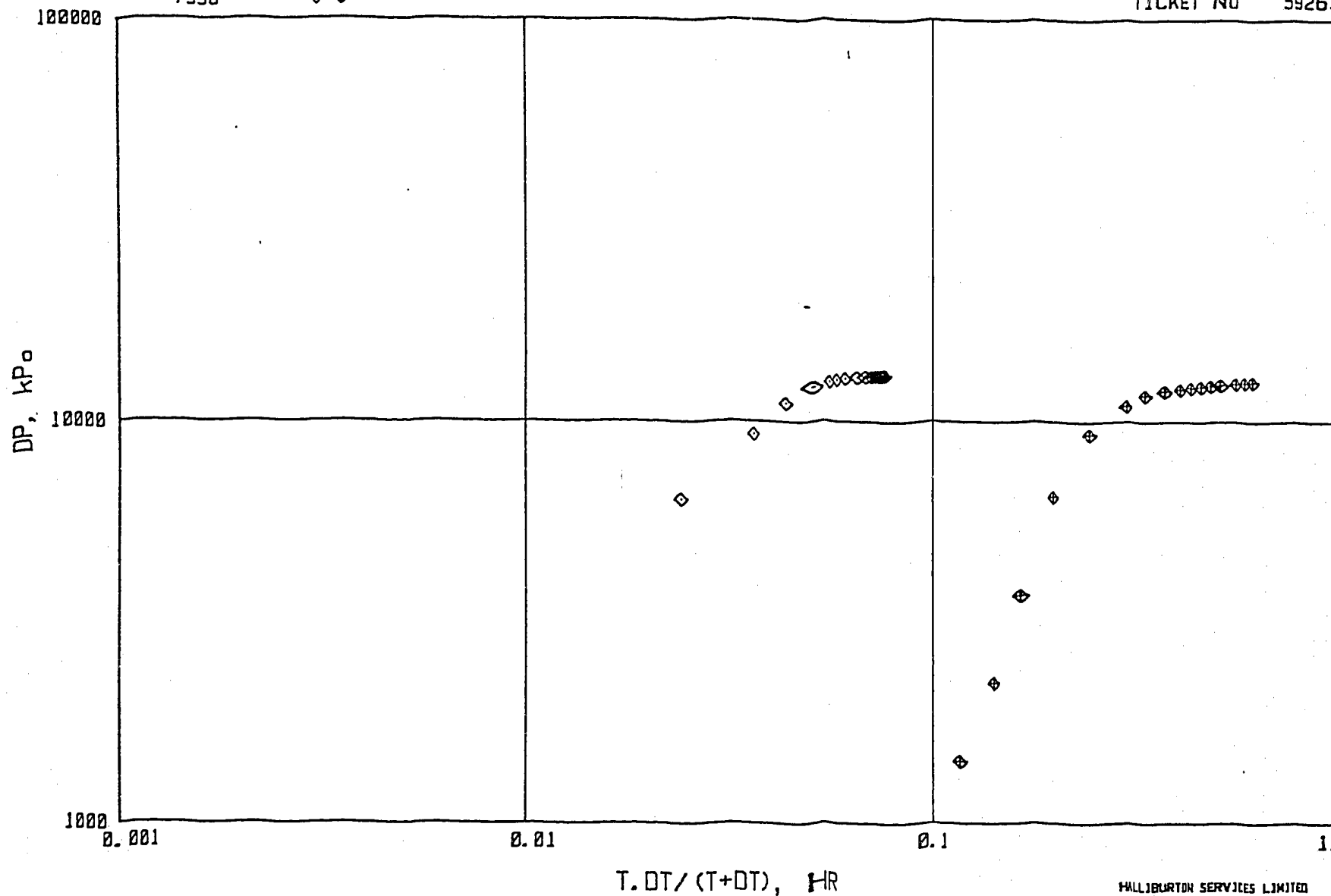
HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 2

Time Deflection (in)	Time (minutes)	$\frac{T+dt}{dt}$ Log ----	Pressure (kPa)
1. 0- 0065	2.0	1.5308	1275.7
2. 0- 0131	4.0	1.2392	1565.1
3. 0- 0199	6.0	1.0704	1978.1
4. 0- 0265	8.0	0.9581	2518.5
5. 0- 0330	10.0	0.8744	3337.2
6. 0- 0396	12.0	0.8067	4787.2
7. 0- 0494	15.0	0.7271	7580.2
8. 0- 0660	20.0	0.6278	10420.3
9. 0- 0824	25.0	0.5562	12019.4
10. 0- 0988	30.0	0.5007	12727.2
11. 0- 1153	35.0	0.4559	13005.2
12. 0- 1319	40.0	0.4189	13134.2
13. 0- 1481	45.0	0.3884	13245.1
14. 0- 1646	50.0	0.3619	13318.7
15. 0- 1811	55.0	0.3389	13382.3
16. 0- 1976	60.0	0.3188	13436.8
17. 0- 2305	70.0	0.2853	13529.4
18. 0- 2636	80.0	0.2582	13620.3
19. 0- 2965	90.0	0.2361	13682.1

GAUGE NO CIP 1 2
7936 ♦ ♦

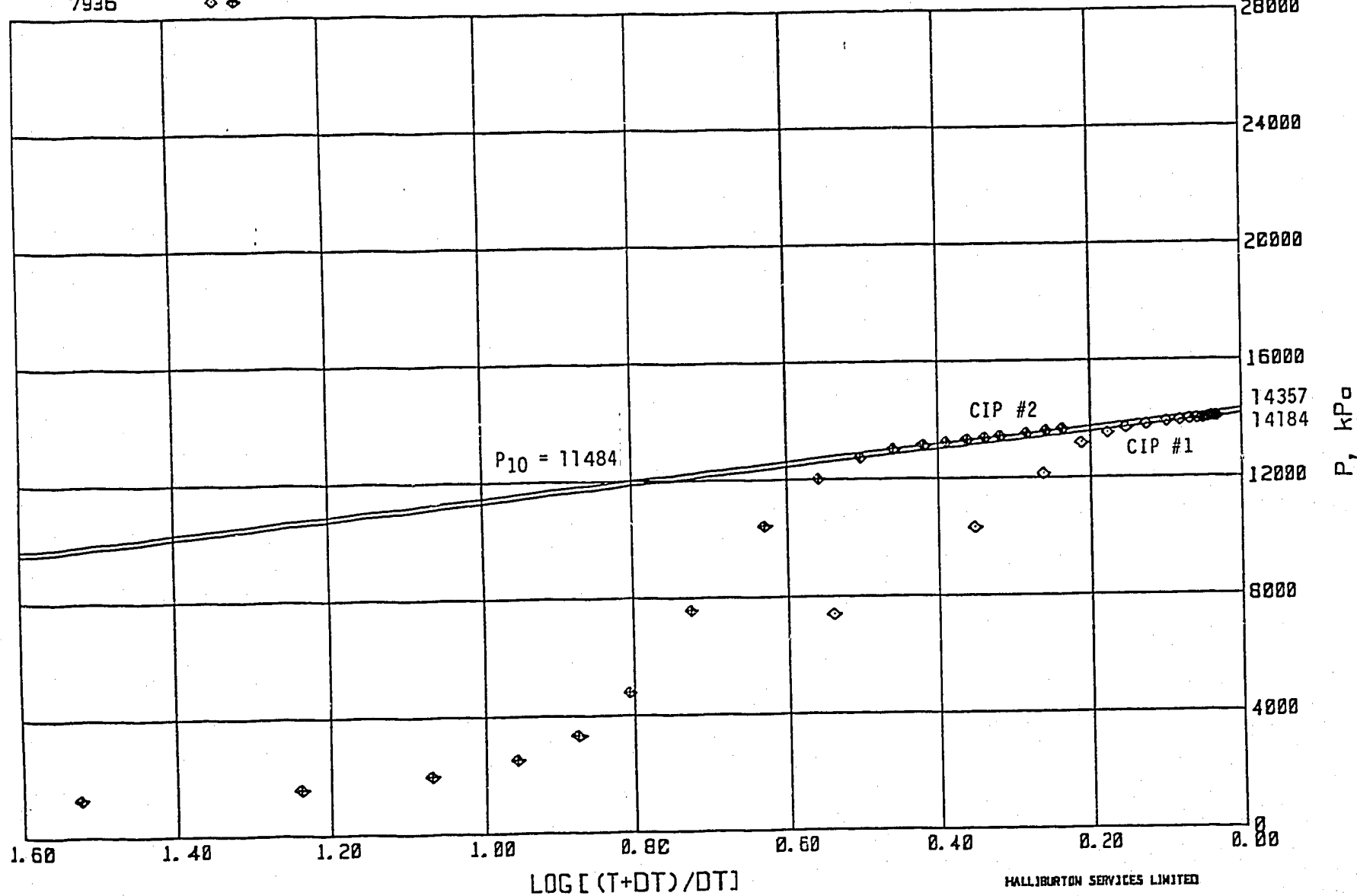
TICKET NO 59263



HALLIBURTON SERVICES LIMITED

GAUGE NO CIP 1 2
7936

TICKET NO 59263



		O.D. (mm)	I.D. (mm)	LENGTH(m)	DEPTH(m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	71.0	28.57	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1703.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1704.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1709.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1710.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1724.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	7.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1734.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1735.76

EQUIPMENT DATA

TESTERS	G. Taylor
WITNESS	J. Speers
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 261
DATE OF TEST	85-02-10
TEST No.	1
JOB TYPE	Dual Bottom Hole

PRESSURE SUMMARY kPa						
GAUGE NUMBER	2221	3281	3282	7936		
GAUGE DEPTH	1487.55	1492.83	1494.08	1514.75		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 052	16 024	16 182		
FIRST FLOW	INITIAL	1 035	2 191	2 245	4 679	
	FINAL	2 084	2 513	2 422	3 097	
FIRST CLOSED IN		2 289	12 131	12 035	12 079	
SECOND FLOW	INITIAL	2 342	2 369	2 374	3 984	
	FINAL	4 280	4 392	4 307	4 379	
SECOND CLOSED IN		3 465	12 198	12 133	12 126	
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		16 104	16 048	16 147		

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW	5	90			06:16
CLOSED IN	60	180		PACKER UNSEATED	11:51

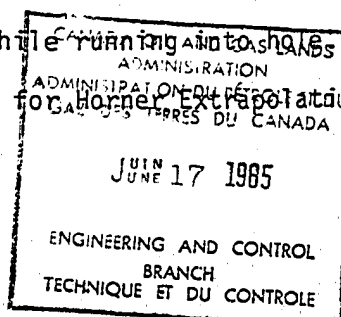
LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
180	Gasified mud.	
180	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE98
NET PRODUCTIVE THICKNESS	m	DEPTH	1495.33 m
K B ELEVATION	625.14 m	MAX. TEMP.	42 °C
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	MUD TYPE	Gel Chemical
PACKER DEPTHS	TOP 1502 BOTTOM m	MUD DENSITY	1080 kg/m³
DEPTH OF TESTER VALVE	1490.29 m	MUD VISC	60 s/L
CASING PERFORATED INTERVAL	N/A m	CASING OR HOLE SIZE	222 mm
TOTAL DEPTH	1516 m	RATHOLE SIZE	mm
AMOUNT AND TYPE CUSHION	Nil	DRILL PIPE	114.3 mm
		DRILL COLLARS ABOVE TESTER VALVE	71 mm
		DRILL PIPE	24.7 mm
		DRILL COLLARS ABOVE TESTER VALVE	71 mm
		DRILL PIPE	25.4 mm
		DRILL COLLARS ABOVE TESTER VALVE	71 mm
		DRILL PIPE	19.05 mm
		DRILL COLLARS ABOVE TESTER VALVE	71 mm

SAMPLE DATA		SAMPLE SHIPPED TO LABORATORY	
OIL GRAVITY	@ °C	YES	NO
GAS / OIL RATIO		☒	☐
REFRACTOMETER / RELATIVE DENSITY		☒	☐
RECOVERY WATER	@ °C	LABORATORY C and G (Grande Prairie)	
CHLORIDE CONTENT	38 490 mg/L		

REMARKS

Fluid recorder chart indicates leaky drill pipe while running into hole.
Initial Closed In Period has insufficient closure for Horner extrapolation.



COMPANY	HOME OIL COMPANY LIMITED
LEGAL DESCRIPTION	
PROVINCE OR TERRITORY	N.M.T.
FIELD OR AREA	SILT LAKE SOUTH
WELL NAME AND NUMBER	HOME SILT LAKE SOUTH
TEST NUMBER	1
TESTED INTERVAL	1502 - 1516

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-10

TICKET # 59261

```

-----
* Gauge Number      :    7936.      *
* Gauge Depth       :    1515.      m  *
* Time of Flow      :             5.0 min. *
* Final Pressure    :    3096.6 kPa. *
-----
  
```

Initial Hydrostatic Pressure = 16182.2 kPa

Final Hydrostatic Pressure = 16147.1 kPa

GAUGE 1, FLOW 1

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	4679.0
2.	0.0116	2.5	3115.8
3.	0.0232	5.0	3096.6

HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 1

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0064	2.0	0.5505	4388.4
2.	0.0132	4.0	0.3497	5578.2
3.	0.0197	6.0	0.2622	6296.6
4.	0.0261	8.0	0.2111	6999.4
5.	0.0328	10.0	0.1755	7571.1
6.	0.0393	12.0	0.1509	8124.6
7.	0.0491	15.0	0.1247	8809.6
8.	0.0654	20.0	0.0968	9762.4
9.	0.0817	25.0	0.0792	10480.3
10.	0.0979	30.0	0.0670	11047.5
11.	0.1142	35.0	0.0581	11438.3
12.	0.1308	40.0	0.0511	11711.0
13.	0.1468	44.9	0.0458	11882.8
14.	0.1469	45.0	0.0458	11882.8
15.	0.1633	50.0	0.0414	11988.2
16.	0.1797	55.0	0.0378	12051.8
17.	0.1960	60.0	0.0346	12079.1

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-10

TICKET # 59261

```

-----
* Gauge Number      :    7936.      *
* Gauge Depth       :    1515.    m   *
* Time of Flow      :           90.0 min. *
* Final Pressure    :    4379.3 kPa. *
-----
  
```

GAUGE 1, FLOW 2

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	3984.2
2.	0.0330	10.0	2592.7
3.	0.0658	20.0	2715.5
4.	0.0986	30.0	2848.3
5.	0.1314	40.0	2976.6
6.	0.1644	50.0	3206.5
7.	0.1973	60.0	3523.8
8.	0.2301	70.0	3798.0
9.	0.2629	80.0	4097.8
10.	0.2959	90.0	4379.3

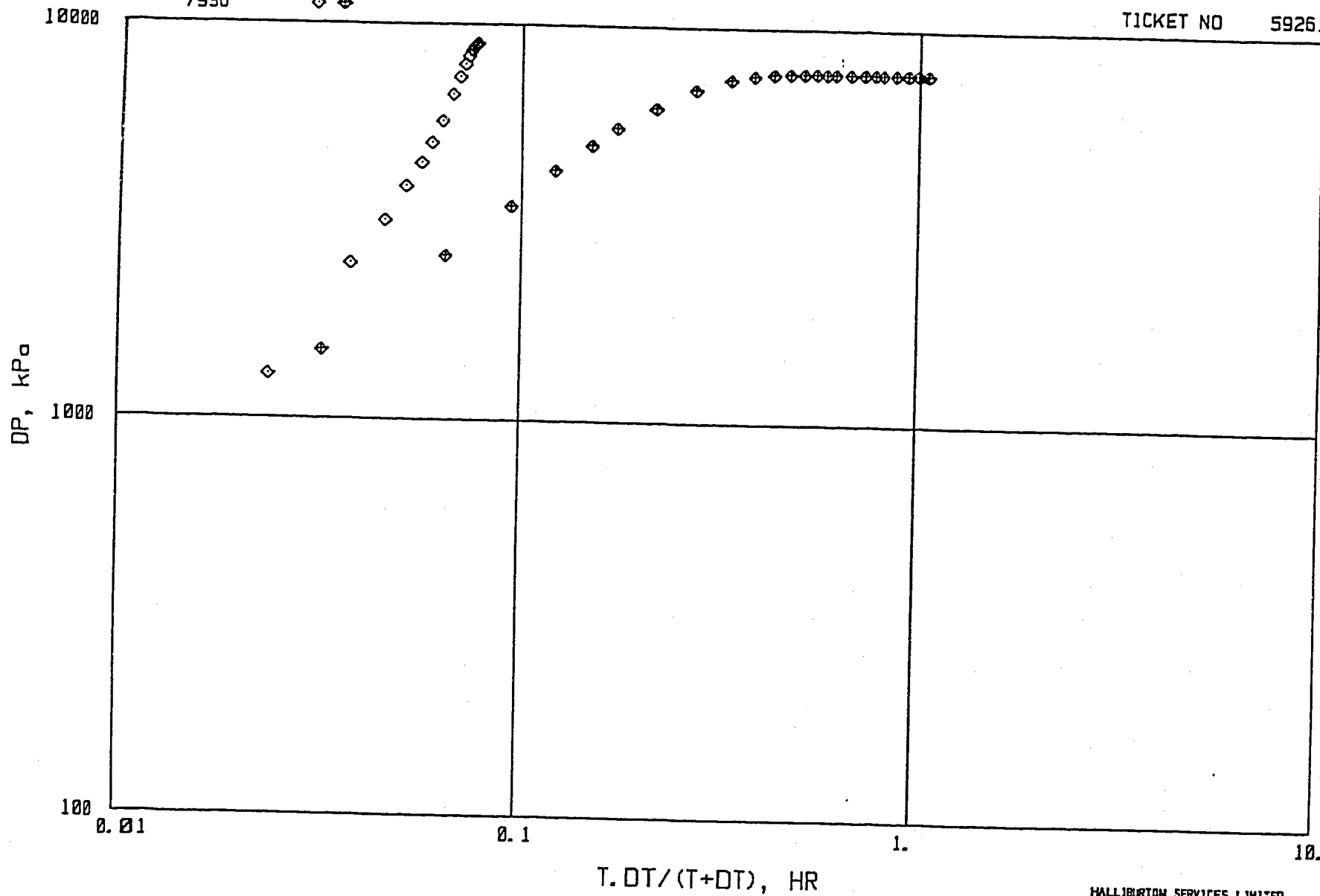
HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 2

Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1. 0.0067	2.0	1.6917	5873.3
2. 0.0136	4.0	1.3932	6986.7
3. 0.0205	6.0	1.2238	7870.5
4. 0.0271	8.0	1.1109	8693.0
5. 0.0341	10.0	1.0197	9382.2
6. 0.0406	12.0	0.9518	9923.0
7. 0.0510	15.0	0.8650	10611.2
8. 0.0679	20.0	0.7599	11365.6
9. 0.0851	25.0	0.6806	11798.3
10. 0.1019	30.0	0.6198	11980.0
11. 0.1189	35.0	0.5699	12067.3
12. 0.1369	40.0	0.5280	12097.3
13. 0.1529	45.0	0.4929	12106.4
14. 0.1699	50.0	0.4623	12110.9
15. 0.1869	55.0	0.4357	12112.7
16. 0.2040	60.0	0.4120	12115.5
17. 0.2379	70.0	0.3723	12120.0
18. 0.2719	80.0	0.3398	12120.0
19. 0.3056	90.0	0.3130	12124.6
20. 0.3396	100.0	0.2901	12124.6
21. 0.4075	120.0	0.2533	12125.5
22. 0.4755	140.0	0.2250	12125.5
23. 0.5435	160.0	0.2024	12125.5
24. 0.6115	180.0	0.1841	12125.5

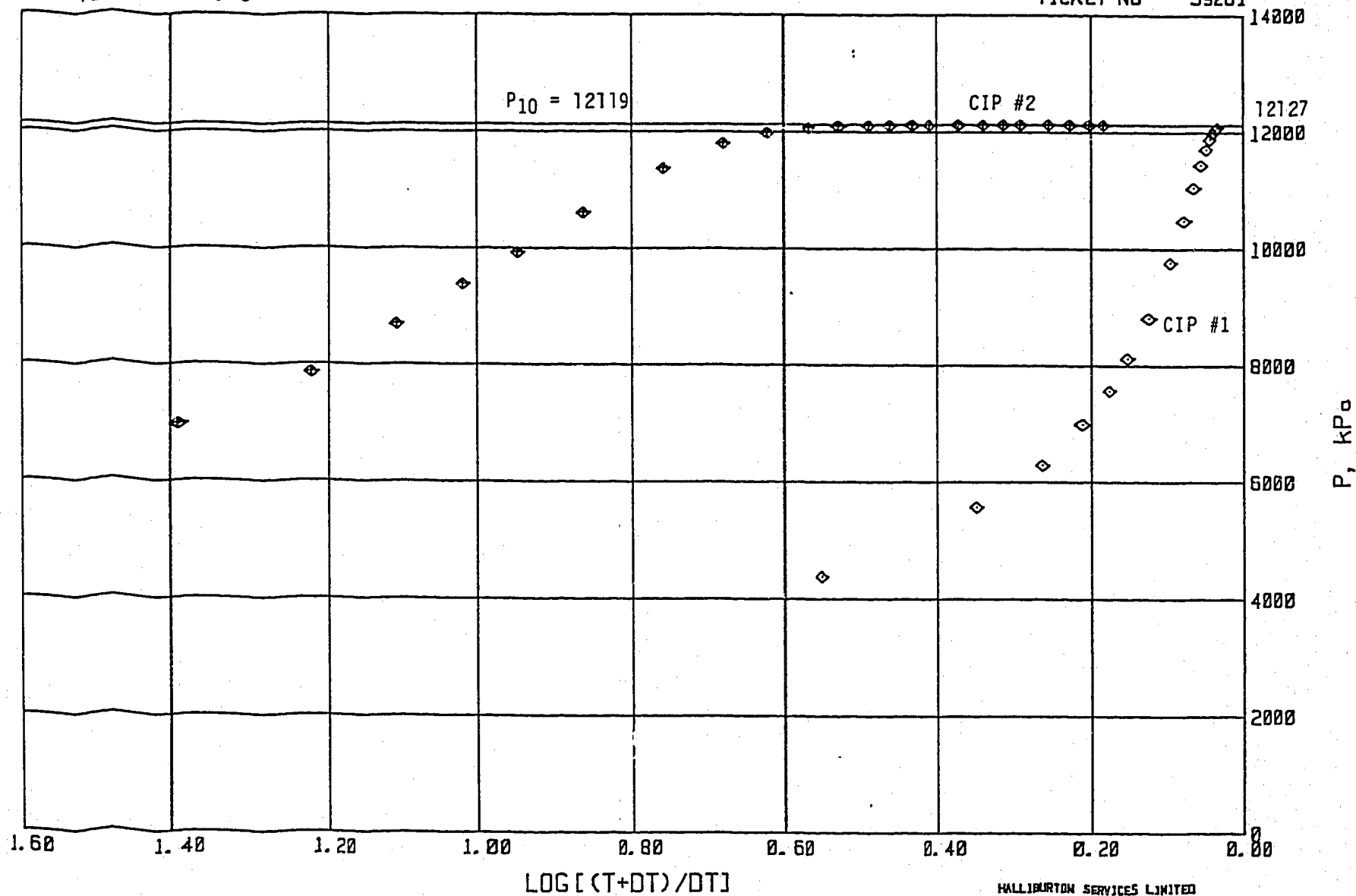
GAUGE NO CIP 1 2
7936

TICKET NO 59261



GAUGE NO CIP 1 2
7936

TICKET NO 59261



HALLIBURTON SERVICES LIMITED

		O. D. (mm)	I. D. (mm)	LENGTH (m)	DEPTH (m)
3		DRILL COLLARS.....	171.0	71.0	67.66
50		IMPACT REVERSING SUB.....	171.5	76.2	0.31
3		DRILL COLLARS.....	171.0	71.0	9.45
5		CROSSOVER.....	171.5	76.2	0.31
80		AP RUNNING CASE.....	127.0	57.2	1.25
					1487.55
12		DUAL CIP VALVE.....	127.0	22.1	1.49
60		HYDROSPRING TESTER.....	127.0	19.1	2.54
					1490.29
80		AP RUNNING CASE.....	127.0	57.2	1.25
					1492.83
80		AP RUNNING CASE.....	127.0	57.2	1.25
					1494.08
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25
15		JAR.....	127.0	44.5	1.52
16		VR SAFETY JOINT.....	127.0	25.4	0.85
70		OPEN HOLE PACKER.....	196.9	38.9	1.83
70		OPEN HOLE PACKER.....	196.9	38.9	1.83
					1502.00
21		PERFORATED TAIL PIPE.....	127.0	60.2	1.98
5		CROSSOVER.....	171.5	76.2	0.31
3		DRILL COLLARS.....	171.0	71.0	9.54
5		CROSSOVER.....	171.5	76.2	0.31
81		BLANKED-OFF RUNNING CASE.....	127.0	57.2	1.25
					1514.75

EQUIPMENT DATA

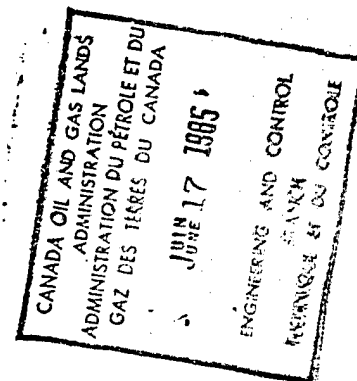
CORE ANALYSIS REPORT

HOME OIL COMPANY LIMITED

HOME SILT LAKE SOUTH G-21

C85-7168

1985-02-22



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

RESERVOIR STUDIES DIVISION

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

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CHEMICAL & GEOLOGICAL LABORATORIES LTD.

GENERAL INFORMATION

COMPANY: HOME OIL COMPANY LIMITED
WELL: HOME SILT LAKE
LOCATION: SOUTH G-21
FIELD: SILT LAKE
FORMATION: SLAVE POINT
ELEVATION: KB: 625.14 M GRD: 620.60 M
CORING FLUID: CHEMICAL GEL
CORING EQUIPMENT: DIAMOND
CORE DIAMETER: 0.089 M
NO. OF CORES: 2
TOTAL CORED: 26.00 M
TOTAL RECOVERED: 26.00 M
PERCENT RECOVERED: 100.00 %
TOTAL TESTED: 2.70 M
PERCENT TESTED: 10.38 %

LAB NO: C85-7168
PAGE : 1
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CORE HANDLING AND ANALYSIS METHODS

Core transported in boxes.
Water was used to drill and cut the samples.
Permeability measured on 0.025 M drilled plugs.
Permeability measured on 0.089 M full diameter samples.
Full diameter samples sandblasted before KH measurements.
Toluene was used as solvent for cleaning the cores.
Samples were cleaned in vapour phase extractor.
Cleaning time 216 hours.
Samples were dried in conventional oven at 120C.
Drying time 14 hours.
Pore volume measured by Boyles Law in a Hassler type core holder using helium.
Grain volume measured by Boyles Law in a matrix cup using helium.
Bulk volume measured by caliperings for regular cylindrical samples.
Bulk volume determined by adding pore volume and grain volume for small plug samples.
Fluid saturation by Retort.

REMARKS:

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21
FORMATION: SLAVE POINT

LAB NO: C85-7168
PAGE : 2
DATE : 1985-02-22

GEOLOGICAL DESCRIPTION

INTERVAL (metres)

	Core #1	1490.00 - 1507.00 M	Slave Point	(17.00 M)	Rec.: 17.00 M
1490.00-1498.00 M (8.00 M)		Shale, light grey-green, massive grading to fissile-poker chip at base, calcareous and non-waxy. Scattered calcareous brachiopod shells, scattered pyrite as disseminated grains and nodules. Gradational contact at base.			
1498.00-1500.30 M (2.30 M)		Limestone, medium brown, cryptocrystalline, slightly argillaceous with poor intercrystalline porosity. Scattered paper-thin shale laminations, probably algal, abundant unidentifiable corals, scattered calcareous brachiopods. Interval is massive. Gradational contact at base.			
1500.30-1503.70 M (3.40 M)		Limestone, dark grey, cryptocrystalline, slightly argillaceous with poor intercrystalline porosity. Abundant paper-thin shale laminations, probably algal, abundant corals-Thamnopora and unidentifiable. Interval is massive with gradational contact at base.			
1503.70-1507.00 M (3.30 M)		Limestone, dark grey, cryptocrystalline, slightly argillaceous with poor intercrystalline porosity. Scattered paper-thin shale laminations, scattered unidentifiable fossils. Abundant sub-vertical fractures, lined or healed with calcite crystals.			
	Core #2	1507.00 - 1516.00 M	Slave Point	(9.00 M)	Rec.: 9.00 M
1507.00-1507.80 M (0.80 M)		Limestone, dark grey, cryptocrystalline, slightly argillaceous with poor intercrystalline porosity. Scattered paper-thin shale laminations, scattered unidentifiable fossils. Abundant sub-vertical fractures, lined or healed with calcite crystals. Interval is broken due to fractures, gradational contact at base.			
1507.80-1516.00 M (8.20 M)		Limestone, medium brown-grey, cryptocrystalline, slightly argillaceous with poor intercrystalline porosity. Scattered paper-thin shale laminations with locally abundant calcareous shell fragments, probably brachiopods. Shale laminations are black, calcareous and waxy. Interval is massive.			

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21
FORMATION: SLAVE POINT

LAB NO: C85-7168
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SUMMARY OF CORE DATA REPORT

SUMMARY INTERVAL: 1490.00 - 1516.00 (26.00)

Thickness Not Analyzed: Rubble 0.00 Dense 8.00 Lost 0.00 Drilled 0.00 Not Tested 15.30 Total: 23.30

PERMEABILITY RANGES, MILLIDARCY

	TOTAL ALL SAMPLES	100.0 & Greater	10.-99.	1.0-9.9	.50-.99	.10-.49	.01-.09	Less Than .01
Thickness, Metres	2.700	0.000	0.000	0.350	0.000	1.400	0.950	0.000
Fraction of Analyzed Core	1.000	0.000	0.000	0.130	0.000	0.519	0.352	0.000
Porosity Thickness (Por-M)	0.031	0.000	0.000	0.004	0.000	0.022	0.004	0.000
Permeability Thickness (Md-M)	1.285	0.000	0.000	0.915	0.000	0.314	0.055	0.000
Wt. Avg. (Arith) Porosity	0.012	0.000	0.000	0.016	0.000	0.016	0.004	0.000
Wt. Avg. (Arith) KMAX, Md	0.476	0.000	0.000	2.614	0.000	0.224	0.058	0.000
Wt. Avg. Resid. Oil	0.032	0.000	0.000	0.000	0.000	0.046	0.000	0.000
Wt. Avg. Resid. Water	0.034	0.000	0.000	0.000	0.000	0.048	0.000	0.000

Wt. Avg. (Geom.) KMAX., Md for All Samples = 0.171
Wt. Avg. (Harm.) KMAX., Md for All Samples = 0.087

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21
FORMATION: SLAVE POINT
CORED INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
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CORE ANALYSIS DATA REPORT

[illegible]

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HOME SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 CORED INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
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CORE ANALYSIS DATA REPORT

SMPL NO.	INTERVAL		REP THICK M	SAMPLE LENGTH M	GAS PERMEABILITY - Md			PORO- SITY	DENSITY,KG/M3		RESIDUAL SAT. FRAC OF PV		VISUAL EXAMINATION
	TOP M	BASE M			KMAX	K90	KV		BULK	GRAIN	OIL	WATER	
11	1510.80	1511.00	0.20	0.18	0.09	0.07	0.02	0.003	2680	2690	0.000	Trace	LS,HAS,MNR FOS
NA	1511.00	1512.15	1.15										LS,FOS,SLTY ARG
12	1512.15	1512.25	0.10		0.13			0.023	2630	2700	Trace	0.097	SP,LS,FOS
13	1512.25	1512.40	0.15	0.09	0.22	0.05	0.02	0.012	2650	2690	0.241	0.278	LS,FOS,PTSL
14	1512.40	1512.55	0.15	0.10	0.09	0.08	<.01	0.007	2670	2690	0.000	Trace	LS,MNR PTSL
NA	1512.55	1515.75	3.20										LS,MNR FOS,PTSL
15	1515.75	1515.90	0.15	0.10	0.17	0.15	<.01	0.014	2660	2690	0.000	0.000	LS,PTSL,SLTY ARG
16	1515.90	1516.00	0.10	0.07	0.10	0.06	0.01	0.027	2600	2680	0.214	Trace	LS,PTSL

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21
FORMATION: SLAVE POINT
CORED INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
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DATE : 1985-02-22

CALCULATED DATA REPORT

SMPL NO.	INTERVAL, M		REP. THICK.		POROSITY x REP. THICK.		WT. AVG. POROSITY (ARITH.)	KMAX x REP. THICK.		WT. AVG. KMAX (ARITH.)
	TOP	BASE	M	CUML.	POR-M	CUML.		MD-M	CUML.	

CORE NO. 1 1490.00 - 1507.00 RECEIVED IN LAB 17.00 METERS										
DE	1490.00	1498.00	8.00							
NA	1498.00	1499.05	1.05							
1	1499.05	1499.20	0.15	0.15	0.002	0.002	0.011	0.043	0.043	0.290
NA	1499.20	1499.90	0.70							
2	1499.90	1500.10	0.20	0.20	0.003	0.003	0.013	0.660	0.660	3.300
NA	1500.10	1504.70	4.60							
3	1504.70	1504.85	0.15	0.15	0.003	0.003	0.021	0.255	0.255	1.700
NA	1504.85	1505.35	0.50							
4	1505.35	1505.55	0.20	0.20	0.000	0.000	0.001	0.006	0.006	0.030
NA	1505.55	1505.90	0.35							
5	1505.90	1506.10	0.20	0.20	0.000	0.000	0.001	0.014	0.014	0.070
NA	1506.10	1506.30	0.20							
6	1506.30	1506.50	0.20	0.20	0.002	0.002	0.008	0.004	0.004	0.020
NA	1506.50	1506.65	0.15							
7	1506.65	1506.85	0.20	0.20	0.003	0.003	0.014	0.076	0.076	0.380
NA	1506.85	1507.00	0.15							
CORE NO. 2 1507.00 - 1516.00 RECEIVED IN LAB 9.00 METERS										
NA	1507.00	1507.25	0.25							
8	1507.25	1507.45	0.20	0.20	0.006	0.006	0.031	0.060	0.060	0.300
NA	1507.45	1507.65	0.20							
9	1507.65	1507.80	0.15	0.15	0.001	0.001	0.009	0.015	0.015	0.100
NA	1507.80	1510.15	2.35							
10	1510.15	1510.35	0.20	0.20	0.001	0.001	0.005	0.038	0.038	0.190
NA	1510.35	1510.80	0.45							

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HOME SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 CORED INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
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CALCULATED DATA REPORT

SMPL NO.	INTERVAL, M		REP. THICK.		POROSITY x REP. THICK.		WT. AVG. POROSITY (ARITH.)	KMAX x REP. THICK.		WT. AVG. KMAX (ARITH.)
	TOP	BASE	M	CUML.	POR-M	CUML.		MD-M	CUML.	
11	1510.80	1511.00	0.20	0.20	0.001	0.001	0.003	0.018	0.018	0.090
NA	1511.00	1512.15	1.15							
12	1512.15	1512.25	0.10	0.10	0.002	0.002	0.023	0.013	0.013	0.130
13	1512.25	1512.40	0.15	0.25	0.002	0.004	0.016	0.033	0.046	0.184
14	1512.40	1512.55	0.15	0.40	0.001	0.005	0.013	0.013	0.059	0.149
NA	1512.55	1515.75	3.20							
15	1515.75	1515.90	0.15	0.15	0.002	0.002	0.014	0.025	0.025	0.170
16	1515.90	1516.00	0.10	0.25	0.003	0.005	0.019	0.010	0.036	0.142

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HOME SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
 PAGE : 8
 DATE : 1985-02-22

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

GROUPING BY POROSITY RANGES

Porosity Range	Samples		Metres		Wt. Avg.	Wt. Avg. KMAX		Frequency %	
	In Rng	Cum	In Rng	Cum	Porosity	Arith	Geom	In Rng	Cum
0.000 -0.020	12	12	2.15	2.15	0.008	0.440	0.144	79.63	79.63
0.020 -0.040	4	16	0.55	2.70	0.026	0.615	0.339	20.37	100.00

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HOME SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
 PAGE : 9
 DATE : 1985-02-22

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

GROUPING BY PERMEABILITY RANGES

Permeability Range	Samples		Metres		Wt. Avg. KMAX		Wt. Avg.	Frequency %	
	In Rng	Cum	In Rng	Cum	Arith	Geom	Porosity	In Rng	Cum
0.020- 0.040	2	2	0.40	0.40	0.025	0.024	0.005	14.81	14.81
0.040- 0.080	1	3	0.20	0.60	0.070	0.070	0.001	7.41	22.22
0.080- 0.160	5	8	0.70	1.30	0.099	0.098	0.011	25.93	48.15
0.160- 0.320	5	13	0.85	2.15	0.235	0.229	0.015	31.48	79.63
0.320- 0.640	1	14	0.20	2.35	0.380	0.380	0.014	7.41	87.04
1.250- 2.500	1	15	0.15	2.50	1.700	1.700	0.021	5.56	92.59
2.500- 5.000	1	16	0.20	2.70	3.300	3.300	0.013	7.41	100.00

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HONE SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
 PAGE : 10
 DATE : 1985-02-22

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

POROSITY-METRES OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

Porosity Cut Off	Metres		Capacity Lost		Capacity Remaining		Wt. Avg. Arith.	
	Lost	Remaining	Por-M	%	Por-M	%	Mean	Median
0.000	0.00	2.70	0.000	0.00	0.031	100.00	0.012	0.000
0.020	2.15	0.55	0.017	54.15	0.014	45.85	0.026	
0.040	2.70	0.00	0.031	100.00	0.000	0.00	0.000	

Total Storage Capacity in Porosity-Metres = 0.031

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21
FORMATION: SLAVE POINT
INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
PAGE : 11
DATE : 1985-02-22

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

MILLIDARCY-METRES OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

Permeability Cut Off	Metres		Capacity Lost		Capacity Remaining		Wt. Avg. Geom.	
	Lost	Remaining	Md-Metres	%	Md-Metres	%	Mean	Median
0.000	0.00	2.70	0.000	0.00	1.285	100.00	0.171	0.167
0.005	0.00	2.70	0.000	0.00	1.285	100.00	0.171	0.167
0.010	0.00	2.70	0.000	0.00	1.285	100.00	0.171	0.167
0.020	0.00	2.70	0.000	0.00	1.285	100.00	0.171	0.167
0.040	0.40	2.30	0.010	0.78	1.274	99.22	0.240	0.196
0.080	0.60	2.10	0.024	1.87	1.260	98.13	0.270	0.213
0.160	1.30	1.40	0.094	7.28	1.191	92.72	0.447	
0.320	2.15	0.55	0.294	22.85	0.991	77.15	1.255	1.768
0.640	2.35	0.35	0.370	28.77	0.915	71.23	2.483	
1.250	2.35	0.35	0.370	28.77	0.915	71.23	2.483	
2.500	2.50	0.20	0.625	48.62	0.660	51.38	3.300	
5.000	2.70	0.00	1.285	100.00	0.000	0.00	0.000	

Total Flow Capacity in Millidarcy-Metres (Arithmetic) = 1.285

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY : HOME OIL COMPANY LIMITED
 WELL : HOME SILT LAKE SOUTH G-21
 FORMATION: SLAVE POINT
 INTERVAL: 1490.00 - 1516.00

LAB NO: C85-7168
 PAGE : 12
 DATE : 1985-02-22

ARITHMETIC AVERAGE PERMEABILITY WITHIN POROSITY RANGES

POROSITY RANGE	SAMPLES		ARITHMETIC AVERAGE	
	NUMBER	REP. THICK.	POROSITY	PERMEABILITY, Md.
0.000-0.010	7	1.30	0.005	0.08
0.010-0.020	5	0.85	0.013	0.87
0.020-0.030	3	0.35	0.024	0.64
0.030-0.040	1	0.20	0.031	0.30

CHEMICAL & GEOLOGICAL LABS

Co: HOME OIL COMPANY LIMITED
Well: HOME SILT LAKE SOUTH G-21
Formation: SLAVE POINT
Interval: 1490.00 -1516.00

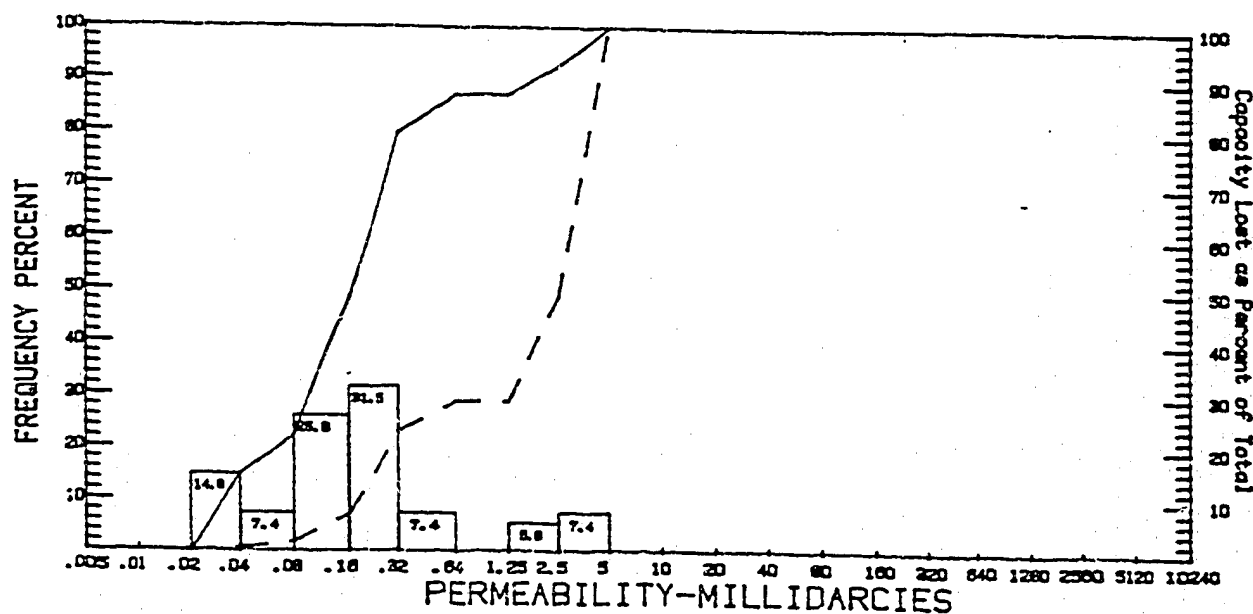
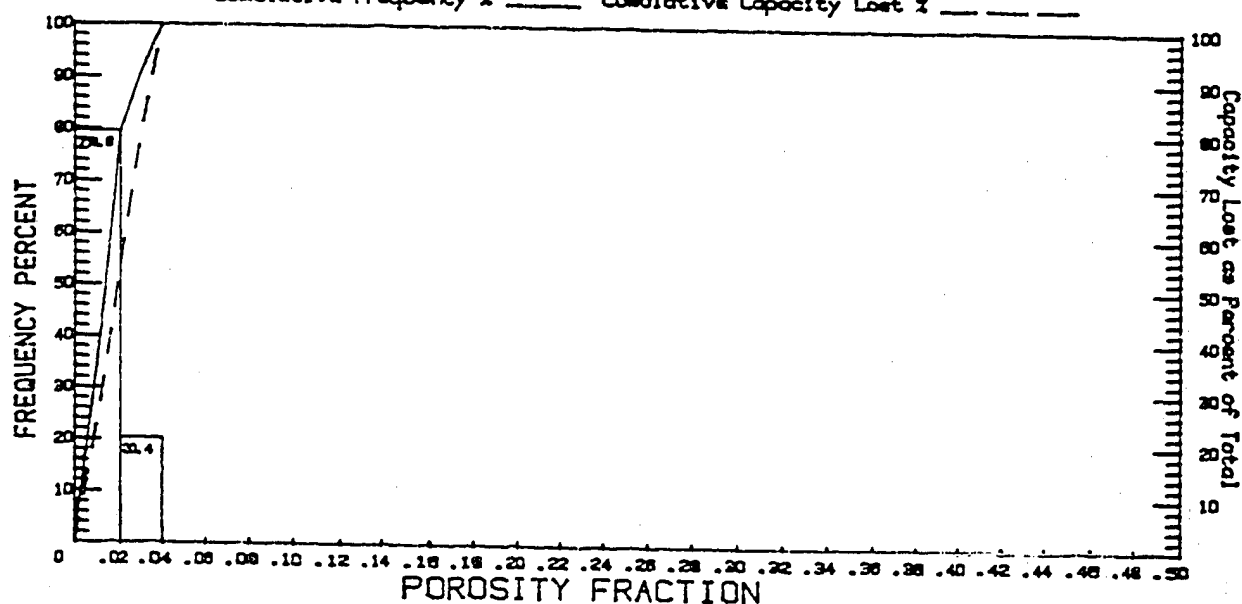
Lab No.: C85-7168
Fig. No.: 1
Date: 1985-02-22

Arithmetic Mean Porosity: 0.012
Median Porosity: 0.013

Geometric Mean KMAX: 0.171
Median KMAX: 0.167

Porosity and Permeability Histograms

Cumulative Frequency % ——— Cumulative Capacity Lost % ———



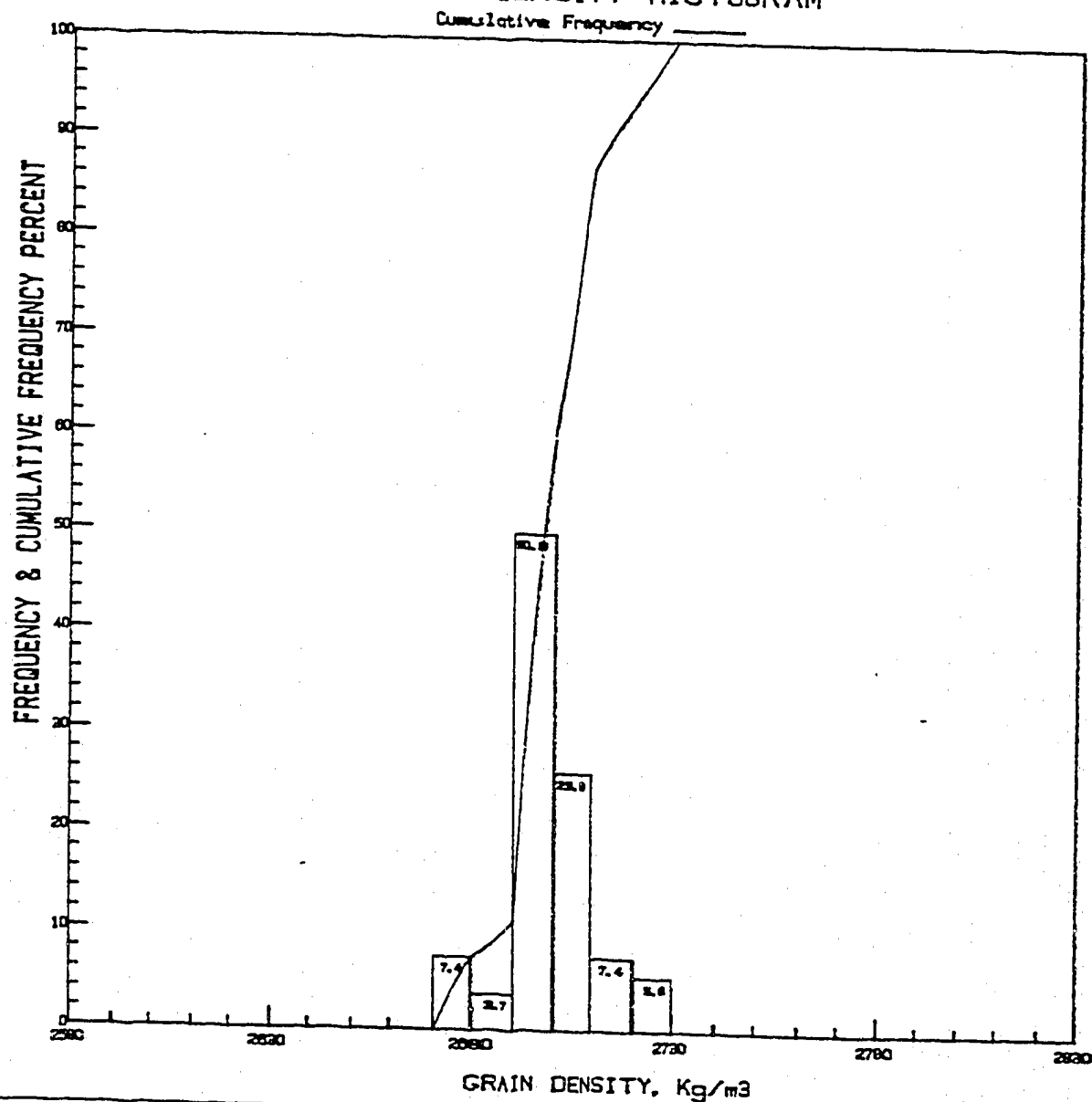
CHEMICAL & GEOLOGICAL LABS

Co: HOME OIL COMPANY LIMITED
Well : HOME SILT LAKE SOUTH G-21
Formation : SLAVE POINT
Interval : 1490.00 - 1516.00

Lab No.: C85-7168
Fig. No.: 2
Date: 1985-02-22

Wt. Avg. Arith. Means: 2694. Grain Density Median: 2688.

GRAIN DENSITY HISTOGRAM

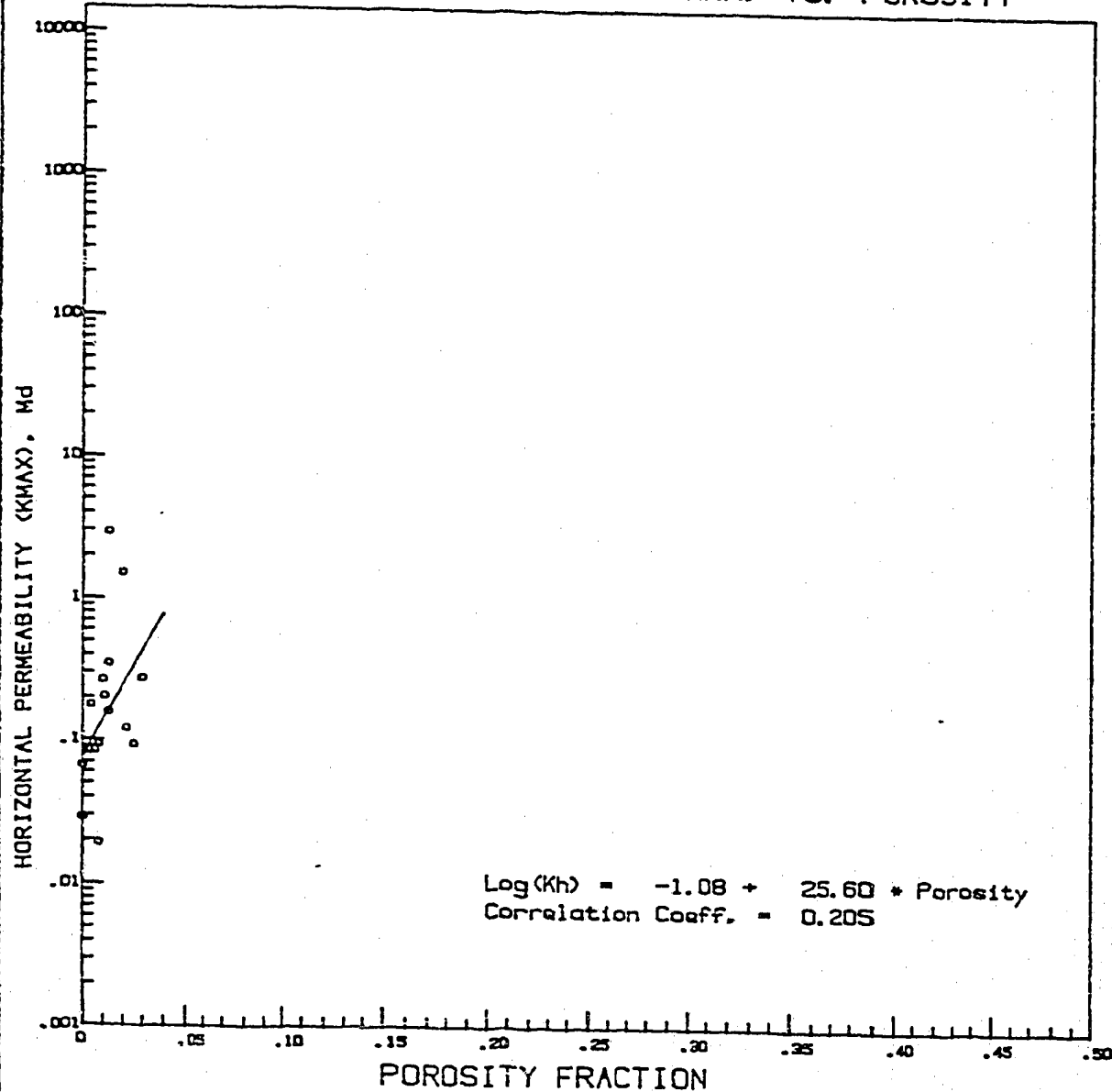


CHEMICAL & GEOLOGICAL LABS

Co: HOME OIL COMPANY LIMITED
Well: HOME SILT LAKE SOUTH G-21
Formation: SLAVE POINT
Interval: 1490.00 - 1516.00

Lab No.: C95-7168
Fig No.: 3
Date: 1985-02-22

HORIZONTAL PERMEABILITY (KMAX) VS. POROSITY

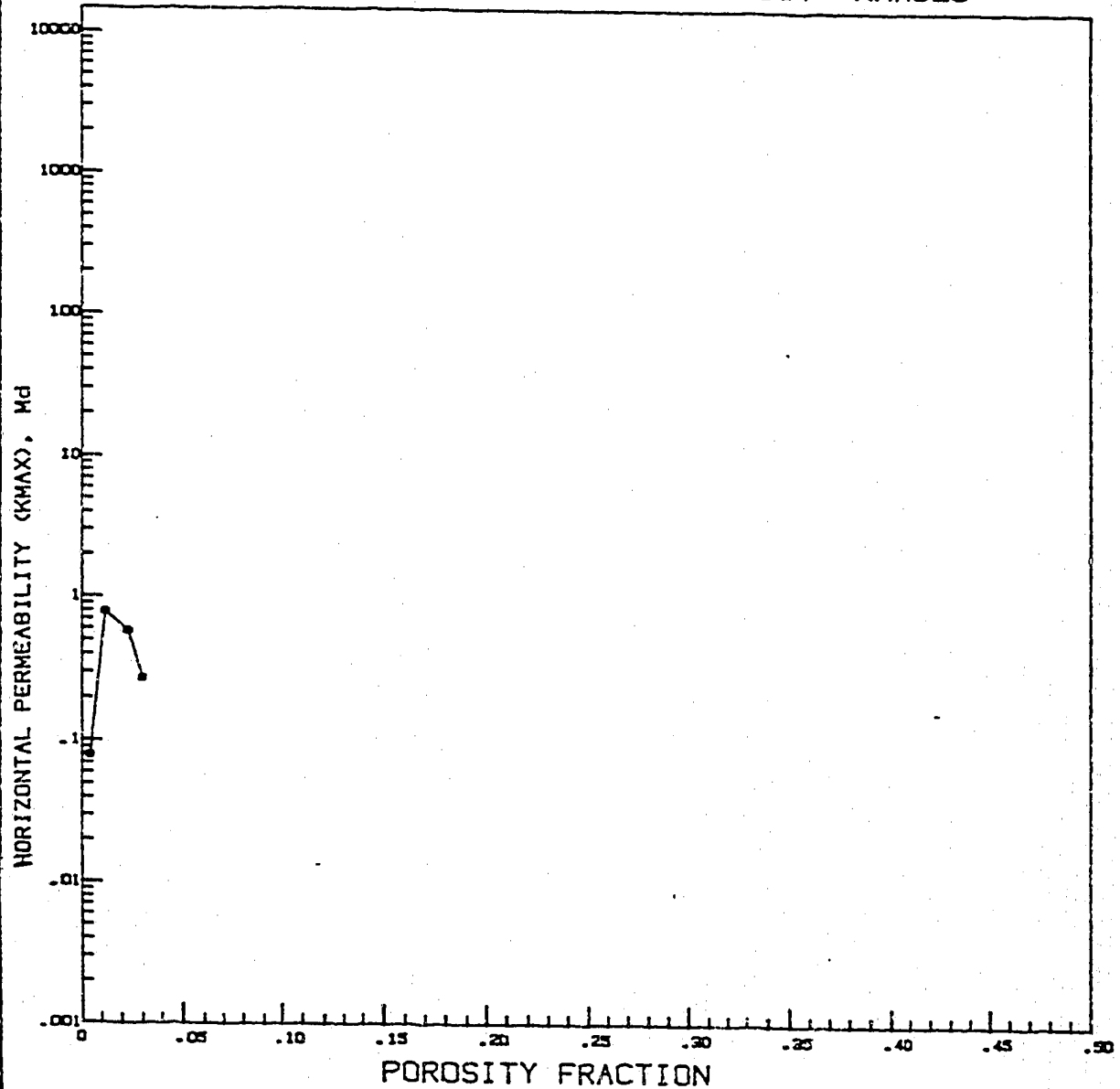


CHEMICAL & GEOLOGICAL LABS

Co: HOME OIL COMPANY LIMITED
Well: HOME SILT LAKE SOUTH G-21
Formation: SLAVE POINT
Interval: 1490.00 - 1516.00

Lab No.: C85-7168
Fig No.: 4
Date: 1985-02-22

ARITHMETIC AVG. KMAX within POROSITY RANGES

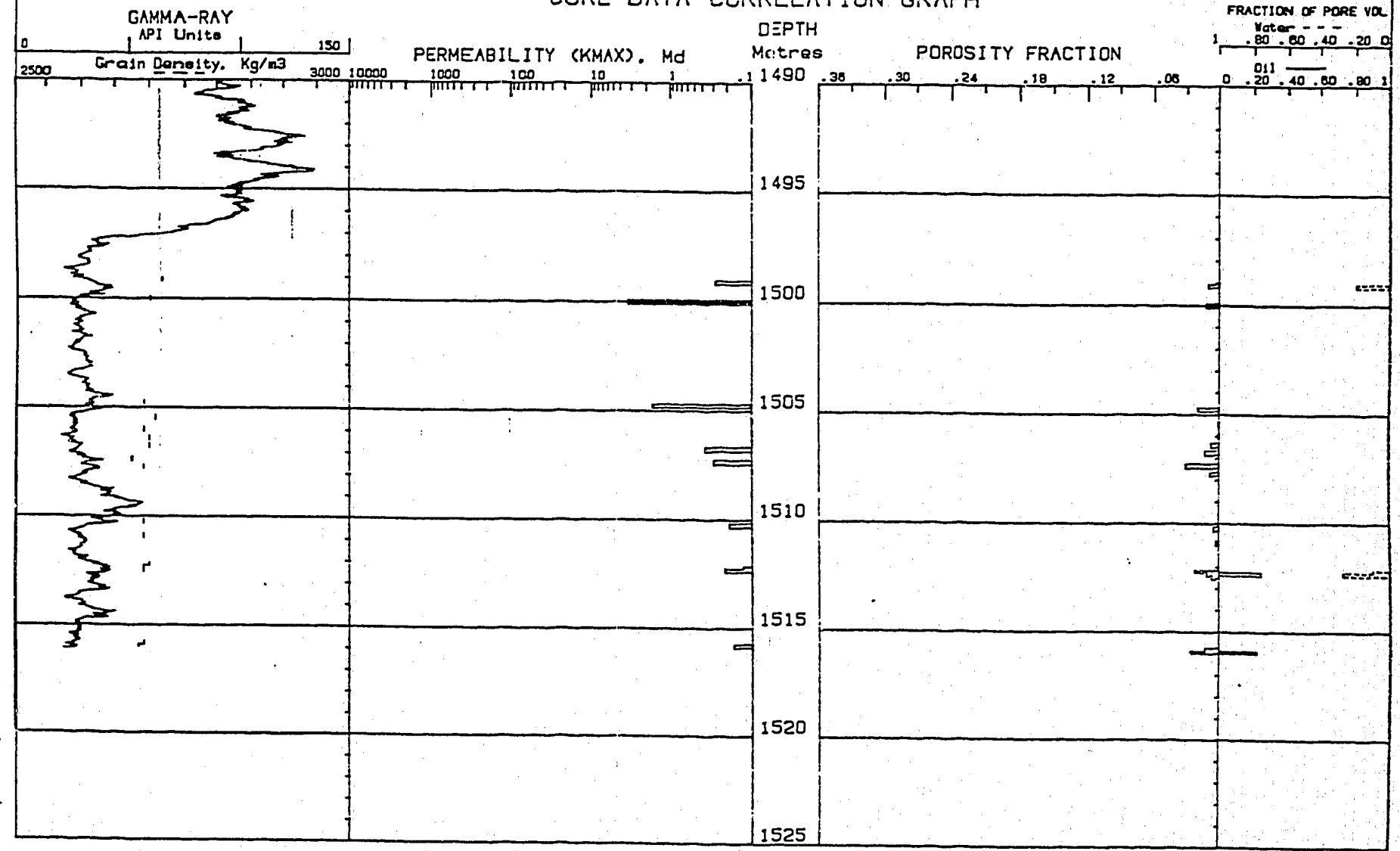


Company : HOME OIL COMPANY LIMITED
Well : HOME SILT LAKE SOUTH G-21
Cored Interval : 1490.00 -1516.00

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Lab No : C85-7168
Fig No : 5
Date : 1985-02-22

CORE DATA CORRELATION GRAPH

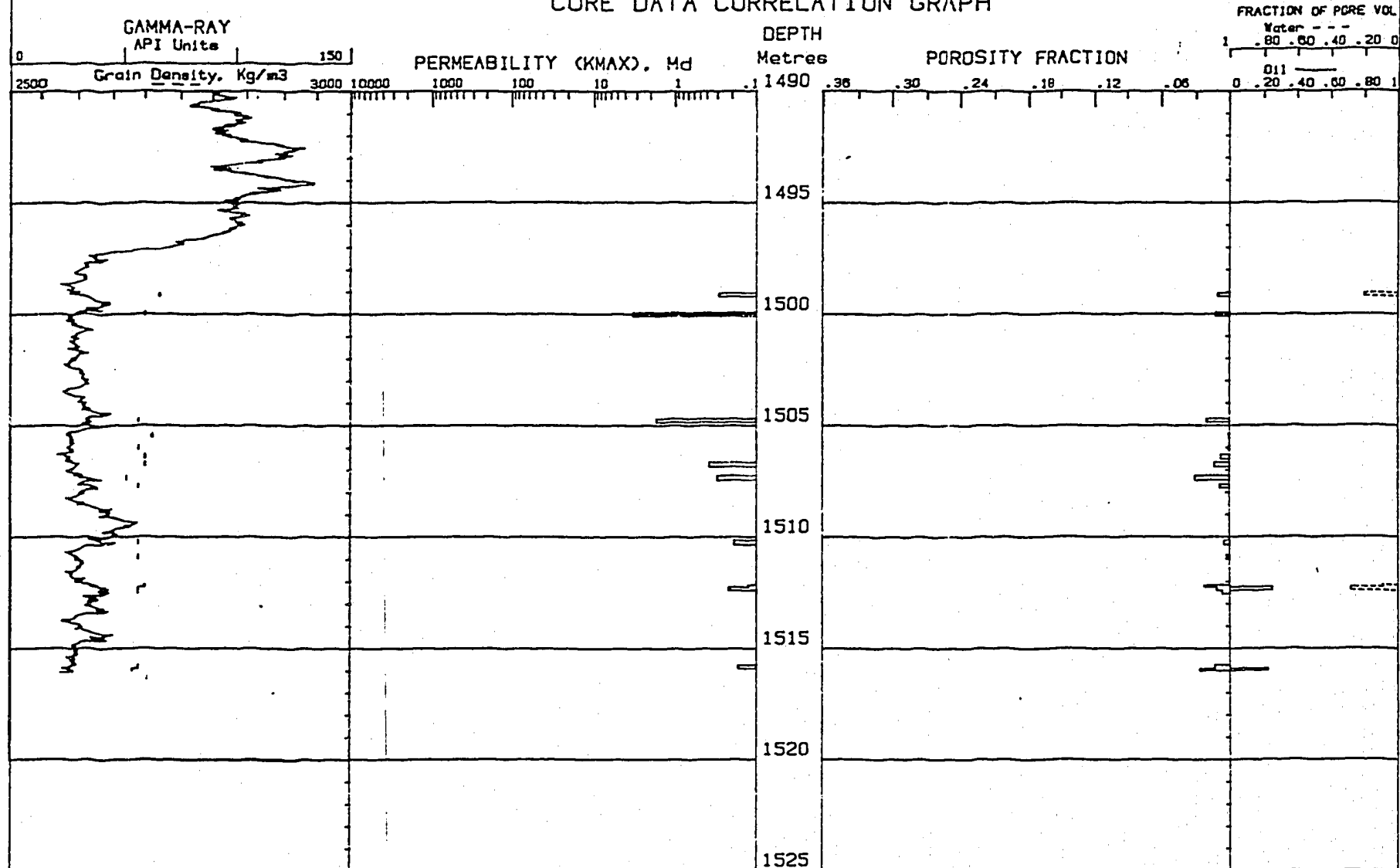


CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Company : HOME OIL COMPANY LIMITED
Well : HOME SILT LAKE SOUTH G-21
Cored Interval : 1490.00 -1516.00

Lab No : C85-7168
Fig No : 5
Date : 1985-02-22

CORE DATA CORRELATION GRAPH



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

COMPANY: HOME OIL COMPANY LIMITED
WELL : HOME SILT LAKE SOUTH G-21

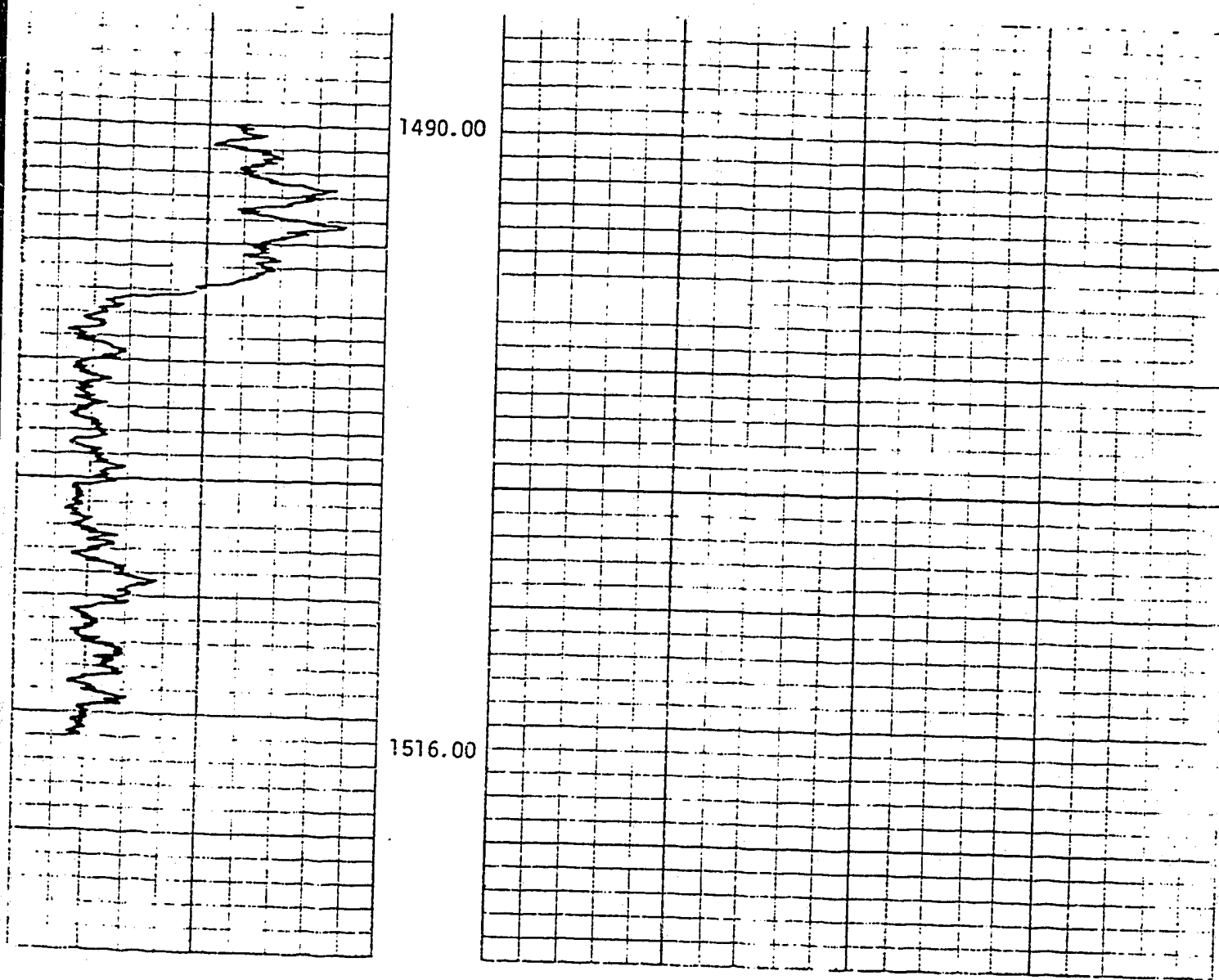
LAB NO: C85-7168
DATE : 1985-02-22
FIG : 6

GAMMA RAY LOG

VERTICAL SCALE 1:240

T.C. 15 SEC.

SENS. 6000 CPM



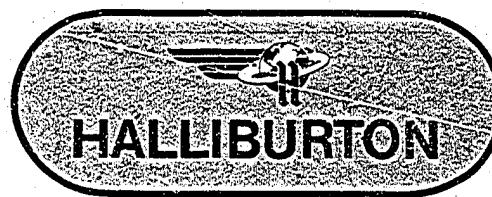
CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

CORE DESCRIPTION SYMBOLS

abnt	Abundant	K	Good	por	Porous (silty)	uncons	Unconsolidated
Amph	Amphipora	glau	Glaucinite (ic)	p-p	Pin Point	unident	Unidentifiable
ang	Angular	gn	Green	pred	Predominant (ly)		
anh	Anhydrite (ic)	gr	Grain (ed)	pt	Part (ly)	v	Very
aren	Arenaceous	gran	Granular	ptsl	Paper-Thin Shale Laminations	vcol	Varicolored
arg	Argillaceous	grdg	Grading	purp	Purple	VF	Vertical Fracture
		grnl	Granule	pyr	Pyrite (ic) (ized)	vrtl	Vertical
hd	Bed	gy	Gray	pyrbic	Pyrobitumen	vug	Vug (gy) (ular)
hdd	Bedded						
bdg	Bedding	hrtl	Horizontal	qtz	Quartz	/	With
bf	Buff	HF	Horizontal Fracture			w	Well
biocl	Bioclastic			ran	Random	wh	White
biot	Biotite	incr	Increase (ing)	rd	Round (ed)	wvy	Wavy
bioturb	Bioturbated	intbd	Interbedded	repl	Replaced (ing) (ment)	wxy	Waxy
blk	Black	intgran	Intergranular	rexl	Recrystallize (ation)		
Brac	Brachiopod	intlam	Interlaminated	RF	Random Fracture	xhd	Cross-bedded
brn	Brown	intxl	Intercrystalline	rr	Rare	xhdg	Cross-bedding
bur	Burrow (ed)	ireg	Irregular			xl	Crystal (line)
				s	Small	xlam	Cross-laminated
c	Coarse (ly)	kao	Kaolin	s&p	Salt & Pepper		
calc	Calcite (arenous)			sb	Sub	*	Broken Core (K90 used summary purpose)
carb	Carbonaceous	lam	Laminated	scat	Scattered		
chl	Cobble (64-256 mm)	len	Lenticular	sd	Sand (1/16-2 mm)		
egl	Conglomerate	lrg	Large (er)	sdv	Sandy	**	Permeability >10,240 md
cht	Chert	ls	Limestone	sec	Secondary		
cln	Clean	lse	Loose	sed	Sediment (ary)	<.01	Permeability less than 0.01
clv	Clay (ey)			sft	Soft		
emt	Cement (ed)	m	Medium	sh	Shale		
Cor	Coral	mar	Maroon	shy	Shaly	KMAX and K90 are transverse permeability measurements on full diameter samples	
carbnt	Carbonate	mas	Massive	sld	Siderite		
Crin	Crinoid (al)	mica	Mica (eous)	sll	Silica (eous)	DE	Dense
crpxl	Cryptocrystalline	mic	Micro	sl	Slight (ly)	DR	Drilled
		mir	Minor	slt	Silt	LC	Lost Core
decr	Decrease (ing)	mrsl	Mineral (ized)	silst	Siltstone	NT	Not Tested
dism	Disseminated	mot	Mottled	slty	Silty	KU	Rubble
dk	Dark (er)	musc	Muscovite	SP	Small Plug		
dns	Dense			srt	Sort (ed) (ing)	Cum	Cumulative
dol	Dolomite (ic)	n	no, none, not	ss	Sandstone	Frac	Fraction
		nod	Nodules	strom	Stromatopora	KV	Vertical Permeability
f	Fine (ly)			stromlt	Stromatolite	Md-M	Millidarcy Metre
Fe-st	Ironstone	occ	Occasional	styl	Stylolite (ic)	Por-M	Porosity Metre
fis	Fissile	ool	Oolite (ic)	suc	Sucrosia	Resid	Residual
fl	Fill (ed)					Rng	Range
fld	Feldspar (thic)	p	Poor (ly)	Tham	Thamopora	Smpl	Sample
fos	Fossil (iferous)	pbl	Pebble	thk	Thick	Thickness	Representative Thickness
frac	Fracture (ed)	pk	Pink	thn	Thin	Wt. Avg.	Weighted Average
frag	Fragment (al)	pl	Plant	thru	Throughout		
fri	Friable	plg	Plug	tr	Trace		
				tt	Tight (ly)		

FORMATION TESTING

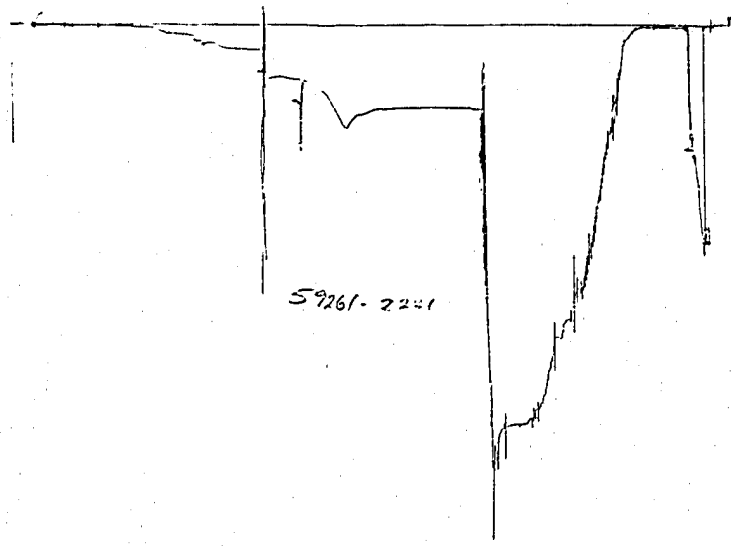
Technical Report



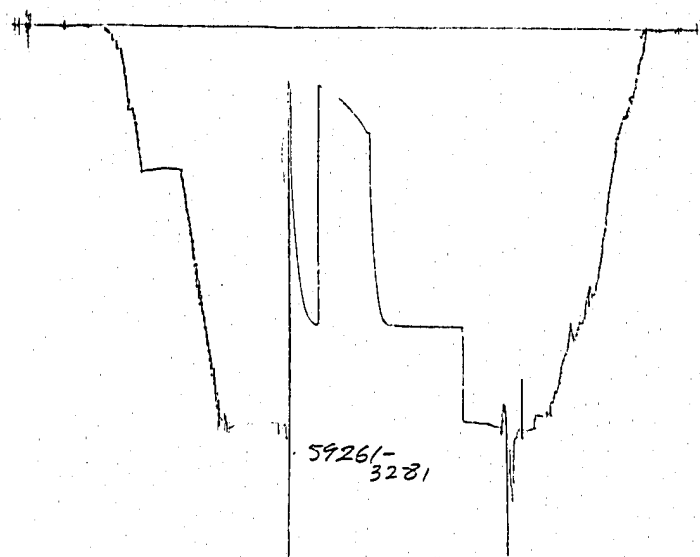
CALGARY, ALBERTA

A **Halliburton** Company

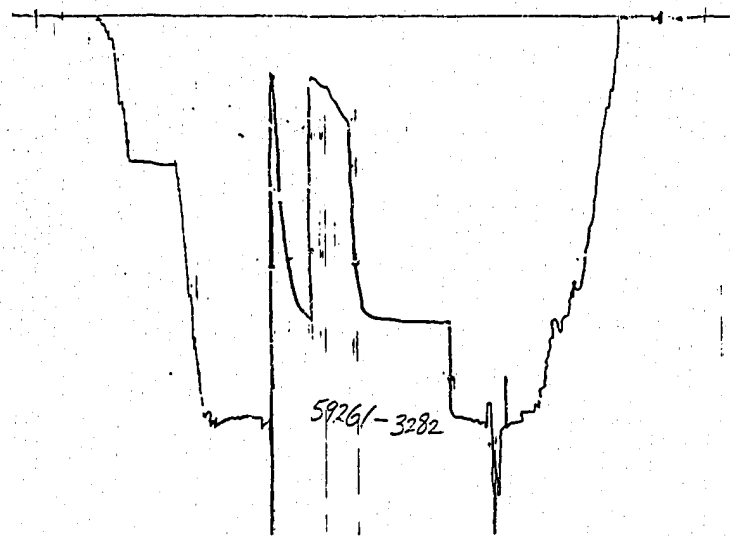
TIME →
PRESSURE ↓



59261-2241

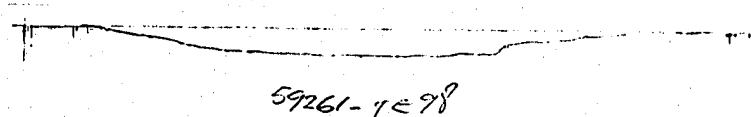
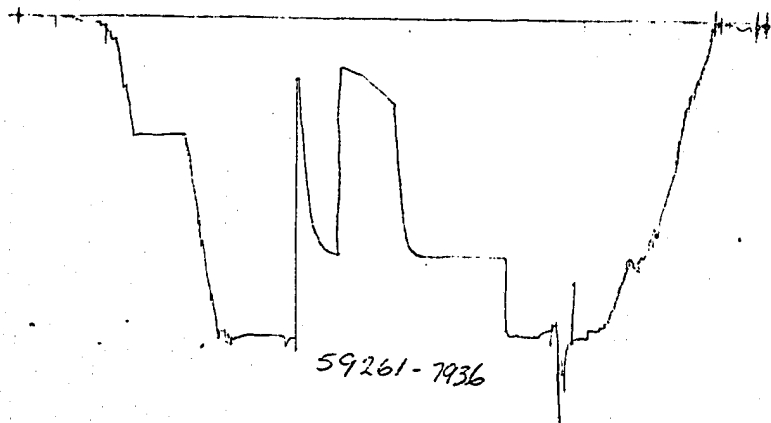


59261-3281



59261-3282

TIME
PRESSURE



TIME
PRESSURE



NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

TESTERS	G. Taylor
WITNESS	J. Speers
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 261
DATE OF TEST	85-02-10
TEST No.	1
JOB TYPE	Dual Bottom Hole

PRESSURE SUMMARY kPa						
GAUGE NUMBER	2221	3281	3282	7936		
GAUGE DEPTH	1487.55	1492.83	1494.08	1514.75		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 052	16 024	16 182	CANADA OIL AND GAS LANDS ADMINISTRATION ADMINISTRATION DU PETROLE ET DU GAZ DES PROVINCES DU CANADA JULY 14 1986 ENGINEERING AND CONTROL TECHNIQUE DU CONTRÔLE	
FIRST FLOW	INITIAL	1 035	2 191	2 245		
	FINAL	2 084	2 513	2 422		
FIRST CLOSED IN		2 289	12 131	12 035		
SECOND FLOW	INITIAL	2 342	2 369	2 374	JULY 14 1986 ENGINEERING AND CONTROL TECHNIQUE DU CONTRÔLE	
	FINAL	4 280	4 392	4 307		
SECOND CLOSED IN		3 465	12 198	12 133		
THIRD FLOW	INITIAL					
	FINAL				JULY 14 1986 ENGINEERING AND CONTROL TECHNIQUE DU CONTRÔLE	
THIRD CLOSED IN						
FINAL HYDROSTATIC		16 104	16 048	16 147		

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW	5	90		TESTER VALVE OPENED	06:16
CLOSED IN	60	180		PACKER UNSEATED	11:51

LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
MEASURED FROM TESTER VALVE	180	Gasified mud.
180	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	TE98
		DEPTH	1495.33 m
		MAX. TEMP.	42 °C
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.14 m	MUD DENSITY	1080 kg/m³
		MUD VISC	60 s/L
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1502 BOTTOM m	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1490.29 m	DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A m	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m 77.11
TOTAL DEPTH	1516 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA			
OIL GRAVITY	@ °C	SAMPLE SHIPPED TO LABORATORY	YES NO
GAS/OIL RATIO		SAMPLER No. 82	☒ ☐
REFRACTOMETER / RELATIVE DENSITY		GAS SAMPLE BOTTLE No. 5865, 1466	☒ ☐
RECOVERY WATER	@ °C	LABORATORY C and G (Grande Prairie)	
CHLORIDE CONTENT	38 490 mg/L		

REMARKS

Fluid recorder chart indicates leaky drill pipe while running into hole.
Initial Closed In Period has insufficient closure for Horner Extrapolation.

LEGAL DESCRIPTION	COMPANY	HOME OIL COMPANY LIMITED
PROVINCE OR TERRITORY	AREA	FIELD OR AREA
	N.M.T.	SILT LAKE SOUTH
TEST NUMBER	1	WELL NAME AND NUMBER
TESTED INTERVAL	1502 - 1516	HOME SILT LAKE SOUTH

59 261

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-10

TICKET # 59261

* Gauge Number : 7936. *

* Gauge Depth : 1515. m *

* Time of Flow : 5.0 min. *

* Final Pressure : 3096.6 kPa. *

Initial Hydrostatic Pressure = 16182.2 kPa

Final Hydrostatic Pressure = 16147.1 kPa

GAUGE 1, FLOW 1

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	4679.0
2.	0.0116	2.5	3115.8
3.	0.0232	5.0	3096.6

HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 1

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0064	2.0	0.5505	4388.4
2.	0.0132	4.0	0.3497	5578.2
3.	0.0197	6.0	0.2622	6296.6
4.	0.0261	8.0	0.2111	6999.4
5.	0.0328	10.0	0.1755	7571.1
6.	0.0393	12.0	0.1509	8124.6
7.	0.0491	15.0	0.1247	8809.6
8.	0.0654	20.0	0.0968	9762.4
9.	0.0817	25.0	0.0792	10480.3
10.	0.0979	30.0	0.0670	11047.5
11.	0.1142	35.0	0.0581	11438.3
12.	0.1308	40.0	0.0511	11711.0
13.	0.1468	44.9	0.0458	11882.8
14.	0.1469	45.0	0.0458	11882.8
15.	0.1633	50.0	0.0414	11988.2
16.	0.1797	55.0	0.0378	12051.8
17.	0.1960	60.0	0.0348	12079.1

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-10

TICKET # 59261

* Gauge Number : 7936. *

* Gauge Depth : 1515. m *

* Time of Flow : 90.0 min. *

* Final Pressure : 4379.3 kPa. *

GAUGE 1, FLOW 2

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	3984.2
2.	0.0330	10.0	2592.7
3.	0.0658	20.0	2715.5
4.	0.0986	30.0	2848.3
5.	0.1314	40.0	2976.6
6.	0.1644	50.0	3206.5
7.	0.1973	60.0	3523.8
8.	0.2301	70.0	3798.0
9.	0.2629	80.0	4097.8
10.	0.2959	90.0	4379.3

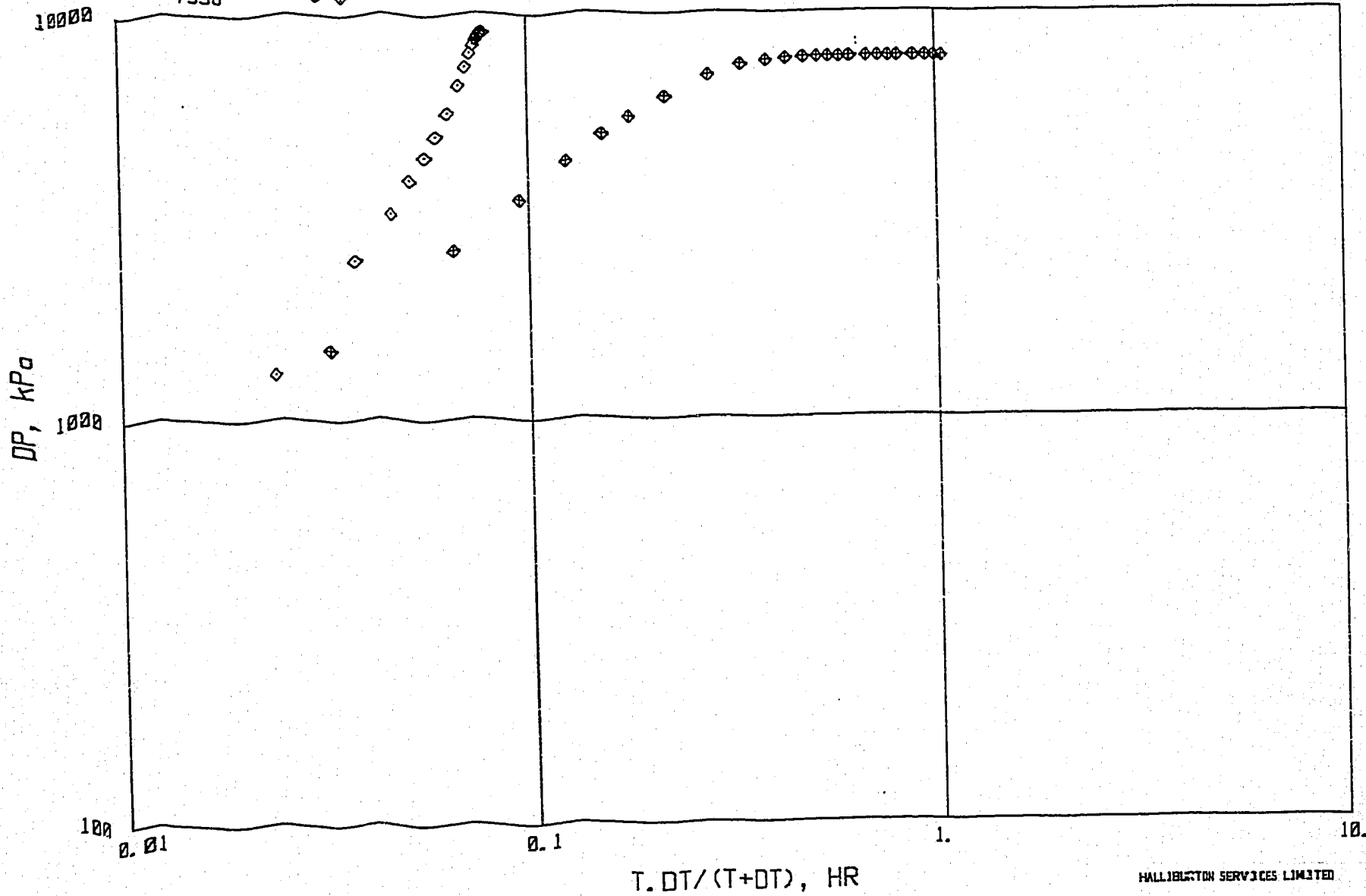
HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 2

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0067	2.0	1.6917	5873.3
2.	0.0136	4.0	1.3932	6986.7
3.	0.0205	6.0	1.2238	7870.5
4.	0.0271	8.0	1.1109	8698.0
5.	0.0341	10.0	1.0197	9382.2
6.	0.0406	12.0	0.9518	9923.0
7.	0.0510	15.0	0.8650	10611.2
8.	0.0679	20.0	0.7599	11365.6
9.	0.0851	25.0	0.6806	11798.3
10.	0.1019	30.0	0.6198	11980.0
11.	0.1189	35.0	0.5699	12067.3
12.	0.1360	40.0	0.5280	12097.3
13.	0.1529	45.0	0.4929	12106.4
14.	0.1699	50.0	0.4623	12110.9
15.	0.1869	55.0	0.4357	12112.7
16.	0.2040	60.0	0.4120	12115.5
17.	0.2379	70.0	0.3723	12120.0
18.	0.2719	80.0	0.3398	12120.0
19.	0.3056	90.0	0.3130	12124.6
20.	0.3396	100.0	0.2901	12124.6
21.	0.4075	120.0	0.2533	12125.5
22.	0.4755	140.0	0.2250	12125.5
23.	0.5435	160.0	0.2024	12125.5
24.	0.6115	180.0	0.1841	12125.5

GAUGE NO 7936 CIP 1 2

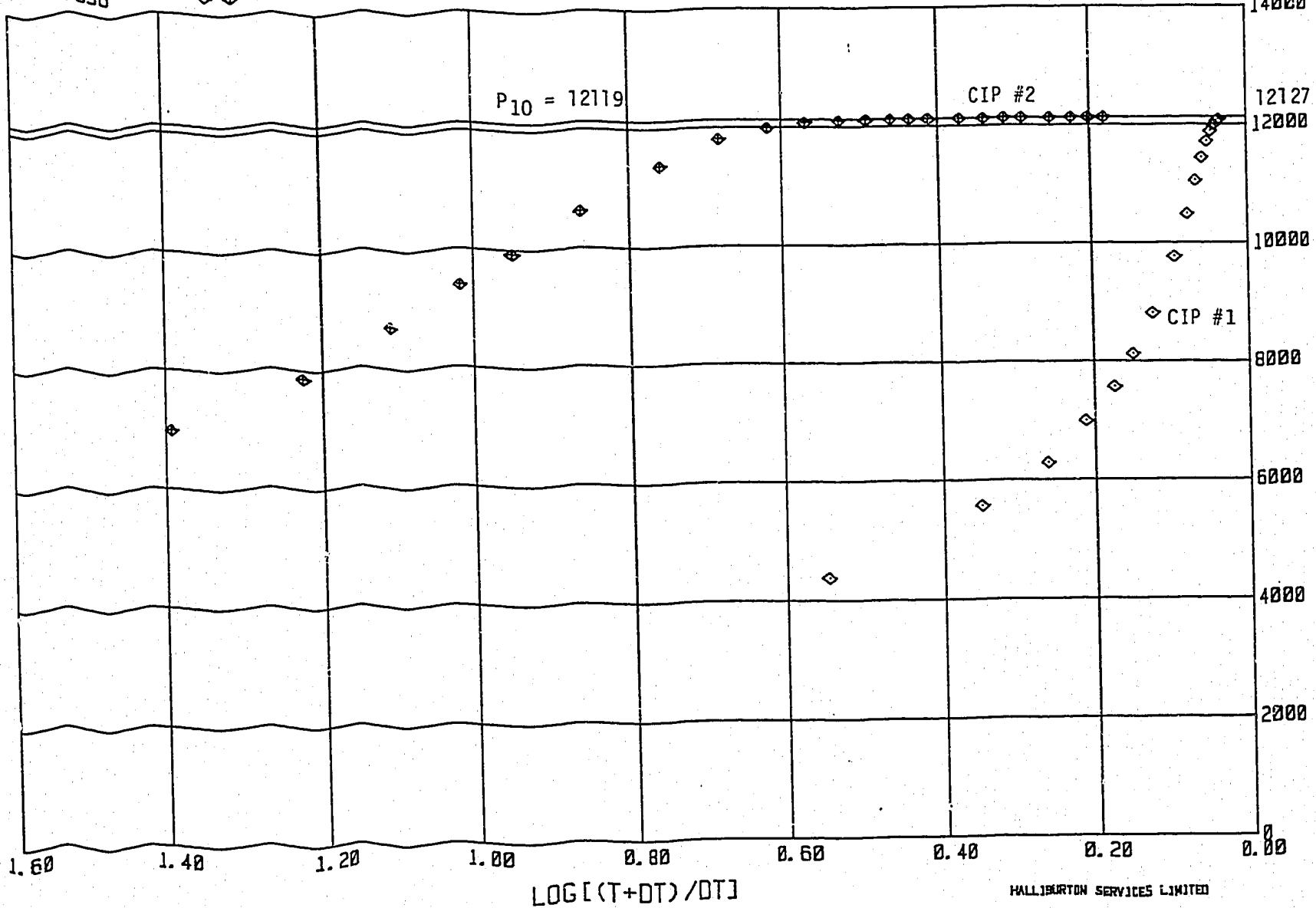
TICKET NO 59261



HALLIBURTON SERVICES LIMITED

GAUGE NO 7936 CIP 1 2

TICKET NO 59261



HALLIBURTON SERVICES LIMITED

HALLIBURTON SERVICES LIMITED

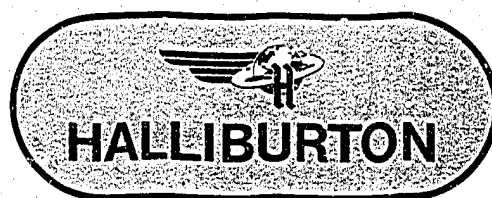
TICKET NO. 59261

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	67.66	
50	IMPACT REVERSING SUB.....	171.5	76.2	0.31	
3	DRILL COLLARS.....	171.0	71.0	9.45	
5	CROSSOVER.....	171.5	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1487.55
12	DUAL CIP VALVE.....	127.0	22.1	1.49	
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1490.29
80	AP RUNNING CASE.....	127.0	57.2	1.25	1492.83
80	AP RUNNING CASE.....	127.0	57.2	1.25	1494.08
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	0.85	
70	OPEN HOLE PACKER.....	196.9	38.9	1.83	
70	OPEN HOLE PACKER.....	196.9	38.9	1.83	1502.00
21	PERFORATED TAIL PIPE.....	127.0	60.2	1.98	
5	CROSSOVER.....	171.5	76.2	0.31	
3	DRILL COLLARS.....	171.0	71.0	9.54	
5	CROSSOVER.....	171.5	76.2	0.31	
81	BLANKED-OFF RUNNING CASE.....	127.0	57.2	1.25	1514.75

EQUIPMENT DATA

FORMATION TESTING

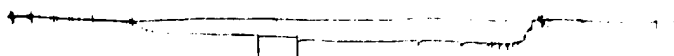
Technical Report



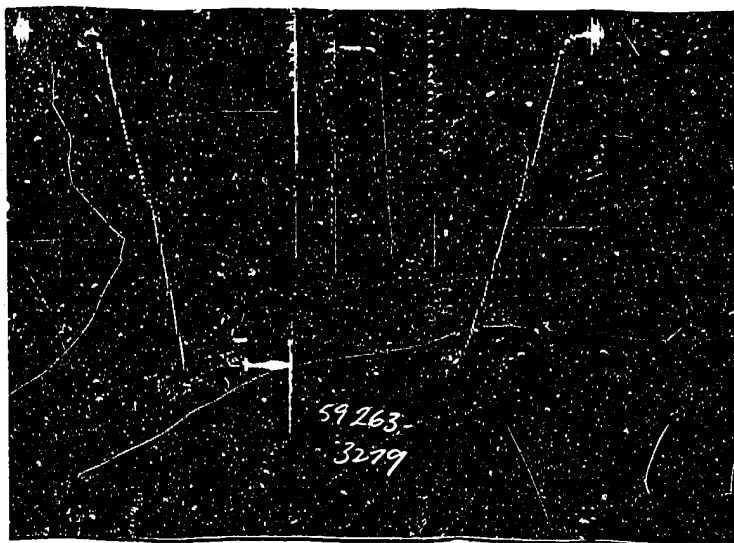
CALGARY, ALBERTA

A **Halliburton** Company

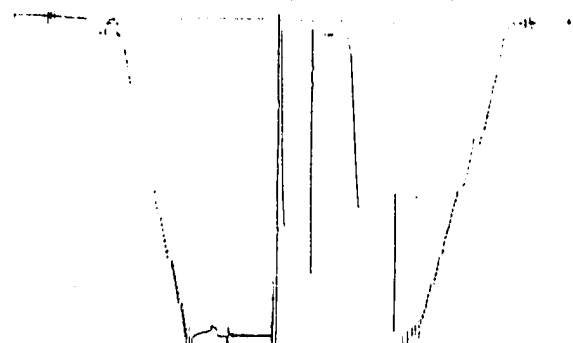
TIME
PRESSURE



59263-2221

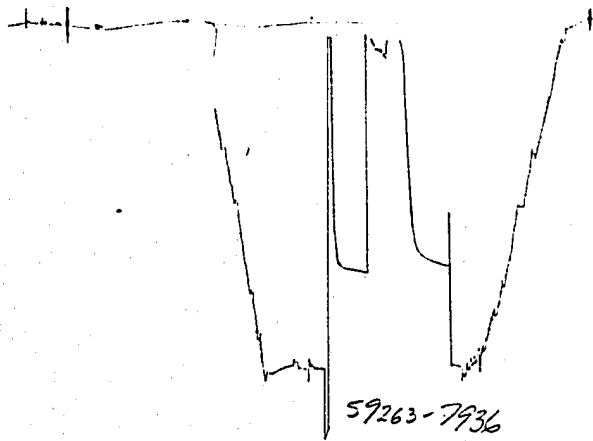


59263-3279

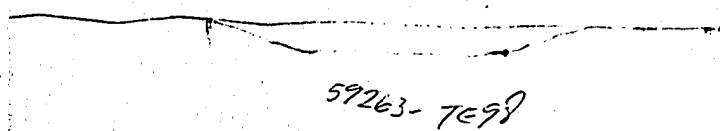


59263-3650

TIME
PRESSURE



59263-7936





NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 263
DATE OF TEST	85-02-20
TEST No.	2
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	2221	3279	3650	7936		
GAUGE DEPTH	1703.35	1709.30	1710.55	1735.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOUR CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		19 318	18 774	19 538		
FIRST FLOW	INITIAL 589	*	611	939		
	FINAL 640	*	649	1 022		
FIRST CLOSED IN	634	13 857	13 404	14 085		
SECOND FLOW	INITIAL 634	774	650	984		
	FINAL 794	832	791	1 098		
SECOND CLOSED IN	797	13 496	13 070	13 682		
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		18 970	18 531	19 144		

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW	5	60			13:55
CLOSED IN	60	90		PACKER UNSEATED	17:30

LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
60	Inhibitor cut mud.	
60	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA	
FORMATION TESTED	Keg River
TEMP. REC. No.	1E98
DEPTH	1711.80 m
MAX. TEMP.	44 °C
NET PRODUCTIVE THICKNESS	Gel Chemical
K B ELEVATION	625.1 m
MUD TYPE	kg/m³ 1110 MUD VISC 77 s/L
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND
CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1724 BOTTOM 1734 m
RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1704.60 m
DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A m
DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m 85.85
TOTAL DEPTH	1846 m
SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil
BOTTOM CHOKE	19.05 mm

SAMPLE DATA		SAMPLE SHIPPED TO LABORATORY		YES	NO
OIL GRAVITY	@ °C	SAMPLER No.		☐	☒
GAS/OIL RATIO		GAS SAMPLE BOTTLE No.		☐	☒
REFRACTOMETER/RELATIVE DENSITY		LABORATORY	Recovery samples to C and G (Grande Prairie)		
RECOVERY WATER	@ °C				
CHLORIDE CONTENT	33 650 mg/L				

REMARKS

Charts indicate plugging perforations for the first 35 minutes of the Final Flow:

Gauge #3650 out of calibration, questionable data.

* Not readable.

LEGAL DESCRIPTION	COMPANY	HOME OIL COMPANY LIMITED
PROVINCE OR TERRITORY	AREA	FIELD OR
	N.W.T.	SILT LAKE SOUTH
TEST NUMBER	2	WELL NAME AND NUMBER
TESTED INTERVAL	1724 - 1734	HOME SILT LAKE SOUTH G-21

25 963

PRODUCTION TEST DATA

25

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-20

TICKET # 59263

```

-----
* Gauge Number      : 7936.          *
* Gauge Depth       : 1736.    m     *
* Time of Flow      : 5.0 min.    *
* Final Pressure    : 1022.0 kPa.  *
-----
  
```

Initial Hydrostatic Pressure = 19537.8 kPa
 Final Hydrostatic Pressure = 19144.1 kPa

GAUGE 1, FLOW 1

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	938.7
2.	0.0106	2.5	1015.6
3.	0.0216	5.0	1022.0

HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 1

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0059	2.0	0.5377	7403.2
2.	0.0115	4.0	0.3534	10311.3
3.	0.0174	6.0	0.2626	12136.6
4.	0.0230	8.0	0.2117	13179.6
5.	0.0289	10.0	0.1761	13527.6
6.	0.0347	12.0	0.1512	13704.8
7.	0.0433	15.0	0.1251	13822.6
8.	0.0579	20.0	0.0968	13917.0
9.	0.0723	25.0	0.0791	13957.4
10.	0.0868	30.0	0.0669	13988.9
11.	0.1011	35.0	0.0580	14011.4
12.	0.1156	40.0	0.0512	14022.1
13.	0.1300	45.0	0.0458	14056.3
14.	0.1444	50.0	0.0414	14077.9
15.	0.1589	55.0	0.0378	14076.1
16.	0.1734	60.0	0.0348	14085.1

HALLIBURTON SERVICES LIMITED

SPECIAL PRESSURE DATA

DATE: 85-02-20

TICKET # 59263

```

-----
* Gauge Number      :    7936.      *
* Gauge Depth       :    1736.    m   *
* Time of Flow      :    60.0 min.  *
* Final Pressure    :    1098.1 kPa. *
-----
    
```

GAUGE 1, FLOW 2

	Time Deflection (in)	Time (minutes)	Pressure (kPa)
1.	0.0000	0.0	983.6
2.	0.0177	5.0	1071.5
3.	0.0350	10.0	1292.2
4.	0.0525	15.0	1654.9
5.	0.0701	20.0	1551.4
6.	0.0877	25.0	1684.2
7.	0.1054	30.0	1826.1
8.	0.1230	35.0	1208.0
9.	0.1403	40.0	1107.2
10.	0.1581	45.0	1084.3
11.	0.1754	50.0	1088.9
12.	0.1931	55.0	1095.3
13.	0.2106	60.0	1098.1

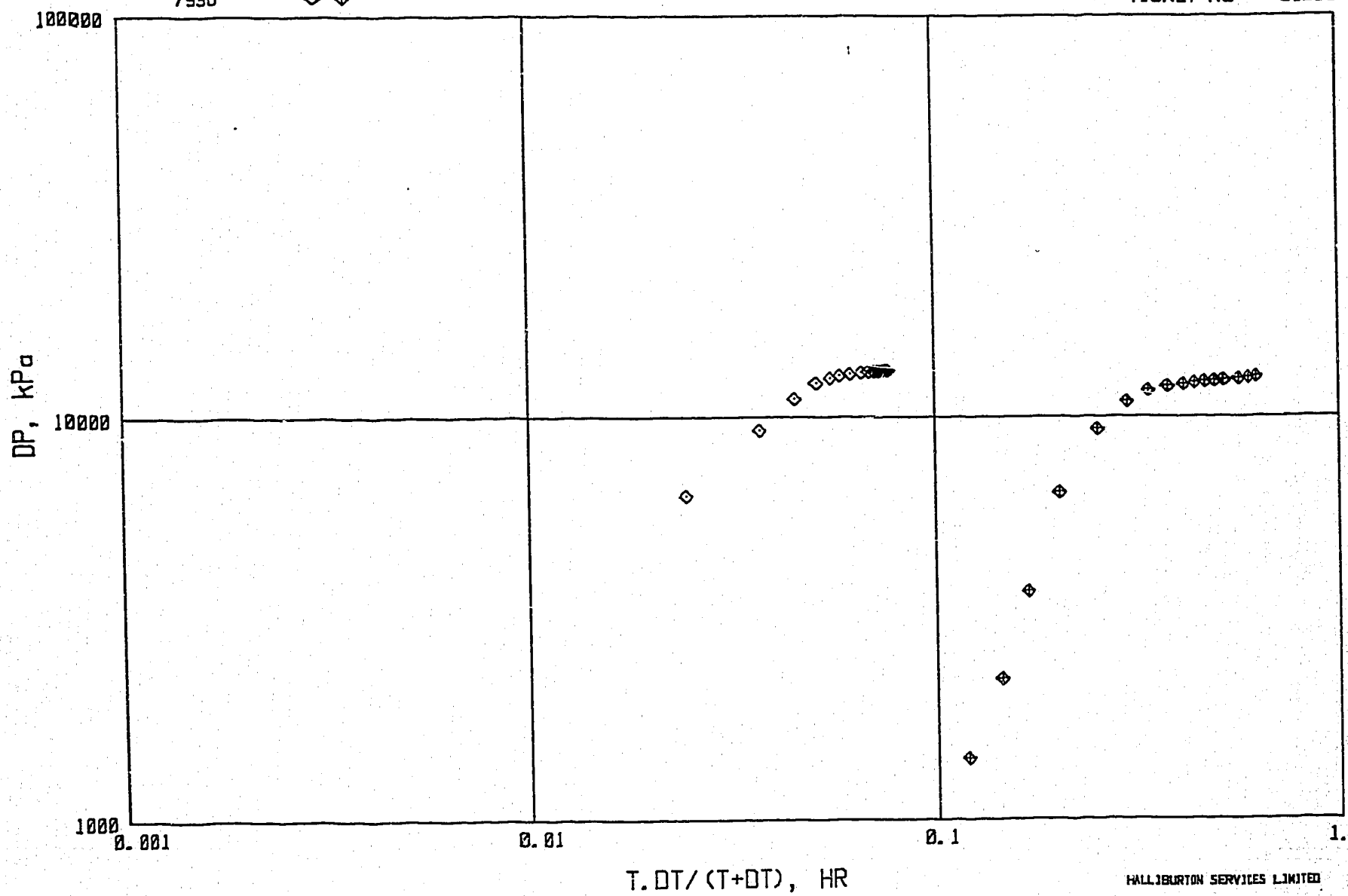
HALLIBURTON SERVICES LIMITED

GAUGE 1, CIP 2

	Time Deflection (in)	Time (minutes)	T+dt Log ---- dt	Pressure (kPa)
1.	0.0065	2.0	1.5308	1275.7
2.	0.0131	4.0	1.2392	1565.1
3.	0.0199	6.0	1.0704	1978.1
4.	0.0265	8.0	0.9581	2518.5
5.	0.0330	10.0	0.8744	3337.2
6.	0.0396	12.0	0.8067	4787.2
7.	0.0494	15.0	0.7271	7580.2
8.	0.0660	20.0	0.6278	10420.3
9.	0.0824	25.0	0.5562	12019.4
10.	0.0988	30.0	0.5007	12727.2
11.	0.1153	35.0	0.4559	13005.2
12.	0.1319	40.0	0.4189	13134.2
13.	0.1481	45.0	0.3884	13245.1
14.	0.1646	50.0	0.3619	13318.7
15.	0.1811	55.0	0.3389	13382.3
16.	0.1976	60.0	0.3188	13436.8
17.	0.2305	70.0	0.2853	13529.4
18.	0.2636	80.0	0.2582	13620.3
19.	0.2965	90.0	0.2361	13682.1

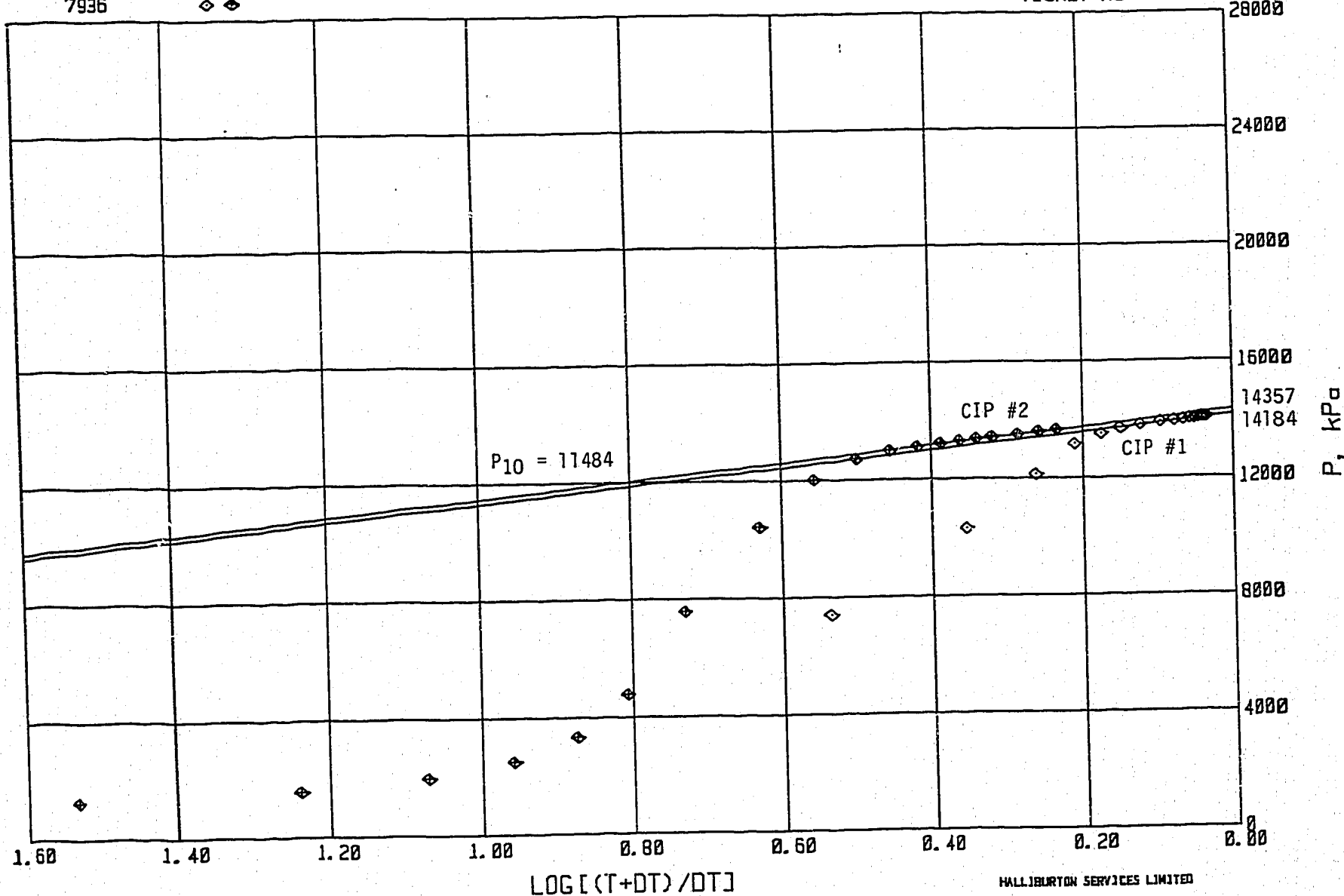
GAUGE NO CIP 1 2
7936 $\diamond$ $\diamond$

TICKET NO 59263



GAUGE NO CIP 1 2
7936

TICKET NO 59263



$\text{LOG}[(T+DT)/DT]$

HALLIBURTON SERVICES LIMITED

HALLIBURTON SERVICES LIMITED

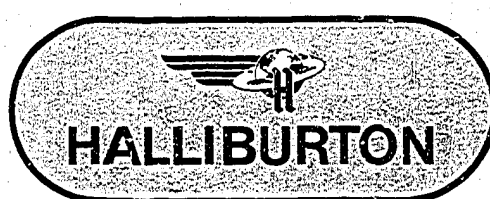
TICKET NO. 59263

		O. D. (mm)	I. D. (mm)	LENGTH (m)	DEPTH (m)	
3		DRILL COLLARS.....	171.0	71.0	57.28	
50		IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3		DRILL COLLARS.....	171.0	71.0	28.57	
5		CROSSOVER.....	171.0	76.2	0.31	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1703.35
60		HYDROSPRING TESTER.....	127.0	19.1	2.54	1704.60
14		EXTENSION JOINT.....	127.0	25.4	2.16	
80		AP RUNNING CASE.....	127.0	57.2	1.25	1709.30
80		AP RUNNING CASE.....	127.0	57.2	1.25	1710.55
82		TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15		JAR.....	127.0	44.5	1.52	
26		PUMP ASSEMBLY.....	127.0	22.3	2.15	
27		SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11		HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13		HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74		TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1724.00
28		PORT ASSEMBLY.....	127.0		1.03	
22		BLANK ANCHOR.....	127.0	57.2	7.57	
75		LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1734.00
97		BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1735.76

EQUIPMENT DATA

FORMATION TESTING

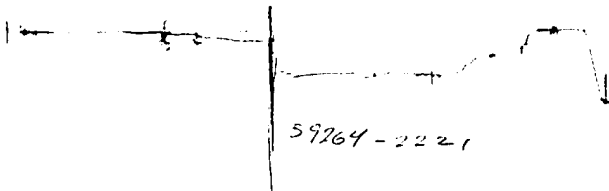
Technical Report



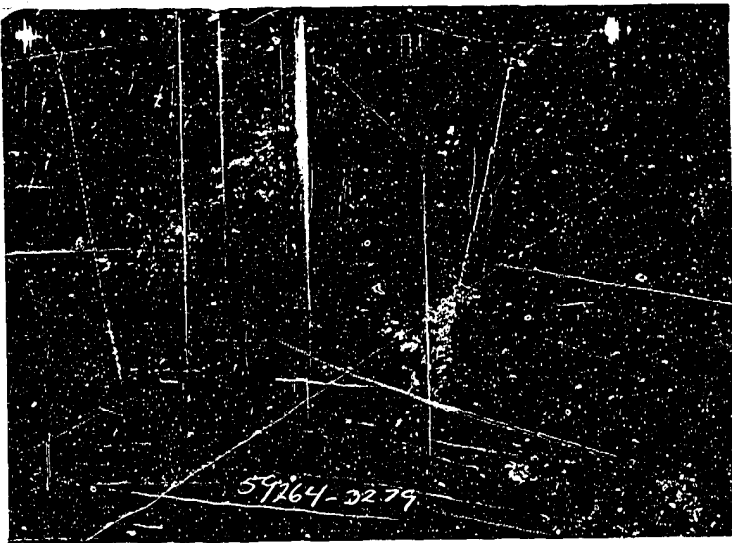
CALGARY, ALBERTA

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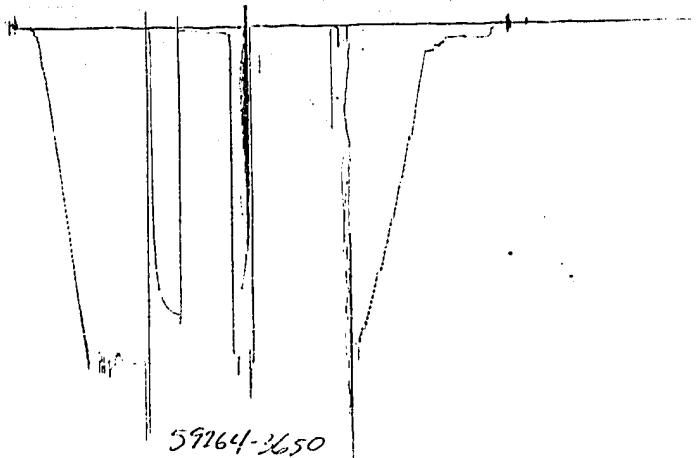
TIME
PRESSURE



59264-2221

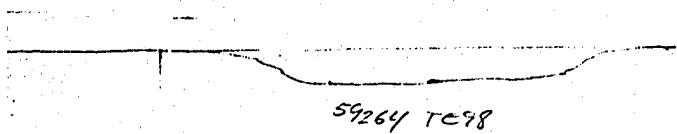
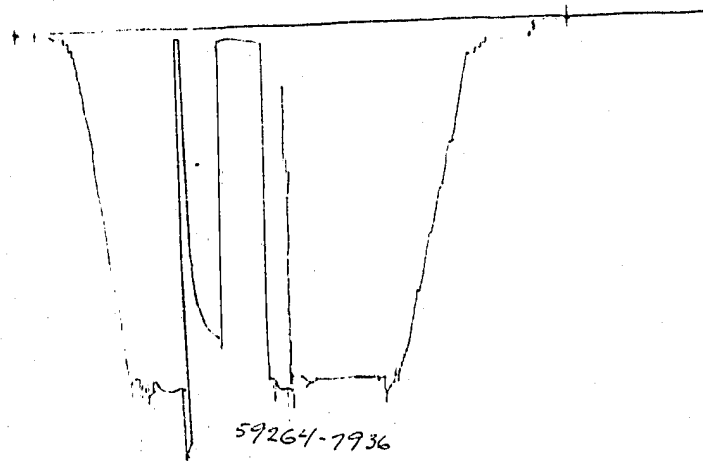


59264-2279



59264-3650

TIME
PRESSURE





NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

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59 264

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

TICKET NO. 59 264

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	71.0	28.57	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1770.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1771.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1776.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1777.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1791.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	9.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1803.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1804.76

EQUIPMENT DATA

FORMATION TESTING

Technical Report

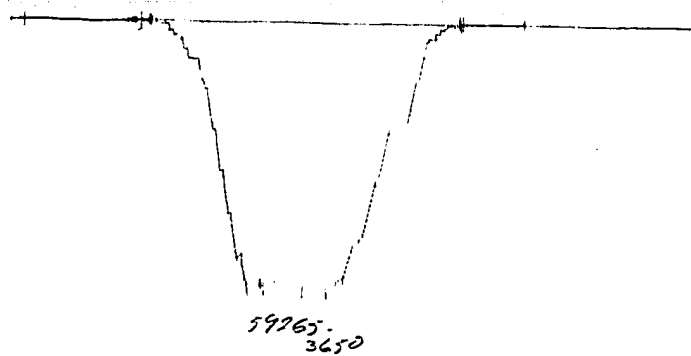
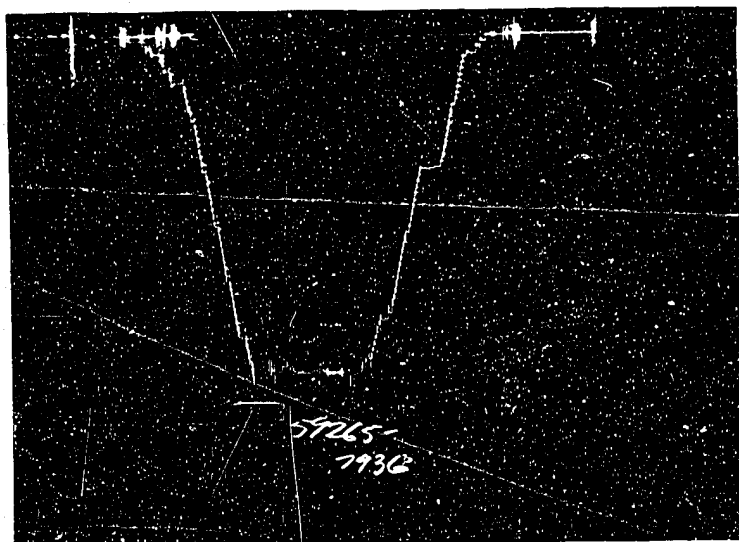


CALGARY, ALBERTA

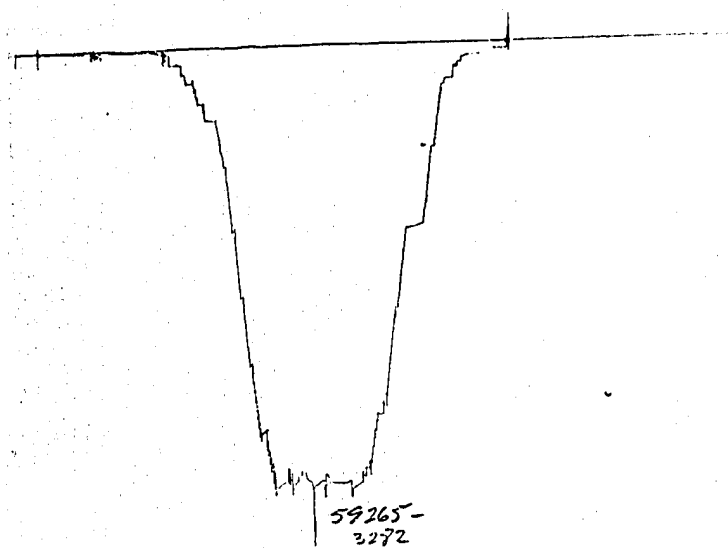
A **Halliburton** Company

TIME
PRESSURE

59265-3279



TIME
PRESSURE



59265 1E98





NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

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TESTERS	
G. Taylor	
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



REFER TO INVOICE NO.	59 265
DATE OF TEST	85-02-21
TEST No.	4
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.35	1504.30	1505.55	1538.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC						
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC						

TIME PERIODS					
	FIRST	SECOND	THIRD		TIME
FLOW				TESTER VALVE OPENED	
CLOSED IN				PACKER UNSEATED	

LIQUID RECOVERY DATA		
METRES	DESCRIPTION OF LIQUID	
MEASURED FROM TESTER VALVE		
Nil	TOTAL LIQUID RECOVERY	

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point		
TEMP. REC. No.	TE98		
DEPTH	1506.80		
MAX. TEMP.			
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1	MUD DENSITY	1110
		MUD VISC	77
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1519 BOTTOM 1537	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1499.60	DRILL PIPE	114.3
		OD mm	24.7
CASING PERFORATED INTERVAL	N/A	DRILL COLLARS ABOVE TESTER VALVE	71
		10 mm	76.3
TOTAL DEPTH	1846	SURFACE CHOKE	25.4
		mm	
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05
		mm	

SAMPLE DATA			
OIL GRAVITY	@		°C
GAS/OIL RATIO			
REFRACTOMETER/RELATIVE DENSITY			
RECOVERY WATER	@		°C
CHLORIDE CONTENT			mg/L
SAMPLE SHIPPED TO LABORATORY	YES	NO	
SAMPLER No.			
GAS SAMPLE BOTTLE No.			
LABORATORY	N/A		

REMARKS

Misrun. No packer seat.

LEGAL DESCRIPTION	COMPANY	HOME OIL COMPANY LIMITED	PROVINCE OR TERRITORY	N.M.T.	FIELD OR AREA	SILT LAKE SOUTH	WELL NAME AND NUMBER	HOME SILT LAKE SOUTH G-21
	TEST NUMBER	4	TESTED INTERVAL	1519 - 1537				

TICKET NO. 59 265

DATES AND TIMES (00:00-24:00 HRS.)		CHOKE SIZE (mm)	SURFACE PRESSURE (kPa)	GAS RATE (m ³ /day)	LIQUID RATE (m ³ /day)	REMARKS
85-02-20						
20:00						Finish changing packers and bypass pipe.
22:21						Run in hole.
02:15						Head up.
02:50						Start pumping.
03:30						Packers didn't set.
03:35						Reset and pump.
04:15						Packers didn't set.
04:35						Pull loose.
08:35						Recover recorders.
10:00						Job complete.
						Top packer cut, change out pump and service screen.
						Misrun.

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

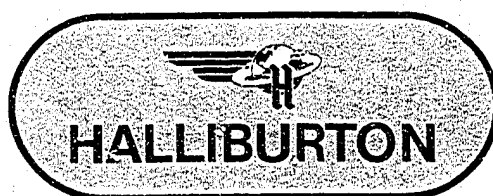
TICKET NO. 59 265

		O.D.(mm)	I.D.(mm)	LENGTH(m)	DEPTH(m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	76.2	19.03	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1498.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1504.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1505.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1519.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	15.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA

FORMATION TESTING

Technical Report

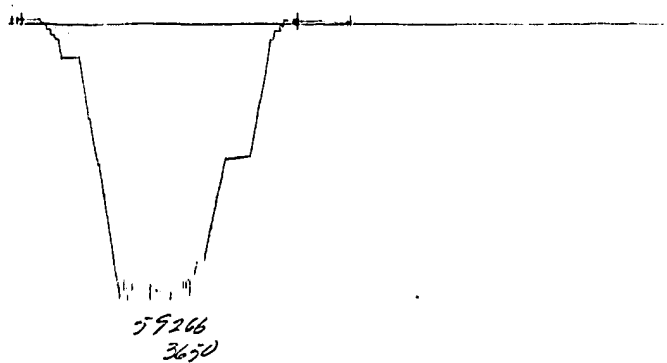
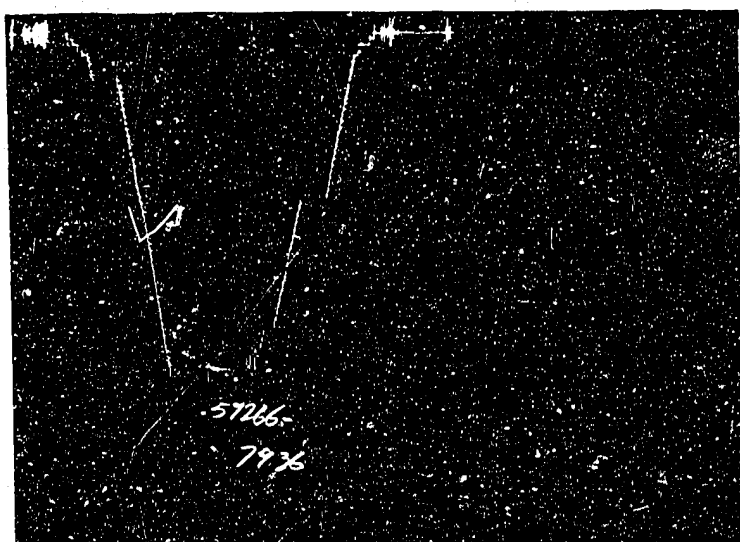


CALGARY, ALBERTA

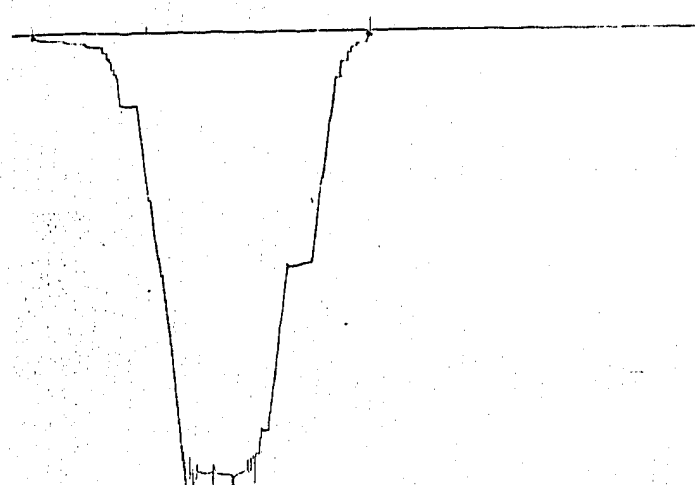
A **Halliburton** Company

TIME
PRESSURE

59266-3279



TIME
PRESSURE



59266-
32.82

59266-7E78



NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLEN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

NOTICE

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TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 266
DATE OF TEST	85-02-22
TEST No.	5
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.35	1504.30	1505.55	1538.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC					CANADA OIL AND GAS LANDS ADMINISTRATION ADMINISTRATION DU PETROLE ET DU GAZ DES PROVINCES DU CANADA JULY 14 1986 ENGINEERING AND CONSTRUCTION BRANCH TECHNIQUE ET DU CONSTRUCTION	
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC						

TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW					
CLOSED IN				PACKER UNSEATED	

LIQUID RECOVERY DATA	
METRES	DESCRIPTION OF LIQUID
MEASURED FROM TESTER VALVE	
Nil	TOTAL LIQUID RECOVERY

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	1E98
		DEPTH	1506.80
		MAX. TEMP.	°C
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1	MUD DENSITY	kg/m ³ 1110
		MUD VISC	s/L 77
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1519 BOTTOM 1537	RATHOLE SIZE	mm
DEPTH OF TESTER VALVE	1499.60	DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71
TOTAL DEPTH	1846	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA		SAMPLE SHIPPED TO LABORATORY		YES	NO
OIL GRAVITY	@ °C	SAMPLER No.		☐	☒
GAS/OIL RATIO		GAS SAMPLE BOTTLE No.		☐	☒
REFRACTOMETER/RELATIVE DENSITY		LABORATORY	N/A		
RECOVERY WATER	@ °C				
CHLORIDE CONTENT	mg/L				

REMARKS

Misrun. No packer seat.

LEGAL DESCRIPTION	COMPANY	HOME OIL COMPANY LIMITED	FIELD OR AREA	SILT LAKE SOUTH	WELL NAME AND NUMBER	HOME SILT LAKE SOUTH G-21
PROVINCE OR TERRITORY			N.W.T.		TEST NUMBER	5
					TESTED INTERVAL	1519 - 1537

59 266

[illegible]

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

TICKET NO.

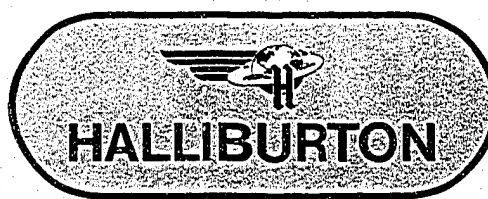
59 266

		O. D. (mm)	I. D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	76.2	19.03	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1498.35
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.60
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1504.30
80	AP RUNNING CASE.....	127.0	57.2	1.25	1505.55
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
11	HYDROFLATE PRESSURE LIMITER.....	127.0	25.4	1.49	
13	HYDROFLATE SAFETY JOINT.....	127.0	25.4	1.63	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1519.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	1.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA

FORMATION TESTING

Technical Report

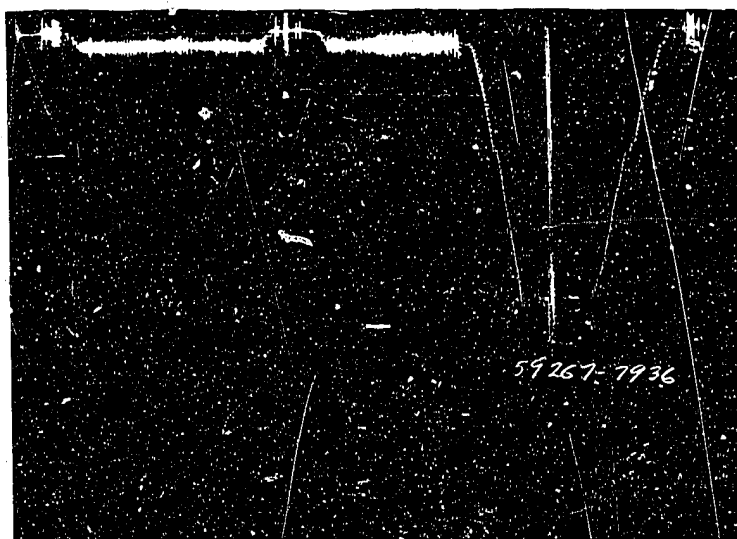


CALGARY, ALBERTA

A **Halliburton** Company

TIME
PRESSURE

59267-3:19



4 10 6

59267
X20

TIME
PRESSURE

59267-
3252

59267-7E98



NOMENCLATURE

b	=	Formation Volume Factor	1
CD	=	Wellbore Storage Coefficient	1
CT	=	System Compressibility	1/kPa
CUSH	=	Metres or Density of Cushion	m OR kg/m ³
DCFAC	=	Drill Collar Factor	m ³ /m
DCID	=	Drill Collar I.D.	mm
DCLN	=	Drill Collar Length	m
DPFAC	=	Drill Pipe Factor	m ³ /m
DPID	=	Drill Pipe I.D.	mm
DR	=	Damage Ratio	1
GOR	=	Gas Oil Ratio	1
GRAD	=	Gradient	kPa/m
h	=	Estimated Net Pay Thickness	m
K	=	Permeability	mD
Kh	=	Permeability * Net Pay	mD.m
Kh/u	=	Transmissibility	mD.m/mPa.s
M(P*)	=	Real Gas Potential of P*	P Pa.Pa/Pa.s
M(Pf)	=	Real Gas Potential of Pf	P Pa.Pa/Pa.s
OF1	=	Indicated Flow Rate (Max)	m ³ /d
OF2	=	Indicated Flow Rate (Min)	m ³ /d
OF3	=	Theoretical Flow Rate (Max)	m ³ /d
OF4	=	Theoretical Flow Rate (Min)	m ³ /d
P*	=	Extrapolated Static Pressure	kPa
PD	=	Pressure Dimensionless	1
Pd	=	Pressure Drop across Damaged Zone (except Gas Horner)	kPa P Pa.Pa/Pa.s
Pf	=	Final Flow Pressure	kPa
PI	=	Productivity Index	kPa
POROS	=	Porosity	%
Pot.	=	Potential Surface	m
Q	=	Liquid Production Rate During Test	m ³ /d
Q1	=	Theoretical Liquid Production Rate with Damage Removed	m ³ /d
S	=	Skin Factor	1
SPGR	=	Gas Gravity	1
SPO	=	Oil Gravity	1
TD	=	Time Dimensionless	1
TEMP	=	Temperature	Celsius
TVDEP	=	Tester Valve Depth	m
VISG	=	Viscosity of Gas	uPa.s
VISO	=	Viscosity of Oil	mPa.s
VISW	=	Viscosity of Water	mPa.s
Z	=	Gas Deviation Factor	1

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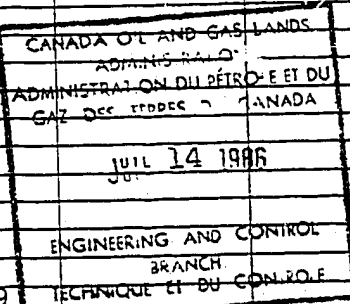
TESTERS	G. Taylor
WITNESS	D. Kamieniecki
DRILLING CONTRACTOR	Hi Tower #17



FORMATION TESTING
DATA SHEET

REFER TO INVOICE NO.	59 267
DATE OF TEST	85-02-23
TEST No.	6
JOB TYPE	Hydroflate Straddle

PRESSURE SUMMARY kPa						
GAUGE NUMBER	3279	7936	3650	3282		
GAUGE DEPTH	1498.22	1504.17	1505.42	1538.76		
BLANKED OFF	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
HOURLY CLOCK TRAVEL	24	24	24	24		
INITIAL HYDROSTATIC		16 760	16 762	17 213		
FIRST FLOW	INITIAL					
	FINAL					
FIRST CLOSED IN						
SECOND FLOW	INITIAL					
	FINAL					
SECOND CLOSED IN						
THIRD FLOW	INITIAL					
	FINAL					
THIRD CLOSED IN						
FINAL HYDROSTATIC		16 751	16 752	17 189		



TIME PERIODS					
	FIRST	SECOND	THIRD	TESTER VALVE OPENED	TIME
FLOW					
CLOSED IN				PACKER UNSEATED	

LIQUID RECOVERY DATA	
METRES	DESCRIPTION OF LIQUID
MEASURED FROM TESTER VALVE	
Nil	TOTAL LIQUID RECOVERY

EQUIPMENT AND WELL DATA			
FORMATION TESTED	Slave Point	TEMP. REC. No.	1E98
		DEPTH	1506.67 m
		MAX. TEMP.	59 °C
NET PRODUCTIVE THICKNESS	m	MUD TYPE	Gel Chemical
K B ELEVATION	625.1 m	MUD DENSITY	1110 kg/m³
		MUD VISC	77 s/L
ALL DEPTHS MEASURED FROM:	☒ KB ☐ GROUND	CASING OR HOLE SIZE	222 mm
PACKER DEPTHS	TOP 1517 BOTTOM 1537 m	RATHOL. SIZE	mm
DEPTH OF TESTER VALVE	1499.47 m	DRILL PIPE	OD mm 114.3 kg/m 24.7
CASING PERFORATED INTERVAL	N/A m	DRILL COLLARS ABOVE TESTER VALVE	ID mm 71 LENGTH m
TOTAL DEPTH	1846 m	SURFACE CHOKE	25.4 mm
AMOUNT AND TYPE CUSHION	Nil	BOTTOM CHOKE	19.05 mm

SAMPLE DATA		YES	NO
OIL GRAVITY _____ @ _____ °C	SAMPLE SHIPPED TO LABORATORY		
GAS / OIL RATIO _____	SAMPLER No. _____	☐	☒
REFRACTOMETER / RELATIVE DENSITY _____	GAS SAMPLE BOTTLE No. _____	☐	☒
RECOVERY WATER _____ @ _____ °C	LABORATORY _____		
CHLORIDE CONTENT _____ mg/L	N/A		

REMARKS
Misrun. No packer seat.

LEGAL DESCRIPTION	COMPANY	HOME OIL COMPANY LIMITED
PROVINCE OR TERRITORY	FIELD OR AREA	SILT LAKE SOUTH
TEST NUMBER	WELL NAME AND NUMBER	HOME SILT LAKE SOUTH G-21
TESTED INTERVAL		1517 - 1537

TICKET NO. 59 267

DATES AND TIMES (00:00-24:00 HRS.)	CHOKE SIZE (mm)	SURFACE PRESSURE (kPa)	GAS RATE (m ³ /day)	LIQUID RATE (m ³ /day)	REMARKS
85-02-22					
21:30					Job started.
23:00					Run in hole.
23:40					Pump packers up in surface casing.
00:05					Packers didn't pump up.
00:10					Pull out of hole.
00:35					Change out Hydroflate pump.
01:15					Run back in hole.
01:45					Pump up packers in casing.
02:06					Packers set and pulled loose.
02:20					Run in hole.
04:20					Head up.
04:30					Start pumping packers up.
05:01					Packers set, but when tool opened, packers skidded loose and tool closed. Lost 1 m in annulus.
05:05					Reset and pump.
05:50					Packers didn't take any weight.
06:15					Pull loose.
09:15					Recover recorders.
12:15					Job complete.

PRODUCTION TEST DATA

HALLIBURTON SERVICES LIMITED

TICKET NO.

59 267

		O.D. (mm)	I.D. (mm)	LENGTH (m)	DEPTH (m)
3	DRILL COLLARS.....	171.0	71.0	57.28	
50	IMPACT REVERSING SUB.....	171.0	76.2	0.31	
3	DRILL COLLARS.....	171.0	76.2	19.03	
5	CROSSOVER.....	171.0	76.2	0.31	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1498.22
60	HYDROSPRING TESTER.....	127.0	19.1	2.54	1499.47
14	EXTENSION JOINT.....	127.0	25.4	2.16	
80	AP RUNNING CASE.....	127.0	57.2	1.25	1504.17
80	AP RUNNING CASE.....	127.0	57.2	1.25	1505.42
82	TEMPERATURE RUNNING CASE.....	127.0	57.2	1.25	
15	JAR.....	127.0	44.5	1.52	
16	VR SAFETY JOINT.....	127.0	25.4	1.06	
25	TORQUE LIMITER ASSEMBLY.....	127.0	25.4	1.25	
26	PUMP ASSEMBLY.....	127.0	22.3	2.15	
27	SCREEN ASSEMBLY.....	127.0	25.4	1.34	
74	TOP HYDROFLATE PACKER.....	177.8	26.9	2.55	1517.00
28	PORT ASSEMBLY.....	127.0		1.03	
22	BLANK ANCHOR.....	127.0	57.2	17.57	
75	LOWER HYDROFLATE PACKER.....	177.8	50.8	2.37	1537.00
97	BELLY SP W/ BLANKED OFF RECORDER		57.2	1.55	1538.76

EQUIPMENT DATA