REVISED

Drilling Authority No. 400
Date Issued January 22, 1970

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

LAND 52-80 (21 (3-70)

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.

[redacted]

JUN 24 1971

Well name and number CPOG et al LaBiche F-08

Permit No. ..... Lease No. 409-68

Shell Canada Limited (Permittee, Licensee, Lessee) Exploratory Licence No. 101

Canadian Pacific Oil & Gas Ltd. (Operator) Exploratory Licence No. 1221/69 1643/70

Location: Unit F Section 08 Grid 60 40 124 30

Latitude 60° 37' 25.685" Longitude 124° 31' 13.211"

Unique well identifier 300F086040124301

Universal Well Location Reference Lat. 60.62380° N. Long. 124.52034° W.

	DATE	DEPTH
Spudded	2/25/70	
Suspended	3/27/70	4730
Resumed Operations	1/23/71	4730
Finished Drilling	2/16/71	7300 Driller
Deepened		7302 Logger
Complete (gas/oil)		
~~Abandoned~~ Suspended	3/19/71	6520
Rig released	3/19/71	6520 PBTD

Pool(s)

Interval(s) open to production

Elevation: Gr. 4257.0 K.B. 4274.4

Rig No. 6

Drilling Contractor Nabors Drilling Ltd

Contractor's Business Licence No. 524

CASING RECORD

	Casing Size (Inches)	Grade	Weight	Amount	Set at	Sacks of Cement and Additives
1.	13 3/8"	K55	54.5#	20 jts	605	625 & 2% $CaCl_2$
2.	9 5/8"	N80	40.0#	647.04		575 sx oilwell & 12% gel
3.	9 5/8"	K55	40.0#	1107.11		& 0.8% HR, 475 sx oilwell
4.	9 5/8"	K55	36.0#	2984.42	4730	& 2% gel & 0.8% HR,
5.	7"	K55	26 ST&C	1820.21		
6.	7"	K55	23 ST&C	4622.45		
	7"	K55	23 LT&C	745.25		300 1-1 poz 2% gel +
	7"	N80	26 LT&C	118.39	7300	0.2% HR,

GEOLOGICAL TOPS

	ELEVATION Depths	Sub-Sea
B. Miss. Limestone	2892	+1382
First Blackshale	4456	-182
2nd Blackshale ??	6022	-1748
Argillaceous Ls	6377	-2103
Mid Dev Carbonate	6498	-2224

CORE RECORD

From	To	Rec.	From	To	Rec.
6512	6545	30	Drill Cuttings		
6706	6729	19	4740	7300	
SLABBED					

LOG RECORD

Run No.	Type of Log	From	To
1	Dual Ind.-Laterolog	4717	604
2	Dual Ind.-Laterolog	7296	4730
1	Dual Induction Survey	2370	604
1	Borehole Comp. Sonic	4717	604
2	Borehole Comp. Sonic	7292	4735
1	Cont. Dipmeter (Comp)	4717	3000
2	Cont. Dipmeter (Comp)	7271	4730
1	Sidewall Neutron Poro.	7297	5797
1	Density-Neut. Overlay	7297	5797
1	Formation Density Log	7296	5796
1	Cement Bond	7250	4850
1	Gamma Ray-Neutron Log	7250	6300
1	Completion Record		
1	Coriband - Synergetic Log		
	Velocity Survey		

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
3/9/71	7100		Johnson wasp bridge plug capped with 8 gallons hydromite.
3/10/71	6840		Johnson wasp bridge plug capped with 8 gallons hydromite.
3/14/71	6530		Johnson wasp bridge plug capped with 17 gallons hydromite.
3/15/71	6395		Model F IB Packer
3/23/71	6404		Baker FSG in tubing.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks	
3/8/71	7184	7188	4/ft Total 16 shots)	
	7125	7129	4/ft Total 16 shots)	48
	7110	7114	4/ft Total 16 shots)	
3/9/71	7070	7074	4/ft Total 16 shots)	
	7029	7033	4/ft Total 16 shots)	
	7008	7010	4/ft Total 8 shots)	56
	6984	6988	4/ft Total 16 shots)	
3/10/71	6764	6772	4/ft Total 32 shots)	56
	6727	6733	4/ft Total 24 shots	
3/15/71	6461	6464	4/ft Total 12 shots)	
	6448	6454	4/ft Total 24 shots)	60
	6428	6432	4/ft Total 16 shots	
	6422	6424	4/ft Total 8 shots)	

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
NO STIMULATION USED			Filled Tubing with Inhibited Diesel Fuel, chained and locked wellhead. Well Suspended

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	2/19/71	Hidden Carb.	7060	7300	60	60	60	------	------	------	------	2940	2940	No Pressure(Plugging) Rec: 385'water cut mud
2	2/21/71	Mid.Dev.Carb	6420	6516	75	60	60	1790	1790	1050	1220	2940	2940	Rec: 1385' black sulp. gas cut water. GTS in 3mi
3	2/22/71	Mid.Dev.Carb.	6420	6475	120	60	60	1790	1790	900	1100	2940	2940	Rec: 545' black sulp. gas cut water GTS in 2 mi
4	2/22/71	Mid.Dev.	7055	7150	150	60	24	2000	2000	550	1800	3050	3050	Rec: 90' black sulphurous water cut drlg mud
5	3/9/71	Mid.Dev. Carb.	7110	7188	90	60	60	2300	2000	870	1980	3000	3000	Rec: 4370' black sulp. gassy salt water
6	3/9/71	Mid.Dev.Carb	6984	7074	90	60	90	1962	1960	1400	1960	2960	2960	Rec: 4465' slightly gassy black sulp. salt water
7	3/10/71	Mid.Dev.Carb	6727	6772	120	60	90	1850	1850	740	1850	2830	2830	Rec: 4200' black sulphurous slightly gas cut water.

Pressures reported are Field Readings

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
C71-2973-4	Water	7060	7300	DST #1 (M.F.E.)	
C71-2938-3	Water	6420	6516	DST #2(bottom)	
C71-2939-3	Water	6420	6475	DST #3(bottom)	
C71-3002-5	Water	7110	7188	DST #5 (M.F.E.)	
C71-3003-5	Water	6984	7074	DST #6 (M.F.E.)	
C71-3001-7	Water			Stock Tank	Run #4
F71-2115-1	Water	6727	6772	Swab 52	
F71-2115-2	Water	6727	6772	Swab 53	
F71-2115-3	Water	6727	6772	Bttm of Tubing	
C71-3019	Water				
C71-2823-1	Gas	6420	6516	Flareline DST #2	
C71-2823-2	Gas	6420	6575	Flareline DST #3	
C71-2877	Gas			Meter Run Separator	
913-158	Core	6512	6545	Core #1	

PRESENT STATUS OF WELL

Oil		(Interval.)
Gas		(Interval.)
Dry		
Susp.	Gas	6530-6395

Company Canadian Pacific Oil and Gas Limited

Signed by E.R. Stevenson

Title Drilling Operations Superintendent

Date June 23, 1971

Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.

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[redacted]

651-11-4-12

CPOG et al LaBiche #F-08

60° 37' 25.685" North Lat.
124° 31' 13.211" West Long.

WELL HISTORY REPORT

WELL HISTORY REPORT

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
SEP 7 1972
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

C.P.O.G. ET AL LaBICHE F-08

LaBICHE RANGE - LIARD PLATEAU

LAT. 60° 37' 25.685" NORTH
LONG. 124° 31' 13.211" WEST

NORTHWEST TERRITORIES

PHASE II

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
SEP 7 1972
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

CANADIAN PACIFIC OIL AND GAS LIMITED

C. R. Thomson
Drilling Operations Superintendent

June 23, 1971

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SECTION I

SUMMARY OF WELL DATA

SECTION I - Summary of Well Data

NOTE: THE FOLLOWING REPORT CONSTITUTES THE SECOND PHASE OF DRILLING, FROM 4730' TO 7300', BEGUN JANUARY 24, 1971 AND COMPLETED.

PHASE I, FROM SURFACE TO 4730' WAS DRILLED IN THE WINTER OF 1969-70 TO A DEPTH OF 4730', LOGGED, CASED AND SUSPENDED ON MARCH 23, 1970 BECAUSE OF SPRING BREAK-UP.

Well Name: CPOG et al LaBiche F-08

Permittee, Licencee or Lessee: Shell Canada Limited

Name of Operator: Canadian Pacific Oil and Gas Limited
205 Ninth Avenue S. E.
Calgary 21, Alberta

Location: Grid Area - 60—40 North Latitude
124—30 West Longitude
N.T.S. - 95C, Northwest Territories

Universal Well Location Reference: Lat. 60.62386°, Long. 124.52034°

Unique Well Identifier: 300F086040124301

Co-ordinates: Latitude - 60° 37' 25.685" N.
Longitue - 124° 31' 13.211" W.

Lease Number: 409-68

Drilling Contractor: Nabors Drilling Ltd.
Rig #10, National 58
Toolpush - Mr. Larry Loewen (Phases I and II)

Drilling Authority: #400 Issued January 22, 1970

Classification: Wildcat

Elevations: Ground - 4257.0'
Kelly Bushing - 4274.4'

Resumed Drilling: January 23, 1971

Completed Drilling: February 16, 1971 **Rig Released:** March 19, 1971

Total Depth: 7300 feet Driller
7302 feet Logger

Well Status:	Suspended Gas Well
Rig Released Date:	March 19, 1971
Hole Sizes to Total Depth:	1. Surface - 17-1/2" (605') 2. Intermediate - 12-1/4" (606' - 4730') 3. Remainder - 8-3/4" (4730' - 7300')
Casing:	Surface Hole: 13-3/8" Landed at 605' K.B. Cemented with 625 sacks, plugs 2% $CaCl_2$. Intermediate: 9-5/8" Landed at 4730' K.B. Cemented 570 sacks plus 12% Gel & 0.8% HR7, and 475 sacks plus 2% Gel & 0.8% HR7. Production: 7" Landed at 7300' K.B. Cemented with 300 bags 1-1 poz, 2% Gel & 0.2% HR4.

SECTION II

GEOLOGICAL SUMMARY

SECTION II - GEOLOGICAL SUMMARY

(a) Formation Tops

STRATIGRAPHY

Formation Tops	Elevation Sample & E-Log	Sub-sea
Mississippian		
Base Mississippian Limestone	2892	+1382
1st Black Shale	4456	- 182
2nd Black Shale ??	6022	-1748
Middle Devonian		
Argillaceous Limestone	6377	-2103
Carbonate	6498	-2224

SECTION II - GEOLOGICAL SUMMARY

(b) Cored Intervals

	Formation	Interval	Cut	Rec
#1	Middle Devonian Carbonate	6512 - 6545	33'	30'
#2	Middle Devonian Carbonate	6706 - 6729	23'	19'

(c) Core Descriptions

CORING TIMES

Core #1 Interval 6512' - 6545'
Cut 33'. Recovered 30'. Diamond - 6-3/16".

Interval	Time (Mins.)	W.O.B.	Interval	Time (Mins.)	W.O.B.
6512' - 6513'	5	6,000	6529' - 6530'	6	10,000
6513' - 6514'	18		6530' - 6531'	6	
6514' - 6515'	13		6531' - 6532'	13	
6515' - 6516'	15		6532' - 6533'	8	
6516' - 6517'	10	8,000	6533' - 6534'	6	
6517' - 6518'	8		6534' - 6535'	7	
6518' - 6519'	10		6535' - 6536'	8	
6519' - 6520'	6	10,000	6536' - 6537'	7	
6520' - 6521'	6		6537' - 6538'	8	
6521' - 6522'	7		6538' - 6539'	8	
6522' - 6523'	7		6539' - 6540'	8	10,000
6523' - 6524'	3		6540' - 6541'	7	
6524' - 6525'	2		6541' - 6542'	4	
6525' - 6526'	2		6542' - 6543'	3	
6526' - 6527'	1		6543' - 6544'	4	(Connection 8 mins.)
6527' - 6528'	7		6544' - 6545'	2	(Jammed)
6528' - 6529'	7				

CORING TIMES (CONTINUED)

Core #2 Interval 6706' - 6729'
Cut 23'. Recovered 19'. Diamond - 6-3/16".

Interval	Time (Mins.)	W.O.B.	Interval	Time (Mins.)	W.O.B.
6706' - 6707'	13	6,000	6718' - 6719'	10	
6707' - 6708'	7	8,000	6719' - 6720'	8	
6708' - 6709'	6	10,000	6720' - 6721'	10	
6709' - 6710'	6		6721' - 6722'	9	
6710' - 6711'	5		6722' - 6723'	7	
6711' - 6712'	8		6723' - 6724'	8	
6712' - 6713'	7		6724' - 6725'	8	
6713' - 6714'	8		6725' - 6726'	7	
6714' - 6715'	7		6726' - 6727'	5	
6715' - 6716'	7		6727' - 6728'	5	
6716' - 6717'	7		6728' - 6729'	1	
6717' - 6718'	8		6729' - 6730'	Jamming	

CORE DESCRIPTIONS

Core #1 — 6512' - 6545'
Cut 33'. Recovered 30'. Lost 3'.
6-3/16" Diamond.

6512' - 6523.2' — 11.2'
Limestone; light grey, crypto-crystalline, massive, very slightly argillaceous, slightly silty.
Entire interval laced with one-half inch to hairline white calcite infilled fractures, vertical, horizontal and diagonal.
Traces odd hairline stylolite.
Traces odd patch of concentrated pellitoidal debris, infilled with calcite.
TIGHT.

6523.2' - 6524.3' — 1.1'
Calcite; white, massive, cubic cleavage, and striations.

6524.3' - 6527.0' — 2.7'
Shale; black, silty.
Conspicuous diagonal band of calcite infilled fossil debris.
Scattered calcite infilled possible fossil fragments throughout.

6527.0' - 6543.0' — 15'
Limestone; light grey, crypto-crystalline, massive, very slightly argillaceous, slightly silty.
Odd traces calcite infilled pellitoidal debris.
Entire interval laced with one-half inch to hairline white calcite infilled fractures, vertical, horizontal and diagonal.
Few scattered calcite infilled blebs, one-half inch or better.
Bottom four to six inches, calcite/limestone rubble zone.
TIGHT.

CORE DESCRIPTIONS (CONTINUED)

Core #2

6706' - 6729'
Cut 23'. Recovered 19'. Lost 4'.
6-3/16" Diamond.

6706.0' - 6706.7'

.7'
Limestone; grey, crypto-crystalline.
Few scattered diagonal to small fractures, completely infilled with calcite.

6706.7' - 6714.1'

7.4'
Dolomite; grey, matrix, fine to medium crystalline, not fully developed, merging with matrix.
Entire interval fossiliferous, Algal zone, dolomitized and infilled in part with white calcite.
Fossiliferous material occurs as concentrated bands or zones, alternating with matrix material.
Fossil structures dolomitized and calcite infilled.
Few scattered fine horizontal stylolites, infilled with black heavy pyrobituminous material.
Few scattered hairline fractures, calcite infilled.
5.5' from top of interval, two large vugs, partially infilled with calcite, vug centers infilled with heavy black pyrobituminous material. TIGHT.
Entire interval TIGHT.

6714.1' - 6719.3'

5.2'
Dolomite; grey, crystalline, fine to medium, not fully developed, merging with matrix.
Interval contains few scattered white blebs dolomitized fossil fragments or debris.
Few scattered horizontal hairline stylolites, infilled with black pyrobituminous material.
Black pyrobituminous material throughout on crystal faces and infilling scattered former pinpoint porosity.
Entire interval TIGHT.

6719.3' - 6725.0'

5.7'
Dolomite; Algal zone, white to grey, crystalline, fine to medium, not fully developed, merging into matrix material.
Entire interval dolomitized and calcite infilled.
Few scattered horizontal stylolites, infilled with black pyrobituminous material.
Black pyrobituminous material throughout on crystal faces and infilling scattered former pinpoint porosity.
Entire interval TIGHT.

(d) Sample Descriptions

SAMPLE DESCRIPTIONS

4730' - 4740'	Shale; dark grey to black, sub-fissile, traces light colored chert, traces pyrite, laminated in part.
4740' - 4750'	Shale; dark grey to black, sub-fissile, traces pyrite, disseminated, traces micro-calcite blebs.
4750' - 4760'	Shale; dark grey to black, sub-fissile, traces disseminated pyrite blebs and free pyrite, traces micro-blebs calcite.
4760' - 4770'	Shale; as above.
4770' - 4780'	Shale; as above.
Trip at 4800'	Geolograph, samples 4790', 4800' left in hole.
4780' - 4790'	Shale; dark grey to black, sub-fissile, traces free pyrite, traces widely disseminated white calcite blebs (secondary).
4790' - 4800'	Shale; as above, traces limonite, micro-laminated in part.
4800' - 4810'	Shale; dark grey to black, as above.
4810' - 4820'	Shale; dark grey to black, sub-fissile in part, traces free pyrite.
4820' - 4830'	Shale; dark grey to black, as above.
4830' - 4840'	Shale; dark grey to black, sub-fissile, traces micro-blebs calcite (secondary), pyrite, free and disseminated specks, micro-laminated in part.
4840' - 4850'	Shale; dark grey to black, as above, traces light and dark chert, traces laminated pyrite.
4850' - 4860'	Shale; dark grey to black, sub-fissile, traces pyrite free and disseminated specks, traces micro-blebs calcite (secondary), laminated in part.
4860' - 4870'	Shale; dark grey to black, as above.
4870' - 4880'	Shale; dark grey to black, as above.
4880' - 4890'	Shale; dark grey to black, sub-fissile, traces free pyrite and disseminated specks, traces micro-blebs calcite (secondary).
4890' - 4900'	Shale; as above, numerous free pyrite and disseminated pyrite specks and blebs.
4900' - 4910'	Shale; dark grey to black, as above.
4910' - 4920'	Shale; dark grey to black, as above.

SAMPLE DESCRIPTIONS (CONTINUED)

4920' - 4930'	Shale; dark grey to black, sub-fissile, pyrite, free and disseminated specks and blebs.
4930' - 4940'	Shale; dark grey to black, sub-fissile, traces free pyrite and fine micro-blebs and specks of pyrite disseminated throughout.
4940' - 4950'	Shale; dark grey to black, as above.
4950' - 4960'	Shale; dark grey to black, as above. N.B. - light colored material, mud-chemical additives (Gel), traces calcite, micro-blebs (secondary).
4960' - 4970'	Shale; dark grey to black, as above. N.B. - light colored material, mud-chemical additives (Gel), calcite, disseminated throughout (secondary).
Trip at 4979'	
4970' - 4980'	Shale; dark grey to black, sub-fissile, traces free pyrite and widely disseminated specks and blebs of pyrite, traces micro-blebs calcite.
4980' - 4990'	Shale; dark grey to black, as above, limy in part.
4990' - 5000'	Shale; as above.
5000' - 5010'	Shale; dark grey to black, sub-fissile, traces pyrite, free and widely disseminated "specks" and micro-blebs, limy in part, traces calcite (secondary).
5010' - 5020'	Shale; dark grey to black, sub-fissile, traces widely disseminated pyrite "specks" and fine blebs.
5020' - 5030'	Shale; dark grey to black, as above, traces limonite.
5030' - 5040'	Shale; dark grey to black, as above.
5040' - 5050'	Shale; dark grey to black, sub-fissile, traces pyrite, free and widely disseminated "specks" and micro-blebs.
5050' - 5060'	Shale; dark grey to black, as above.
5060' - 5070'	Shale; dark grey to black, as above.
5070' - 5080'	Shale; dark grey to black, sub-fissile, pyrite, free and widely disseminated as micro-blebs and "specks", traces secondary calcite "specks", disseminated.
5080' - 5090'	Shale; dark grey to black, as above.
5090' - 5100'	Shale; dark grey to black, as above, traces slightly silty shale.

SAMPLE DESCRIPTIONS (CONTINUED)

5100' - 5110'	Shale; dark grey to black, as above, and silty shale; grey-black to black, limy, pyrite, as above.
5110' - 5120'	Shale; dark grey to black, sub-fissile, pyrite, free and widely disseminated as micro-blebs and "specks".
5120' - 5130'	Shale; dark grey to black, as above.
5130' - 5140'	Shale; dark grey to black, sub-fissile, pyrite, free and widely disseminated "specks" and micro-blebs.
5140' - 5150'	Shale; dark grey to black, as above.
5150' - 5160'	Shale; dark grey to black, sub-fissile, pyrite, free and with disseminated "specks" and micro-blebs throughout, traces shaly siltstone, limy, and laminated in part.
5160' - 5170'	Shale; dark grey to black, sub-fissile, pyrite, free and with disseminated "specks" and micro-blebs throughout, traces light colored chert.
Trip at 5177'	
5170' - 5180'	Shale; dark grey to black, as above.
5180' - 5190'	Shale; dark grey to black, sub-fissile, pyrite, free and disseminated as "specks" and micro-blebs throughout.
5190' - 5200'	Shale; dark grey to black, as above.
5200' - 5210'	Shale; dark grey to black, as above, traces calcite.
5210' - 5220'	Shale; dark grey to black, sub-fissile, pyrite, free and disseminated as "specks" and micro-blebs throughout.
5220' - 5230'	Shale; dark grey to black, sub-fissile, traces pyrite, free and disseminated throughout as "specks", traces limonite.
5230' - 5240'	Shale; dark grey to black, as above, traces calcite (secondary).
5240' - 5250'	Shale; dark grey to black, sub-fissile.
5250' - 5260'	Shale; dark grey to black, sub-fissile, trace pyrite, trace calcite (secondary).
5260' - 5270'	Shale; dark grey to black, sub-fissile.
5270' - 5280'	Shale; dark grey to black, sub-fissile.
5280' - 5290'	Shale; dark grey to black, sub-fissile, pyrite, free and disseminated "specks" and micro-blebs throughout.

SAMPLE DESCRIPTIONS (CONTINUED)

5290' - 5300' Shale; dark grey to black, sub-fissile, in part, calcareous or limy.

Trip at 5298'

5300' - 5310' Shale; dark grey to black, sub-fissile, pyrite, free and disseminated throughout as "specks" and micro-blebs.

5310' - 5320' Shale; dark grey to black, as above.

5320' - 5330' Shale; as above.

5330' - 5340' Shale; dark grey to black, sub-fissile.

5340' - 5350' Shale; dark grey to black, sub-fissile, pyrite, free and disseminated throughout as micro-blebs and "specks", traces calcite, secondary.

5350' - 5360' Shale; dark grey to black, as above.

5360' - 5370' Shale; dark grey to black, sub-fissile, traces free pyrite, traces disseminated pyrite "specks" and micro-blebs, calcareous or limy.

5370' - 5380' Shale; dark grey to black, as above.

5380' - 5390' Shale; dark grey to black, as above.

5390' - 5400' Shale; dark grey to black, sub-fissile, traces free pyrite, traces calcite, secondary.

5400' - 5410' Shale; dark grey to black, as above, pyrite, free and disseminated throughout as "specks" and micro-blebs, traces calcite, secondary, limy.

5410' - 5420' Siltstone; quartzitic, fine grained, angular to subround, well sorted, very argillaceous to shaly in part, limy.

5420' - 5430' Siltstone; as above, and
Shale; dark grey to black, sub-fissile, pyrite.

5430' - 5440' Shale; dark grey to black, sub-fissile, pyrite, free and disseminated throughout as "specks" and micro-blebs.

5440' - 5450' Shale; dark grey to black, as above.

5450' - 5460' Chert; light colored, quartzitic in part, siliceous, shale partings, calcite.

Trip at 5469'

5460' - 5470' Shale; dark grey to black, sub-fissile, pyrite, free and disseminated as "specks" and micro-blebs, traces calcite, secondary.

SAMPLE DESCRIPTIONS (CONTINUED)

5470' - 5480'	Chert; light colored, quartzitic matrix, siliceous, traces calcite, shale partings.
5480' - 5490'	Shale; dark grey to black, sub-fissile, traces pyrite.
5490' - 5500'	Chert; light colored, quartzitic matrix, siliceous, traces calcite, shale partings.
5500' - 5510'	Shale; dark grey to black, sub-fissile, traces pyrite and calcite, secondary.
5510' - 5520'	Shale; dark grey to black, sub-fissile, traces pyrite.
5520' - 5530'	Shale; dark grey to black, sub-fissile, traces pyrite.
5530' - 5540'	Shale; dark grey to black, sub-fissile, traces pyrite.
5540' - 5550'	Shale; dark grey to black, sub-fissile, traces disseminated pyrite "specks".
5550' - 5560'	Shale; dark grey to black, sub-fissile, traces disseminated pyrite "specks".
5560' - 5570'	Shale; dark grey to black, sub-fissile.
5570' - 5580'	Shale; as above, and Sandstone; quartzitic, siliceous, cherty, traces pyrite and shale partings.
5580' - 5590'	Shale; dark grey to black, sub-fissile.
5590' - 5600'	Shale; dark grey to black, sub-fissile, traces calcite, secondary.
5600' - 5610'	Shale; dark grey to black, sub-fissile.
5610' - 5620'	Shale; dark grey to black, calcareous in part, traces calcite, secondary.
5620' - 5630'	Shale; dark grey to black, slightly calcareous or limy in part, traces pyrite.
5630' - 5640'	Shale; dark grey to black, sub-fissile, very slightly calcareous or limy, traces pyrite.
5640' - 5650'	Shale; grey to black, and Siltstone; quartzitic, fine grained, angular to subround, well sorted, grading shaly to very argillaceous, traces pyrite, limy in part.
5650' - 5660'	Shale; grey to black, and Siltstone; as above.

SAMPLE DESCRIPTIONS (CONTINUED)

5660' - 5670' Shale; dark grey to black, very pyritic, occuring as disseminated crystals, free pyrite "specks" and micro-blebs.

5670' - 5680' Shale; dark grey to black, sub-fissile, pyritic, occuring as disseminated free "specks" and micro-blebs, and Siltstone; quartzitic, angular to subround, well sorted, shaly to very argillaceous, slightly limy.

5680' - 5690' Siltstone; quartzitic, fine grained, angular to subround, well sorted, siliceous in part, shaly or very argillaceous in part, traces pyrite, slightly calcareous or limy.

5690' - 5700' Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs.

5700' - 5710' Shale; dark grey to black, as above.

5710' - 5720' Shale; grey to black, sub-fissile, pyrite.

5720' - 5730' Shale; grey to black, sub-fissile, pyrite, free and disseminated throughout as "specks" and micro-blebs, trace pyritized crinoid stem (?).

5730' - 5740' Shale; dark grey to grey, pyrite, free and disseminated throughout as "specks" and micro-blebs.

5740' - 5750' Shale; dark grey to black, pyrite, free and disseminated throughout as "specks" and micro-blebs.

Trip at 5764'

5750' - 5760' Shale; dark grey to black, as above.

5760' - 5770' Shale; dark grey to black, pyrite, free and disseminated throughout as "specks", micro-blebs and crystals.

5770' - 5780' Shale; grey to black, traces pyrite, traces siltstone.

5780' - 5790' Shale; grey to black, traces pyrite, free and disseminated as "specks" and micro-blebs, traces calcite.

Trip at 5796'

5790' - 5800' Shale; black, as above, and
Chert; dark colored, siliceous in part, shale partings, pyrite.

5800' - 5810' Shale; dark grey to black, pyritic, and
Chert; dark and light colored, siliceous in part, shale partings in part.

5810' - 5820' Siltstone; dark grey to black, quartzitic, angular to subround, well sorted, siliceous in part, very argillaceous or shaly, limy, pyrite, secondary calcite crystals.

SAMPLE DESCRIPTIONS (CONTINUED)

5820' - 5830'	Shale; dark grey to black, pyritic, traces calcite.
5830' - 5840'	Shale; dark grey to black, sub-fissile, pyrite, very slightly silty in part.
5840' - 5850'	Shale; dark grey to black, sub-fissile, traces pyrite, free and disseminated throughout as "specks" and micro-blebs, traces calcite, secondary.
Trip at 5857'	
5850' - 5860'	Shale; dark grey to black, pyrite, free and disseminated throughout as "specks" and micro-blebs, trace calcite, secondary.
5860' - 5870'	Shale; dark grey to black, as above.
5870' - 5880'	Shale; black, pyrite, traces chert, dark to light colored, free calcite (white), secondary.
5880' - 5890'	Shale; as above, traces chert and calcite, white, secondary.
5890' - 5900'	Shale; as above, traces chert and calcite stringers, secondary.
Trip at 5906'	
5900' - 5910'	Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs, traces calcite, secondary.
5910' - 5920'	Shale; dark grey to black, as above, and Calcite; white, massive to slightly crystalline (likely stringer).
5920' - 5930'	Shale; black, sub-fissile in part, traces pyrite.
5930' - 5940'	Shale; black, as above, and Siltstone; quartzitic, fine grained, angular to subround, well sorted, very shaly or argillaceous, pyritic.
5940' - 5950'	Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs.
5950' - 5960'	Shale; dark grey to black, as above.
5960' - 5970'	Shale; dark grey to black, as above.
5970' - 5980'	Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs.
5980' - 5990'	Siltstone; dark grey to black, quartzitic, fine grained, angular to subround, well sorted, calcareous or limy, very argillaceous or shaly.

SAMPLE DESCRIPTIONS (CONTINUED)

5990' - 6000' — Shale; dark grey to black, pyrite, free and disseminated throughout as "specks" and micro-blebs.

6000' - 6010' — Shale; dark grey to black, as above.

6010' - 6020' — Shale; dark grey to black, pyrite, free and disseminated throughout as "specks" and micro-blebs.

6020' - 6030' — Shale; dark grey to black.

6030' - 6040' — Shale; as above, and
Siltstone; trace quartzitic, dark grey, angular to subround, well sorted, shaly or very argillaceous, slightly limy or calcareous.

6040' - 6050' — Shale; dark grey to black, traces pyrite and calcite, secondary.

6050' - 6060' — Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs, traces siltstone.

6060' - 6070' — Shale; dark grey to black, pyritic, free and disseminated throughout as "specks" and micro-blebs.

Trip at 6080'

6070' - 6080' — Shale; dark grey to black, pyrite, free and disseminated as "specks" and micro-blebs.

6080' - 6090' — Shale; dark grey to black, as above.

6090' - 6100' — Shale; dark grey to black, pyritic, free and disseminated throughout as "specks" and micro-blebs, traces calcite, secondary.

Trip at 6110'

6100' - 6110' — Shale; dark grey to black, as above.

6110' - 6120' — Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs.

6120' - 6130' — Shale; dark grey to black, as above.

6130' - 6140' — Shale; dark grey to black, pyrite, free and disseminated as "specks" and micro-blebs, micro-blebs of calcite, secondary, in part.

6140' - 6150' — Shale; dark grey to black, pyrite, free and disseminated as "specks" and micro-blebs.

6150' - 6160' — Shale; dark grey to black, as above.

SAMPLE DESCRIPTIONS (CONTINUED)

6160' - 6170'	Shale; dark grey to black, as above.
6170' - 6180'	Shale; dark grey to black, as above.
6180' - 6190'	Shale; dark grey to black, pyrite, free and disseminated as "specks" and micro-blebs, traces siltstone.
6190' - 6200'	Shale; dark grey, pyrite, disseminated as "specks", limy, calcareous "specks" and micro-blebs in part.
6200' - 6210'	Shale; dark grey, as above.
6210' - 6220'	Shale; dark grey, pyrite, disseminated as "specks", limy, calcareous "specks" and micro-blebs in part.
6220' - 6230'	Shale; dark grey, as above.
6230' - 6240'	Shale; dark grey, as above, and traces siltstone, quartzitic, dark grey, angular to subround, well sorted, limy, shaly or very argillaceous.
6240' - 6250'	Shale; dark grey to black, limy, pyritic, free and disseminated as "specks" and micro-blebs, pyritized stromatoporoid fragment (?), shale, very limy or calcareous in part.
6250' - 6260'	Shale; dark grey to black, limy, pyritic, calcite "specks" in part.
6260' - 6270'	Shale; dark grey to black, as above.
6270' - 6280'	Shale; dark grey to black, pyritic, free and disseminated as "specks" and micro-blebs, limy or calcareous in part, traces calcite "specks" and laminae (secondary).
6280' - 6290'	Shale; dark grey to black, as above.
6290' - 6300'	Shale; dark grey to black, as above.
6300' - 6310'	Shale; dark grey to black, limy, traces free pyrite.
6310' - 6320'	Shale; dark grey to black, limy, traces free pyrite, calcareous in part.
6320' - 6330'	Shale; dark grey to black, limy, traces pyrite, calcareous in part, traces calcite "specks" throughout.
6330' - 6340'	Shale; dark grey to black, as above, traces limestone, very shaly or very argillaceous in part.
6340' - 6350'	Shale; dark grey to black, limy, traces pyrite.
Trip at 6362'	

SAMPLE DESCRIPTIONS (CONTINUED)

6350' - 6360'	Shale; dark grey to black, limy, traces pyrite.
6360' - 6370'	Shale; dark grey to black, slightly limy, traces pyrite, and Calcite; white, massive, laminated.
6370' - 6380'	Limestone; white to "dirty white", very shaly, silty, traces pyrite, calcite.
6380' - 6390'	Limestone; "dirty white", massive, very argillaceous or shaly, traces pyrite, calcareous in part, traces fossil fragments, crinoid stem or tentaculites (?).
6390' - 6400'	Limestone; light "dirty" grey, massive, argillaceous to slightly shaly in part, traces pyrite, traces fossil debris.
6400' - 6410'	Limestone; grey to dark "dirty" grey, massive, argillaceous to shaly, traces calcite micro-blebs and micro-laminae, traces pyrite.
6410' - 6420'	Limestone; grey to dark grey, "dirty", massive, argillaceous to shaly, traces calcite, micro-laminae, traces pyrite.
6420' - 6430'	Limestone; grey to dark grey, massive, argillaceous, traces calcite, traces pyrite.
6430' - 6440'	Limestone; grey to dark grey, massive, slightly silty, argillaceous, shaly in part, traces pyrite, traces calcite.
6440' - 6450'	Siltstone; grey to dark grey, fine grained, angular to subround, well sorted, argillaceous to shaly in part, free calcite and calcite laminae.
6450' - 6460'	Siltstone; grey to dark grey, as above, limy in part, siliceous in part.
Trip at 6476'	
6460' - 6470'	Limestone; grey to dark grey, argillaceous to shaly, massive, traces pyrite, traces calcite.
6470' - 6480'	Siltstone; grey to dark grey, limy, angular to subround, well sorted, argillaceous to shaly, traces pyrite and calcite.
6480' - 6490'	Limestone; grey to dark grey, massive, argillaceous to shaly in part, slightly silty, traces pyrite and calcite.
6490' - 6500'	Limestone; light grey to dark grey, massive, dense, argillaceous, silty, and Calcite; white, massive, striations.
6500' - 6510'	Limestone; grey to buff-grey, oolitic-pellitoidal to fragmental in part, traces dolomite crystalline, free calcite, calcite infilled micro-fractures and fossil structures, trace fossil fragments.

SAMPLE DESCRIPTIONS (CONTINUED)

6512' - 6545'	Core #1. Cut 33'. Recovered 30'.
6545' - 6550'	Limestone; grey to dark grey, crypto-crystalline matrix, slightly silty, traces stromatopore fragment (?), calcite, drusy and free throughout.
6550' - 6560'	Limestone; dark grey, crypto-crystalline, as above, and Chert; dark grey, siliceous, quartzitic in part.
6560' - 6570'	Chert; light and dark colored, quartzitic, siliceous in part.
6570' - 6580'	Limestone; grey to dark grey, crypto-crystalline, and Calcite; white, massive, cubic cleavage, striations.
6580' - 6590'	Limestone; grey to light black, massive, argillaceous, slightly silty, calcite, free, blebs and infilling micro-fractures.
6590' - 6600'	Limestone; grey to light black, massive, argillaceous, slightly silty, traces pyrite, some calcite.
6600' - 6610'	Limestone; grey to light black, as above.
6610' - 6620'	Limestone; grey to light black, massive, argillaceous, silty, pyrite.
6620' - 6630'	Limestone; grey to black, massive, argillaceous, slightly silty, shaly in part.
6630' - 6640'	Limestone; grey to dark grey, massive, argillaceous, slightly silty, traces calcite.
6640' - 6650'	Limestone; grey to dark grey, massive, argillaceous to slightly shaly in part, traces pyrite.
6650' - 6660'	Limestone; grey to dark grey, massive, slightly argillaceous to shaly in part, slightly silty, traces pyrite, traces pellitoidal material.
6660' - 6670'	Limestone; light grey to dark grey, crypto-crystalline to massive, slightly argillaceous, calcite, free and disseminated throughout.
6670' - 6680'	Dolomite; white to white-grey, crystalline, medium to fine grained, scattered heavy black pyrobituminous material, and Calcite; (40%), white, massive, tight.
6680' - 6690'	Dolomite; white to white-grey, crystalline, medium to fine crystals, scattered heavy black pyrobituminous material, tight.

SAMPLE DESCRIPTIONS (CONTINUED)

6690' - 6700'	Dolomite; white to white-grey, crystalline, medium to fine crystals, scattered heavy black pyrobituminous material, tight, some limestone.
6700' - 6706'	Dolomite; white to white-grey, as above, some limestone.
Trip at 6706'	
6706' - 6729'	Core #2. Cut 23'. Recovered 19'.
Tripped Core at 6729'	
N.B.	Began losing mud on trip into hole. Mixed mud and sawdust. Drilled from 6729' - 6740', continued losing mud. Decided to trip bit and remove jets as a precaution to plugging. Circulating and mixing mud from 6:40 p.m. until 10:00 p.m.
6730' - 6740' Poor sample - Caught in ditch.	Dolomite; grey to white, crystalline, fine to medium, scattered heavy pyrobituminous material on some crystal faces.
Trip at 6740'	
6740' - 6750' Ditch sample	Dolomite; grey to whitem crystalline, fine to medium, scattered heavy pyrobituminous material on crystal faces.
6750' - 6760' Ditch sample	Dolomite; grey to white, as above.
6760' - 6770' Ditch sample	Dolomite; grey to white, fine to medium crystalline, scattered heavy pyrobituminous material on crystal faces, cherty in part, traces of shale partings in part.
6770' - 6780' Ditch sample	Dolomite; grey to light grey, fragmental to fossiliferous in part, slightly limy, calcite.
6780' - 6790' Ditch sample	Dolomite; white, fine to medium crystalline, calcite infilling, pyrobituminous material lining crystal faces.
6790' - 6800' Ditch sample	Limestone; grey to dark grey, massive, slightly fragmental in part, argillaceous and slightly shaly in part, dolomitic, traces calcite.
6800' - 6810' Ditch sample	Limestone; grey to dark grey, dolomitic, massive to fragmental in part, pellitoidal in part, slightly argillaceous, micro-fractures infilled with calcite.
6810' - 6820'	Limestone; grey to dark grey, dolomitic, massive to fragmental in part, calcite, slightly argillaceous in part.
6820' - 6830'	Limestone; grey to dark grey, as above, and Calcite; 4' stringer, clear, cubic cleavage (drilling break and samples).

SAMPLE DESCRIPTIONS (CONTINUED)

6830' - 6840'	Limestone; grey to dark grey, dolomitic, fossiliferous, fragmental in part, amphipora and stromatopora fragments, traces calcite.
6840' - 6850'	Limestone; grey to dark grey, dolomitic, fossiliferous, fragmental in part, traces stromatopora fragments, calcite.
6850' - 6860'	Limestone; as above.
6860' - 6870'	Limestone; as above, and Calcite; (50%), clear-white, striations.
6870' - 6880'	Limestone; grey to dark grey, dolomitic, very fossiliferous, fragmental, traces stromatopora an amphipora, traces calcite.
6880' - 6890'	Limestone; grey to dark grey, dolomitic, very fossiliferous, fragmental, stromatopora and amphipora, traces calcite.
6890' - 6900'	Limestone; grey to dark grey, dolomitic, very fossiliferous, fragmental, amphipora and stromatopora, calcite.
6900' - 6910'	Limestone; white-grey to dark grey, dolomitic, dolomite in part, very fossiliferous, fragmental, amphipora and stromatopora, calcite infilled, traces dolomite crystal faces, medium to fine, traces heavy black pyrobituminous material between crystal faces, tight.
6910' - 6920'	Limestone; white-grey to dark grey, dolomitic, dolomite in part, as above, tight.
6920' - 6930'	Dolomite; grey to white, medium to fine crystalline, fragmental in part, pyrobituminous material, traces calcite, free and disseminated throughout, tight.
6930' - 6940'	Limestone; dark grey, massive to fragmental in part, dolomitic, traces free calcite, dolomitic in part. (Caught after survey at 6947'.)
6940' - 6950'	Limestone; as above, and Dolomite; white to grey, medium to fine crystalline, fragmental in part, pyrobituminous material infilling between crystals.
6950' - 6960'	Limestone; dark grey, massive to fragmental in part, dolomitic, Dolomite; white to grey, medium to fine crystalline, fragmental in part, pyrobituminous material infilling between crystals.
6960' - 6970'	Limestone; grey to dark grey, massive to fragmental and fossiliferous.
6970' - 6980'	Limestone; grey to dark grey, dolomitic, fossiliferous to fragmental, pellitoidal in part.

SAMPLE DESCRIPTIONS (CONTINUED)

6980' - 6990'	Limestone; grey to dark grey, dolomitic, fossiliferous to fragmental, calcite, free.
6990' - 7000'	No sample; lost circulation at 7001', was in hole. Pumped 950 bbls.
7000' - 7010' Ditch sample	Limestone; grey to dark grey, dolomitic, fragmental in part, calcite, free.
7010' - 7020'	Limestone; grey to dark grey, dolomitic, fragmental in part, fossiliferous in part, calcite, free.
7020' - 7030'	Calcite; (100%).
7030' - 7040'	Limestone; grey to dark grey, dolomitic, fragmental in part, shaly in part, fossiliferous in part, and Calcite; clear.
7040' - 7050'	Limestone; as above, and Calcite;
7050' - 7060'	Limestone; as above, and Calcite;
Trip at 7071'	
7060' - 7070'	Dolomite; grey to white, crystalline, fine to medium, heavy black pyrobituminous material on crystal faces, tight, calcite.
7070' - 7080'	Dolomite; grey to white, as above.
7080' - 7090'	Dolomite; grey to white, as above.
7090' - 7100'	Dolomite; grey to white, crystalline, medium to fine, heavy black pyrobituminous material, traces calcite.
7100' - 7110'	Dolomite; grey to white, as above.
7110' - 7120'	Dolomite; grey to white, crystalline, medium to fine, fragmental in part, heavy black pyrobituminous material, traces calcite.
7120' - 7130'	Dolomite; grey to dark grey, as above.
7130' - 7140'	Dolomite; grey to dark grey, as above.
7140' - 7150'	Dolomite; grey to dark grey, as above.
7150' - 7160'	Dolomite; grey to dark grey, crystalline, fine to medium, fragmental in part, black heavy pyrobituminous material on crystal faces.

SAMPLE DESCRIPTIONS (CONTINUED)

7160' - 7170'	Dolomite; grey to dark grey, as above.
7170' - 7180'	Dolomite; grey to dark grey, fragmental, crystalline, fine to medium in part, heavy pyrobituminous material, traces calcite.
7180' - 7190'	Dolomite; grey to dark grey, crystalline, fine to medium to fragmental, traces calcite, and heavy black pyrobituminous material.
7190' - 7200'	Dolomite; grey to dark grey to white, crystalline, fine to medium to fragmental in part, traces calcite, traces heavy black pyrobituminous material.
7200' - 7210'	Dolomite; grey to dark grey to white, as above.
7210' - 7220'	Dolomite; grey to dark grey to white, crystalline, fine to medium to fragmental in part, heavy black pyrobituminous material.
7220' - 7230'	Dolomite; grey to dark grey, crystalline in part, medium to fine, fragmental in part, limy in part, traces microfractures, calcite infilled.
7230' - 7240'	Dolomite; as above.
7240' - 7250'	Dolomite; as above.
7250' - 7260'	Dolomite; grey to dark grey, massive to crystalline, medium to fine, slightly fragmental in part, calcite, heavy black pyrobituminous material.
7260' - 7270'	Dolomite; as above.
7270' - 7280'	Dolomite; grey to dark grey, massive to fragmental to crystalline in part, traces calcite.
7280' - 7290'	Dolomite; grey to dark grey, as above.
7290' - 7300'	Dolomite; dark grey, dense, massive, slightly limy.
7300'	Total Depth.

SECTION II - Geological Summary

(e) Paleontological Determinations

None

SECTION III

ENGINEERING SUMMARY

(a) DRILLSTEM TESTS

Pressures reported are Field Readings

DST #1 7060' - 7300' February 19, 1971

Middle Devonian Carbonate

Weak initial air blow, decreasing to nil on pre-flow.
No air blow on valve open interval.
P.F 5 minutes, I.S.I. 60 minutes, V.O. 60 minutes,
F.S.I. 60 minutes

Recovered 385' water cut mud, with a silinity of
9620 P.P.M. salt.
Tool plugged, I.H.P. 2940 F.H.P. 2940

DST #2 6420' - 6516' February 21, 1971

Middle Devonian Carbonate

Good initial air blow, gas to surface in 3 minutes
and water spray in 40 minutes.
Maximum flow rate of 3300 MCF/D.

Recovered 1385' black sulphurous gas cut water -
7700 P.P.M. salt (res. 1.5)

P.F. 5 minutes, I.S.I. 60 minutes, V.O. 120 minutes,
F.S.I. 60 minutes

I.H.P. 2940 I.S.I.P. 1790 I.F.P. 1050 Temp. 220°
F.H.P. 2940 F.S.I.P. 1790 F.F.P. 1220

DST #3 6420' - 6475' February 22, 1971

Middle Devonian Carbonate

Good initial air blow, gas to surface in 2 minutes
and water spray in 107 minutes.
Maximum flow rate of 2900 MCF/D.

Recovered 545' black sulphurous gas cut water -
7700 P.P.M. salt

P.F. 5 minutes, I.S.I. 60 minutes, V.O. 120 minutes,
F.S.I. 60 minutes

I.H.P. 2940 I.S.I.P. 1790 I.F.P. 900 Temp. 220°
F.H.P. 2940 F.S.I.P. 1790 F.F.P. 1100

DST #4 7055' - 7150' February 22, 1971

Weak initial air blow, continuing throughout test. Unable to close tool for F.S.I., due to DC being stuck. Open pump out sub, break circulation and work stuck pipe.

Recovered 90' black sulphurous water cut mud, 1900 P.P.M. salt

P.F. 2 to 5 minutes, I.S.I. 60 minutes, V.O. 150 minutes, F.S.I. 24 minutes

I.H.P. 3050 I.S.I.P. 2000 I.F.P. 550 Temp 254°
F.H.P. 3050 F.S.I.P. 2000 F.F.P. 1800

DST #5 7110' - 7188' March 9, 1971

Middle Devonian Carbonate

-As per perforation program (packer set at 7065')

Weak initial air blow, decreasing and dead in 70 minutes.

Recovered 4370' black sulphurous slightly gas cut water, 1500 P.P.M. salt (res. 3.50)

P.F. 5 minutes, I.S.I. 60 minutes, V.O. 90 minutes, F.S.I. 60 minutes

P.F. 350 I.H.P. 3000 I.S.I.P. 2300 I.F.P. 870
Temp 238° F.H.P. 3000 F.S.I.P. 2000 F.F.P. 1980

DST #6 6984' - 7074' March 9, 1971

Middle Devonian Carbonate

-As per perforation program (packer set at 6945')

Fair initial air blow, decreasing and dead in 53 minutes.

Recovered 4465' black sulphurous slightly gas cut water, 800 P.P.M. salt (res. 3.25)

P.F. 5 minutes, I.S.I. 60 minutes, V.O. 90 minutes, F.S.I. 90 minutes

P.F. 1070 I.H.P. 2960 I.S.I.P. 1960 I.F.P. 1400
Temp 256° F.H.P. 2960 F.S.I.P. 1950 F.F.P. 1960

DST #7 6727' - 6772' March 10, 1971

Middle Devonian CArbonate

-As per perforation program (packer set at 6680')

Very weak initial air blow, decreasing and dead in 103 minutes.

Recovered 4200' black sulphurous slightly gas cut water, 600 P.P.M. salt (res. 2.31)

P.F. 5 minutes, I.S.I. 60 minutes, V.O. 120 minutes, F.S.I. 90 minutes

P.F. 150 I.H.P. 2830 I.S.I.P. 1850 I.F.P. 740
Temp 256° F.H.P. 2830 F.S.I.P. 1850 F.F.P. 1850

DST #1

TECHNICAL REPORT

JOHNSTON

J & E-4B

JOHNSTON TESTERS

321 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft
Interval	7060	To 7300	T.D. 7300		Ft
Type of Test	OPEN HOLE, BOTTOM HOLE				
Time Started in Hole	0230	Hrs.	Tool Opened	0727	Hrs.
First Flow	5	Min.	Initial Shut-In	60	Min.
Second Flow	60	Min.	Second Shut in		Min.
Third Flow		Min.	Final Shut In	60	Min
Pulled Loose @	1035	Hrs	Out of Hole	1560	Hrs.
Wt. Set on Packer	40,000	=	Pulled Loose Wt	10,000	=

Description of Blow During Test: VERY WEAK INITIAL PUFF, DEAD WHEN TOOL RE-OPENED.

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered: 385' Ft

Description of Fluid Recovered:

385' WATER CUT DRILLING FLUID.

GAS BLOW MEASUREMENT

Measured With: I.D. Riser

Type of Instrument:

Time	Size Choke	Reading on Meter	M Cubic Feet Day
			NIL

REMARKS: MISRUN, SEAT FAILURE

	RESISTIVITY			CHLORIDE CONTENT	
Recovery Water	3.5 @	77	°F.	9620	ppm.
Mud Pit sample filtrate	3.95 @	77	°F	300	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
P.O. SUB	1.28	
JARS	8.65	
D.P. SUB	.86	
MFE TOOL	10.01	
BYPASS TOOL	3.85	
SAFETY JOINT	1.75	
S.S. & PACKER	9.29	7 1/2"
T.C. & PACKER	5.24	7 1/2"
TOTAL	40.93	
STUB	1.31	
PERF	5.00	
RECORDER	4.40	
RECORDER	4.40	
PERF		
SUB	.85	
DRILL COLLAR		
SUB	.84	
B.N.	1.50	
TOTAL INTERVAL	26.00	
TOTAL LENGTH	66.93	

Elevation 4274 KB 4257 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type GEL W.L. 10.2

Filter Cake 2/32 Visc. 65 Wt. 8.8

Time Taken 1800 HRS.

Contractor NABOR DRLG Rig No. 10

Drill Pipe Size 4 1/2 XH & 4 1/2 H-90

Drill Collar Size 2 7/8" I.D. Length 434.56'

Main Hole Size 8 3/4"

Rat Hole Size

District FORT ST. JOHN Ticket No. D 03932 Date FEBRUARY 19, 1971 Test No. 1 J.T. No. 1

Company CENTRAL DEL-RIO OILS LIMITED Address 205 - 9TH AVE. S.E.

Well Name CDR CPOG ET AL LA BICHE CALGARY 21, ALBERTA

Number #F-08-60°40'N 124°31'W Field W/C Province N.W.T.

Formation MIDDLE DEVONION Co. Rep. H. SPLETT

and Interval 7060 - 7300 DST#1 Technician S. JANZ

Distribution of Reports:

13 - CALGARY

JT-1aE-59

JOHNSTON TESTERS 321 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03932

PRESSURE DATA

INSTRUMENT No.		AK1-2027	AK1-2107
CAPACITY psig		4350	4600
INSTRUMENT DEPTH FT.		7056	7070
INSTRUMENT OPENING		OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.			
WELL TEMP. °F.		256	
INITIAL HYDROSTATIC	A	3174#	3185#
FIRST FLOW	B		
	B-1	1988#	2008#
INITIAL SHUT-IN	C		
SECOND FLOW	D		
	D-1	MISRUN. PLUGGED TOOL.	
SECOND SHUT-IN	E		
THIRD FLOW	F		
	F-1		
FINAL SHUT-IN	G		
FINAL HYDROSTATIC	H	3160#	3179#

FLUID SAMPLE REPORT

Sample No.

Type

Depth 2050 ft.

Volume

Sample Pressure:

54 psig. at Surface

Gravity API @ °F

Gas Oil Ratio Cu.Ft. bbl.

Recovery.

Cu. Ft. Gas

cc. Oil

cc. Water

cc. Mud 1850

Total Liquid cc. 1850

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

RECORDER #AK1-2027, NO PRINTS MADE.

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

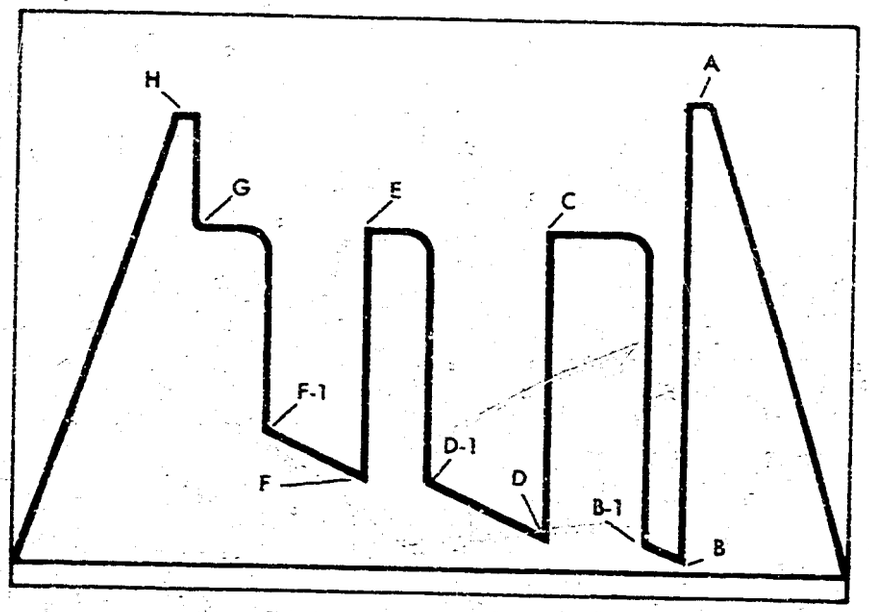
JT-1 & E-13A

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. - CALGARY 24, ALBERTA - PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

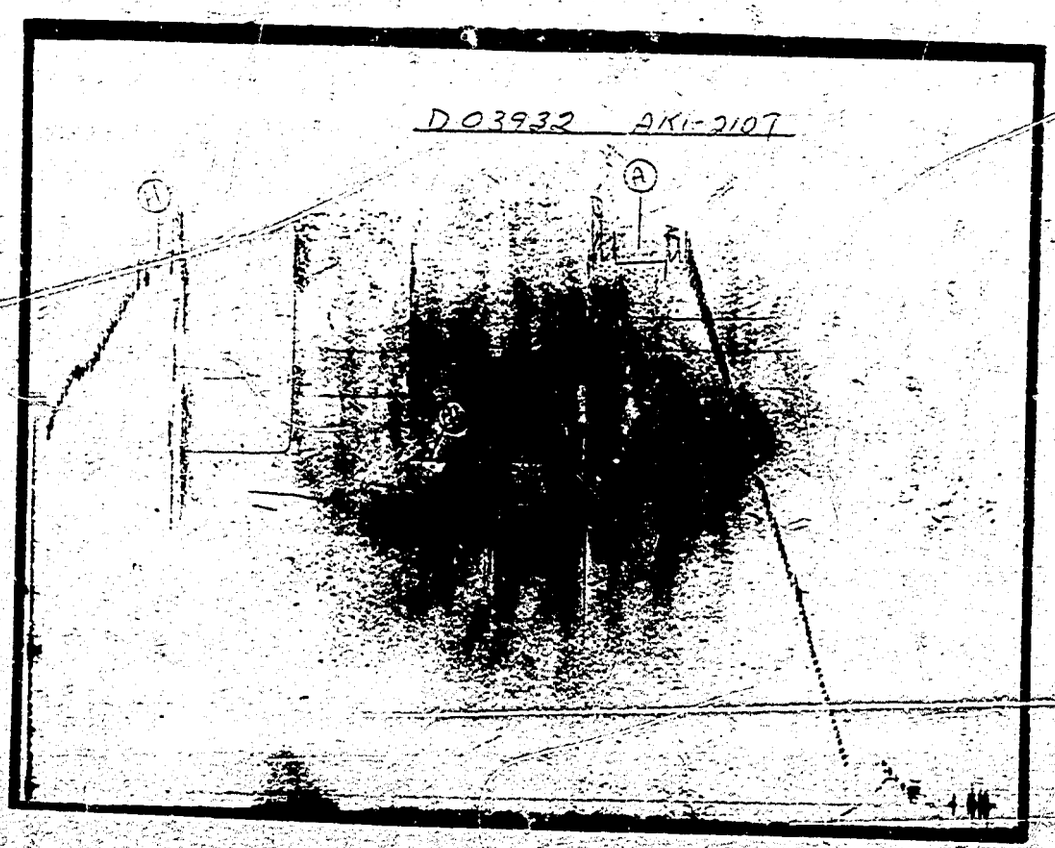
FIELD REPORT NO.	RECORDER NO.
D 03932	AK1-2107



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



DST #2

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONIAN	Zone Thickness			Ft.
Interval	6420	To 6516	T.D 7300		Ft.
Type of Test	OPEN HOLE, STRADDLE, BYPASS				
Time Started in Hole	0930	Hrs.	Tool Opened	1530	Hrs.
First Flow	5	Min.	Initial Shut-in	60	Min.
Second Flow	75	Min.	Second Shut In		Min.
Third Flow		Min.	Final Shut-in	60	Min.
Pulled Loose @	1845	Hrs.	Out of Hole	2200	Hrs.
Wt. Set on Packers	40,000	=	Pulled Loose Wt.	20,000	=

Description of Blow During Test: STRONG INITIAL BLOW, GAS TO SURFACE IN 3 MINUTES. STRONG GAS BLOW WHEN TOOL RE-OPENED WITH A FINE SALT WATER SPRAY AFTER 40 MINUTES.

FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered 1385' Ft

Description of Fluid Recovered

1385' BLACK SULPHUROUS SALT WATER.

GAS BLOW MEASUREMENT

Measured With WILLIS CHOKE I.D. Riser

Type of Instrument GAUGE

Time	Size Choke	Reading psi XXX	M Cubic Feet Day
1645	1/2"	240	1250
1700	1/2"	400	2010
1715	1/2"	480	2600
1730	1/2"	620	3300
1745	1/2"	560	3000
1750	1/2"	550	2900

REMARKS: TEST SATISFACTORY

	RESISTIVITY		CHLORIDE CONTENT	
Recovery Water	1.7 @	77 °F.	7,700	ppm.
Mud Pit sample filtrate	3.5 @	77 °F.	300	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
P.O. SUB	1.28	
JARS	8.65	
D.P. SUB		
MFE TOOL	9.22	
BYPASS TOOL	3.05	
DISC VALVE	1.84	
H. SUB	.87	
SAFETY JOINT	1.75	
S.S. & PACKER	9.29	7 1/2"
T.C. & PACKER	5.24	7 1/2"
TOTAL	42.05	
STUB	1.29	
PERF	22.07	
R. SUB	.86	
RECORDER	4.40	
RECORDER	4.40	
SUB	.87	
DRILL COLLAR	57.57	
SUB	.88	
T.C. & SUB	3.90	
TOTAL INTERVAL	96.24	
PACKER	2.70	7 1/2"
T.C. & PACKER	6.37	7 1/2"
PERF	27.03	
RECORDER	4.40	
SUB	.76	
DRILL PIPE	740.99	
SUB	.78	
B.N.	1.50	
TOTAL BELOW INTV	784.53	
TOTAL LENGTH	922.82	

Elevation 4274 KB 4257 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type GEL W.L. 8.8

Filter Cake 2/32 Visc. 75 Wt. 8.8

Time Taken 0600 HRS.

Contractor NABOR DRLG Rig No. 10

Drill Pipe Size 4 1/2 XH & 4 1/2 H90

Drill Collar Size 2 7/8" I.D. Length 464.66'

Mud Hole Size 8 3/4"

Rat Hole Size

District FORT ST. JOHN Ticket No. D 03933 Date FEBRUARY 20, 1971 Test No. 2 J.T. No. 2

Company CENTRAL DEL RIO OILS LIMITED Address 205 - 9TH AVE. S.E.

Well Name CDR CPOG ET AL LA BICHE CALGARY 21, ALBERTA

Number #F-08-60°40'N 124°31'W Field W/C Province N.W.T.

Formation MIDDLE DEVONIAN Co. Rep. H. SPLETT

and Interval 6420 - 6516 DST#2 Technician S. JANZ

Distribution of Reports

13 - CALGARY

JT-1AE-5B

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. - CALGARY 25 ALBERTA - PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03933

PRESSURE DATA

INSTRUMENT No.		AK1-2077	AK1-2107	AK1-2027
CAPACITY (psig)		4000	4600	4350
INSTRUMENT DEPTH FT		6444	6449	6552
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.				
WELL TEMP. °F.				
INITIAL HYDROSTATIC	A	2893#	2908#	2953#
FIRST FLOW	B	1021#	1046#	
	B-1	1006#	1028#	A1 3028#
INITIAL SHUT-IN	C	1749#	1757#	RAN BELOW
SECOND FLOW	D	874#	895#	STRADDLE
	D-1	1202#	1221#	
SECOND SHUT-IN	E			A2 2648#
THIRD FLOW	F			
	F-1			A3 2926#
FINAL SHUT-IN	G	1745#	1765#	
FINAL HYDROSTATIC	H	2879#	2894#	2936#

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

FLUID SAMPLE REPORT

Sample No.:
Type:
Depth: 6398 ft.
Volume: 2500 cc

Sample Pressure:
275 psig. at Surface

Gravity: API @ °F
Gas/Oil Ratio: Cu.Ft./bbl.

Recovery:
Cu. Ft. Gas: 1 1/10
cc. Oil:
cc. Water: 15
cc. Mud:
Total Liquid cc.: 15

PRESSURE INCREMENTS ON RECORDER #AK1-2077

INITIAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T-\Delta t}{\Delta t}$
0	1005.7	----
5	1746.4	2.00
10	1746.9	1.50
15	1747.4	1.33
20	1747.9	1.25
25	1748.2	1.20
30	1748.4	1.17
35	1748.4	1.14
40	1748.5	1.13
45	1748.5	1.11
50	1748.6	1.10
55	1748.6	1.09
60	1748.7	1.08

FINAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$ =
0	1201.7	----
5	1743.2	17.00
10	1744.7	9.00
15	1744.7	6.33
20	1744.7	5.00
25	1744.7	4.20
30	1744.7	3.67
35	1744.7	3.29
40	1744.7	3.00
45	1744.7	2.78
50	1744.7	2.60
55	1744.7	2.45
60	1744.7	2.33

POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$

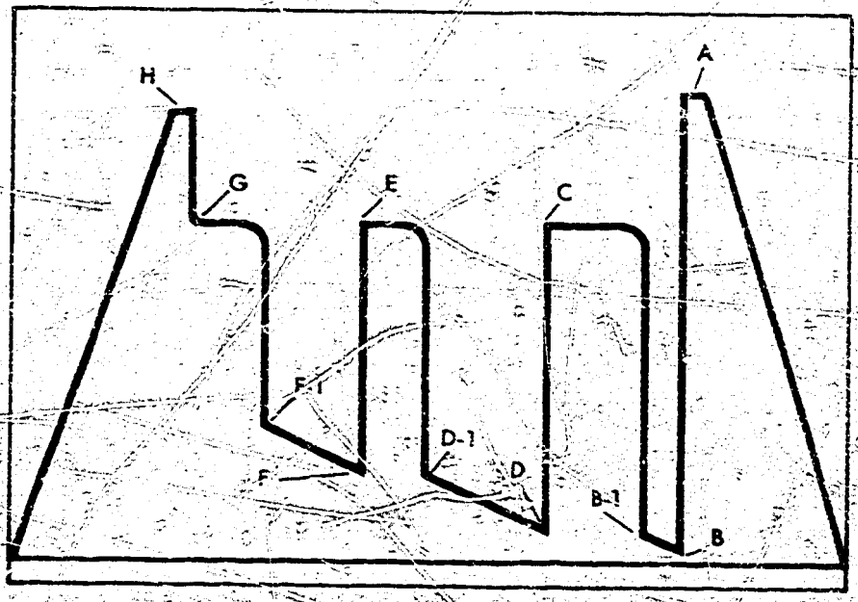
JT-1 & E-13A

JOHNSTON TESTERS 321 - 30TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 255-1151
A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO. D 03933

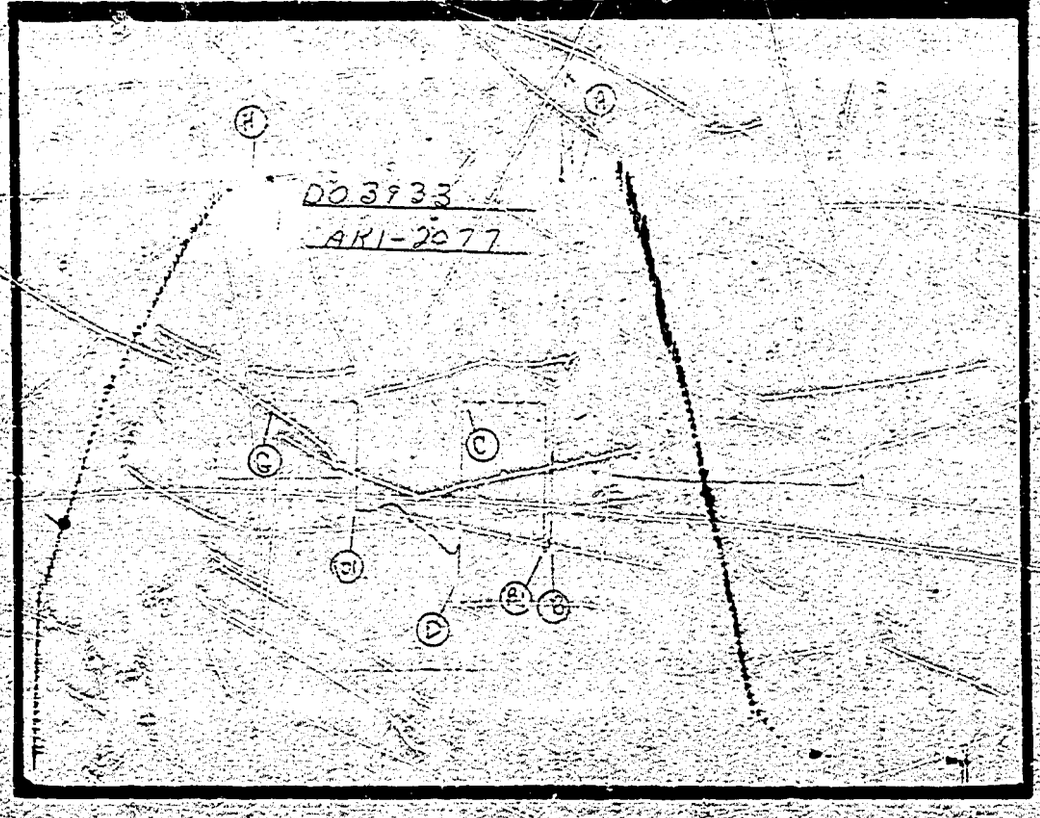
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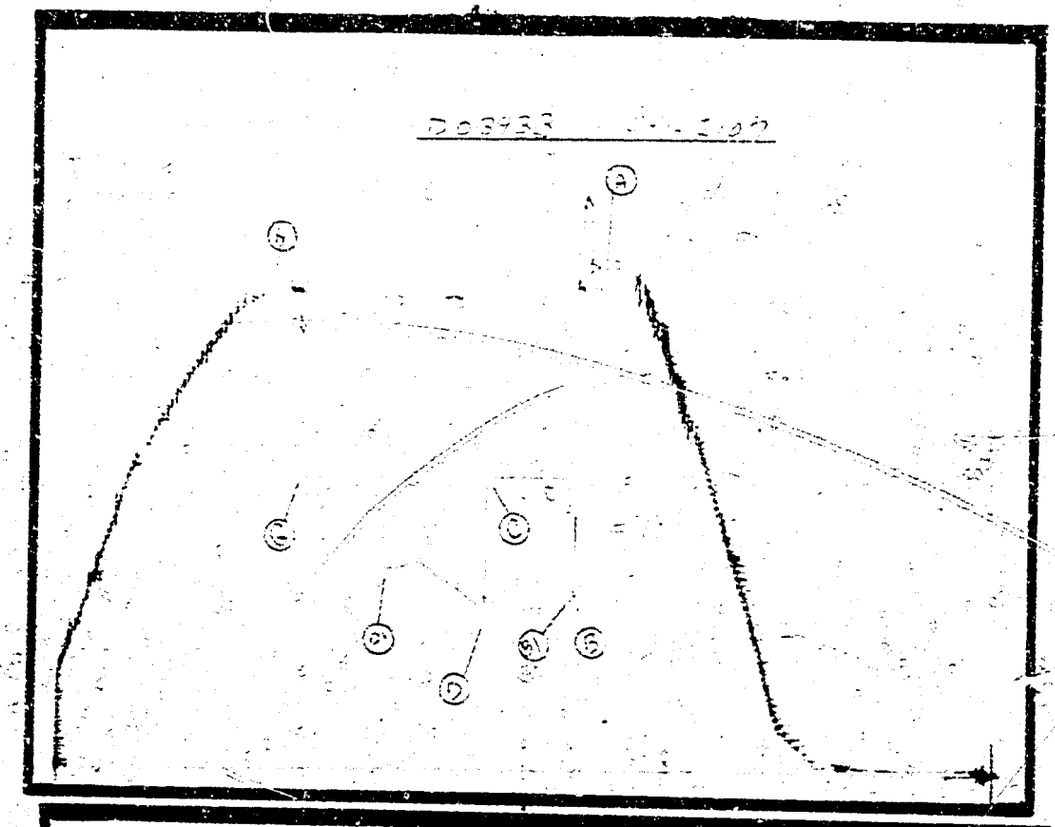


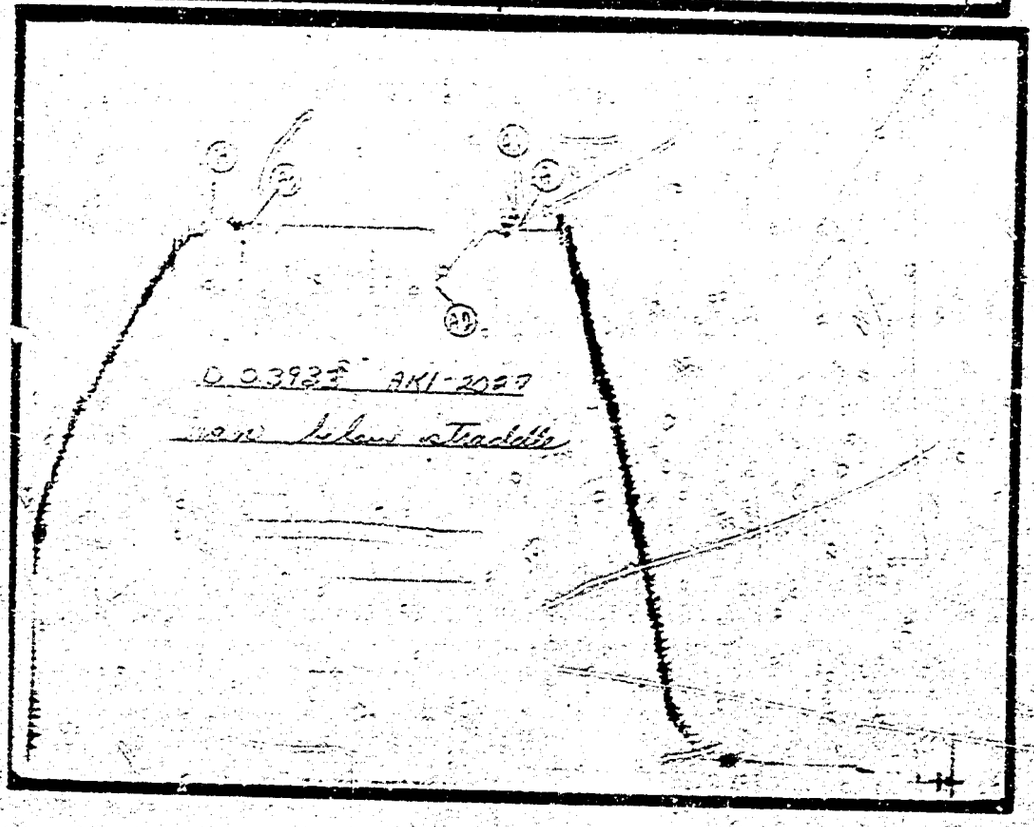
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.






D.03923 AKI-2027
Dave Nelson Studebaker

DST #3

TECHNICAL REPORT

JOHNSTON

JT. 10E 4B

JOHNSTON TESTERS

321 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft.
Interval	6420	To 6475	T.D. 7300		Ft.
Type of Test	OPEN HOLE, STRADDLE, BYPASS				
Time Started in Hole	0200	Hrs.	Tool Opened	0643	Hrs.
First Flow	5	Min.	Initial Shut-in	60	Min.
Second Flow	120	Min.	Second Shut-In		Min.
Third Flow		Min.	Final Shut-in	60	Min.
Pulled Loose @	1048	Hrs.	Out of Hole	1530	Hrs.
Wt. Set on Packers	40,000	#	Pulled Loose Wt.	20,000	#

Description of Blow During Test: GOOD INITIAL BLOW, GAS TO SURFACE IN 2 MINUTES. STRONG GAS BLOW WHEN TOOL RE-OPENED. SALT WATER SPRAY AFTER 107 MINS, SHUT-IN AFTER 120 MINUTES.

FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☐

Total Fluid Recovered: 545' Ft

Description of Fluid Recovered:
545' OF BLACK SULPHUROUS GASSY SALT WATER.

GAS BLOW MEASUREMENT

Measured With: WILLIS CHOKE I.D. Riser

Type of Instrument: GUAGE - BACK PRESSURE

Time	Size Choke	Reading psi	M Cubic Feet Day
0800	1/2"	400	2010
0815	1/2"	500	2510
0830	1/2"	520	2750
0845	1/2"	530	2750
0900	1/2"	530	2800
0915	1/2"	530	2800
0930	1/2"	540	2900 H2O AT 0935
0945	1/2"	560	2950

REMARKS: TEST SATISFACTORY

	RESISTIVITY			CHLORIDE CONTENT	
Recovery Water	2.4 @	77	°F	7,700	ppm.
Mud Pit Sample filtrate	3.5 @	77	°F	300	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
P.O. SUB	1.28	
JARS	8.65	
D.P. SUB	.86	
MFE TOOL	9.22	
BYPASS TOOL	3.05	
DISC VALVE	1.84	
H. SUB	.87	
SAFETY JOINT	1.75	
S.S. & PACKER	9.29	7 1/2"
T.C. & PACKER	5.24	7 1/2"
TOTAL	42.05	
STUB	1.29	
PERF	8.00	
R. SUB	.86	
RECORDER	4.40	
RECORDER	4.40	
SUB	.87	
DRILL COLLAR	30.62	
SUB	.88	
T.C. & SUB	3.90	
TOTAL INTERVAL	55.22	
PACKER	2.70	7 1/2"
T.C. & PACKER	6.37	7 1/2"
PERF	33.03	
RECORDER	4.40	
SUB	.76	
DRILL PIPE	771.82	
SUB	.74	
C.N.	1.50	
TOTAL BELOW INTV	825.32	
TOTAL LENGTH	922.59	

Elevation: 4274 KB 4257 GL

Bottom Hole Choke Size: 1/2"

Fluid Cushion Type: NIL Amt.

MUD AND HOLE DATA

Mud Type	GEL	W.L.	8.8
Filter Cake	2/32	Visc. 75	Wt. 8.8
Time Taken	0600 HRS.		
Contractor	NABOR DRLG.	Rig No.	10
Drill Pipe Size	4 1/2 XH & 4 1/2 H90		
Drill Collar Size	2 7/8" I.D.	Length	454.66'
Main Hole Size	8 3/4"		
Rat Hole Size			

District: FORT ST. JOHN Ticket No. D 03934 Date: FEBRUARY 21, 1971 Test No. 3 J.T. No. 3

Company: CENTRAL DEL RIO OILS LIMITED

Well Name: CDR CPOG ET AL LA BICHE

Number: #F-08-60°40'N 124°31'W

Formation: MIDDLE DEVONION

Test Interval: 6420 - 6475 DST#3

Distribution of Reports: 13 - CALGARY

Address: 205 - 9TH AVE. S.E. CALGARY 21, ALBERTA

Field: W/C Province: N.W.T.

Co. Rep.: H. SPLETT

Technician: S. JANZ

JT-16C-SB

JOHNSTON TESTERS 3621 80TH AVENUE S.E. • CALGARY 24 ALBERTA • PH 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03934

PRESSURE DATA

		AK1-2107	AK1-2077	AK1-2027
INSTRUMENT No		AK1-2107	AK1-2077	AK1-2027
CAPACITY (psig)		4600	4000	4300
INSTRUMENT DEPTH FT.		6430	6435	6521
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.				
WELL TEMP. °F 220				
INITIAL HYDROSTATIC	A	2877#	2879#	2919#
FIRST FLOW	B	908#	897#	
	B-1	869#	857#	A1 3057#
INITIAL SHUT-IN	C	1759#	1749#	RAN BELOW
SECOND FLOW	D	901#	891#	STRADDLE
	D-1	1108#	1096#	
SECOND SHUT-IN	E			A2 2492#
THIRD FLOW	F			
	F-1			A3 2898#
FINAL SHUT-IN	G	1758#	1748#	
FINAL HYDROSTATIC	H	2872#	2874#	2905#

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

FLUID SAMPLE REPORT

Sample No.

Type

Depth 6398 ft.

Volume 2500 cc

Sample Pressure:

255 psig. at Surface

Gravity API @ °F

Gas Oil Ratio Cu.Ft./bbl.

Recovery:

Cu. Ft. Gas 1

cc. Oil

cc. Water

cc. Mud

Total Liquid cc.

PRESSURE INCREMENTS ON RECORDER #AK1-2077

INITIAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$
0	856.7	----
5	1746.7	2.00
10	1747.7	1.50
15	1748.0	1.33
20	1748.2	1.25
25	1748.4	1.20
30	1748.5	1.17
35	1748.6	1.14
40	1748.7	1.13
45	1748.7	1.11
50	1748.7	1.10
55	1748.7	1.09
60	1748.7	1.08

FINAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$
0	1095.7	----
5	1745.6	26.00
10	1746.6	13.50
15	1747.0	9.33
20	1747.3	7.25
25	1747.4	6.00
30	1747.5	5.17
35	1747.5	4.57
40	1747.5	4.13
45	1747.6	3.78
50	1747.6	3.50
55	1747.6	3.27
60	1747.7	3.08

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

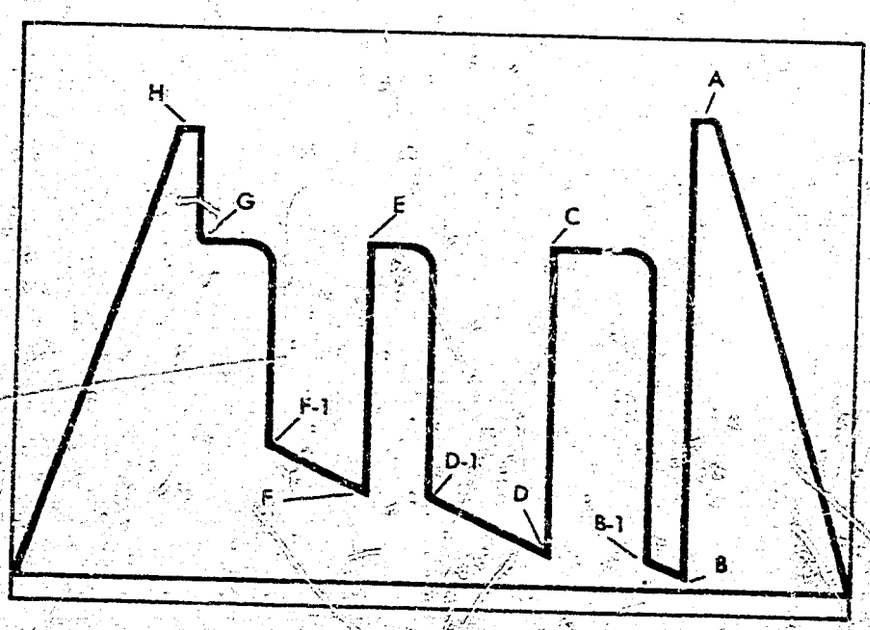
JT-1 & E-13A

JOHNSTON TESTERS 321 - 5GTH AVENUE S.E. • CALGARY 24, ALBERTA • PH 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

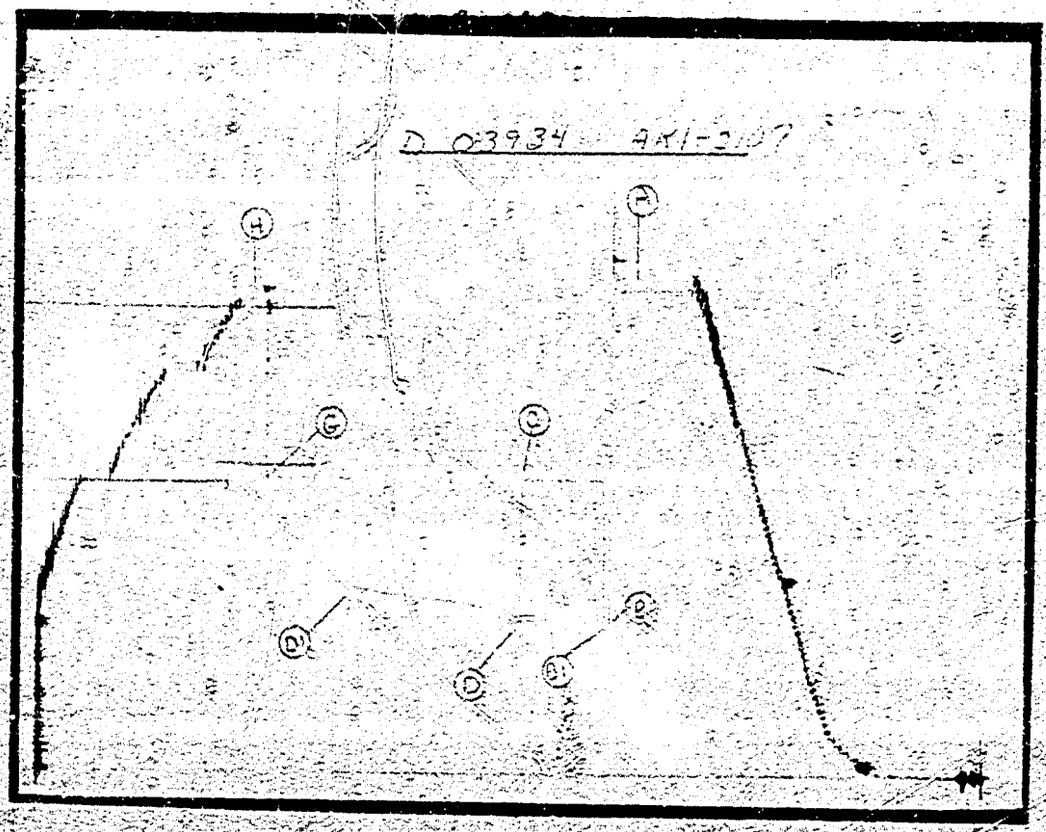
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D 03934	AK1-2107

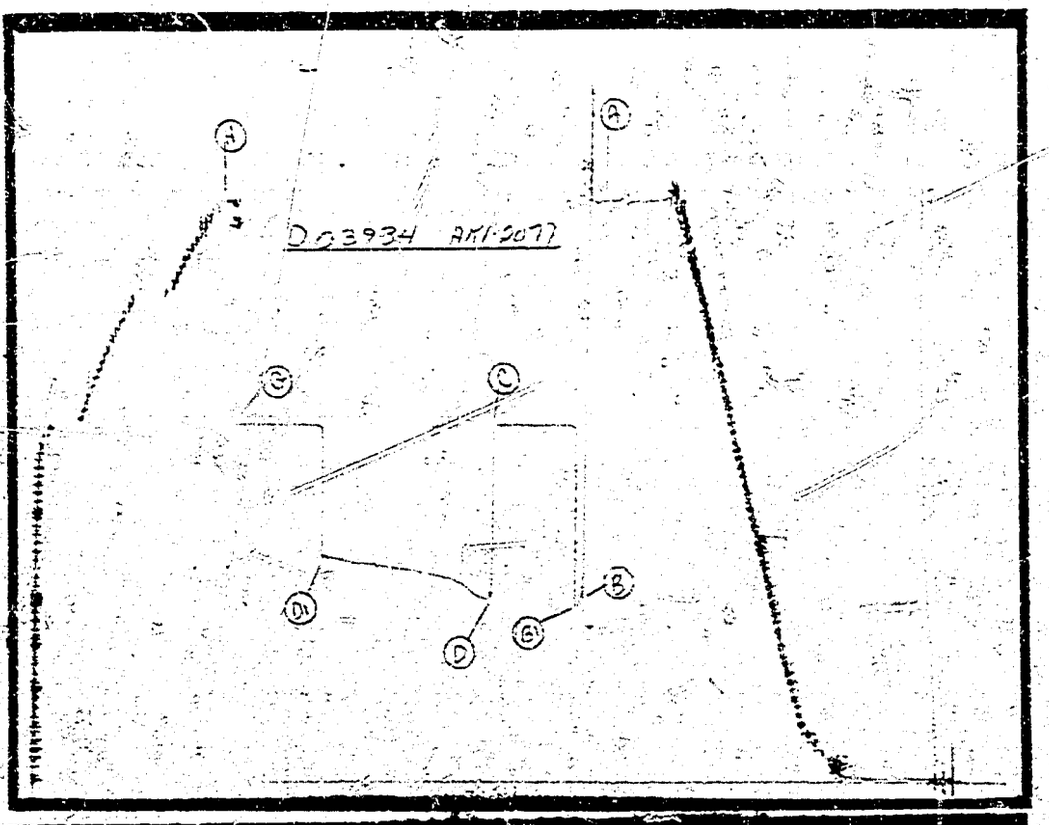


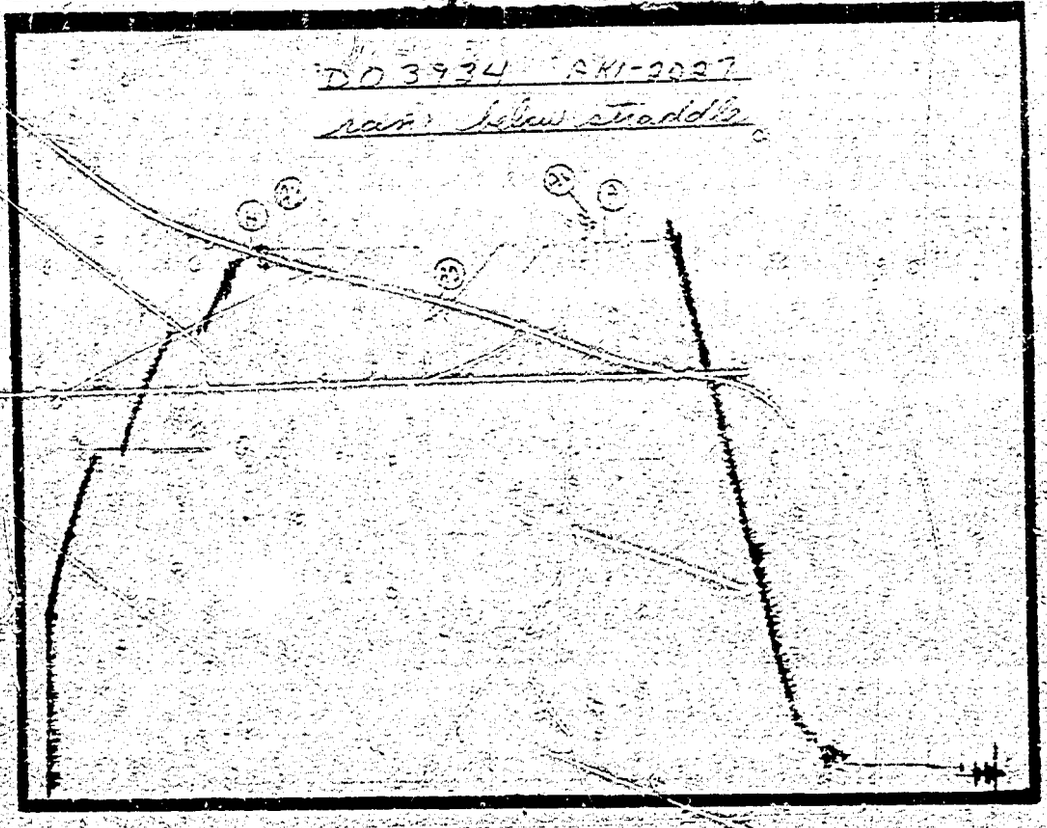
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.




DO3934 AKI-2077
A
A
C
C
B
B
D1
D1
D
D


DO3934 AKI-2077
rear below saddle
2
2
1
1
3
3

DST #4

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft
Interval	7051	To 7150	T.D 7300		Ft
Type of Test	OPEN HOLE, STRADDLE, BYPASS				
Time Started in Hole	1830	Hrs	Tool Opened	2258	Hrs
First Flow	23	Min	Initial Shut-In	60	Min
Second Flow	150	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	24	Min
Pulled Loose @	2030	Hrs	Out of Hole	0630	Hrs
Wt. Set on Packers	40,000	#	Pulled Loose Wt	120,000	#
Description of Blow During Test	POOR INITIAL PUFF. FAIR AIR FINAL SHUT-IN. (DIFFERENTIALLY STUCK)				

FLUID RECOVERY

Was Test Reverse Circulated Yes No

Total Fluid Recovered 90' Ft

Description of Fluid Recovered

90' BLACK SULPHUROUS WATER CUT DRILLING FLUID BELOW PUMP OUT SUB.

PUMPED OUT FLUID.

GAS BLOW MEASUREMENT

Measured With I.D. Rate

Type of Instrument

Time	Size Choke	Pressure psi	M Cubic Feet Day
			NIL

REMARKS TEST SATISFACTORY

HAD NO INDICATION OF FREE POINT FOR FINAL SHUT-IN, TRIED LATER, GIVING THE 150 MIN FLOW & 24 MIN SHUT-IN. TRIED TO PULL LOOSE WITH 290,000 LBS. COLLARS WERE DIFFERENTIALLY STUCK, RAN MFE AND PACKERS, FEB 23, OPENED TOOL FOR 10 MINS AND RELIEVED PRESSURE. CAME OUT OF HOLE, WITH A PIPE RECOVERY OF 1385' OF BLACK SULPHUROUS SALT WATER.

	RESISTIVITY		CHLORIDE CONTENT	
Recovery Water	1.5 @	77 °F	1925	ppm
Mud Pit sample filtrate	3.5 @	77 °F	300	ppm

TOOL SEQUENCE

Tool	Length	O.D
P.O. SUB	1.28	
JARS	8.65	
D.P. SUB	.86	
MFE TOOL	9.22	
BYPASS TOOL	5.05	
DISC VALVE	1.84	
H. SUB	.87	
SAFETY JOINT	1.75	
S.S. & PACKER	9.29	7 1/2"
T.C. & PACKER		
TOTAL	42.05	
STUB	1.29	
PERF	22.06	
R. SUB	.86	
RECORDER	4.40	
RECORDER	4.40	
SUB	.87	
DRILL COLLAR	60.39	
SUB	.88	
T.C. & SUB	3.90	
TOTAL INTERVAL	99.05	
PACKER	2.70	7 1/2"
T.C. & PACKER	5.37	7 1/2"
PERF	11.05	
RECORDER	4.40	
SUB	.76	
DRILL PIPE	122.44	
SUB	.74	
B.N.	1.50	
TOTAL BELOW INTV	149.96	
TOTAL LENGTH	291.06	

Elevation 4274 KB 4257 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt

MUD AND HOLE DATA

Mud Type GEL Wt 8.8

Filter Cake 2/32 Visc 75 Wt 8.8

Time Taken 0609 HRS.

Contractor NABOR DRLG Rig No. 10

Drill Pipe Size 4 1/2 XH & 4 1/2 H90

Drill Collar Size 2 7/8" ID Length 454.66'

Main Hole Size 8 3/4"

Rat Hole Size

District FORT ST. JOHN Ticket No. D 03935 Date FEBRUARY 21, 1971 Test No. 4 J.T. No. 4

Company CENTRAL - DEL RIO OILS LIMITED Address 205 - 9TH AVE. S.E. CALGARY 21, ALBERTA

Well Name CDR-CPOG ET AL LA BICHE

Number #F-08-60°40'N 124°31'W Field WILDCAT Province N.W.T.

Formation MIDDLE DEVONION

Sand Interval 7051 - 7150 DST#4 Op. Rep. H. SPLEET

Technician S. JANZ

Distribution of Reports

13 - CALGARY

JT-1aE-5B

JOHNSTON TESTERS

D 03935

PRESSURE DATA

		AK1-2107	AK1-2077	AK1-2027
INSTRUMENT No.		AK1-2107	AK1-2077	AK1-2027
CAPACITY psig		4600	4000	4350
INSTRUMENT DEPTH FT		7075	7080	7170
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT				
WELL TEMP. °F. 254				
INITIAL HYDROSTATIC	A	3048#	3041#	3031#
FIRST FLOW	B	339#	336#	
	B-1	681#	678#	A1 3468#
INITIAL SHUT IN	C	1985#	1982#	
SECOND FLOW	D	571#	569#	RAN BELOW
	D-1	1802#	1799#	STRADDLE
SECOND SHUT-IN	E			
THIRD FLOW	F			
	F-1			A2 2049#
FINAL SHUT IN	G	1978#	1971#	
FINAL HYDROSTATIC	K	3161#	3142#	3178#

FLUID SAMPLE REPORT

Sample No.

Type

Depth 7033 ft.

Volume 2500 cc

Sample Pressure:

125 psig. at Surface

Gravity API @ °F

Gas Oil Ratio Cu.Ft. bbl.

Recovery:

Cu. Ft. Gas

cc. Oil

cc. Water

cc. Mud 2300

Total Liquid cc. 2300

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

PRESSURE INCREMENTS ON RECORDER #AK1-2077

INITIAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$
0	678	----
5	1900	5.60
10	1936	3.30
15	1954	2.53
20	1964	2.15
25	1969	1.92
30	1973	1.77
35	1975	1.66
40	1977	1.58
45	1979	1.51
50	1980	1.46
55	1981	1.42
60	1982	1.38

FINAL SHUT-IN

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$
0	1799	----
3	1944	58.67
6	1953	29.83
9	1959	20.22
12	1963	15.42
15	1966	12.53
18	1968	10.61
21	1970	9.24
24	1971	8.21

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

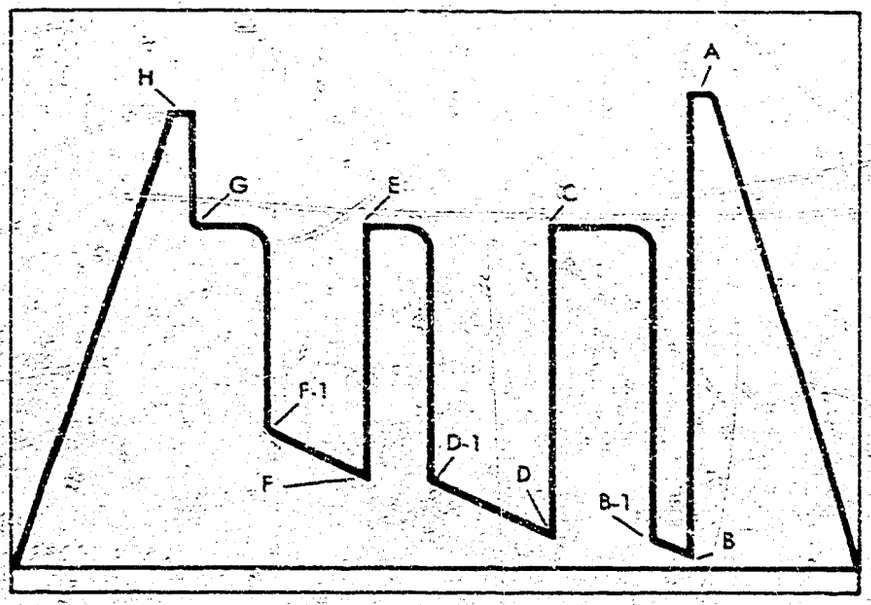
JT-1 & E-13A

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO.	RECORDER NO.
D 03935	AK1-2107

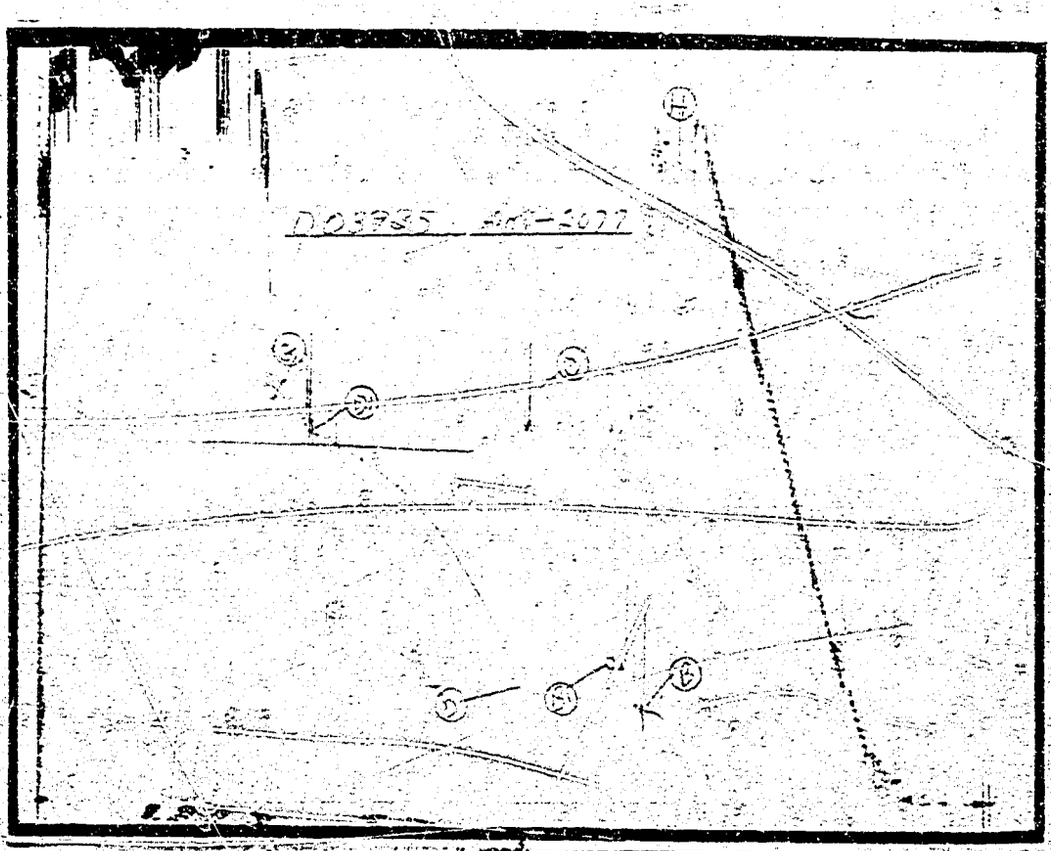


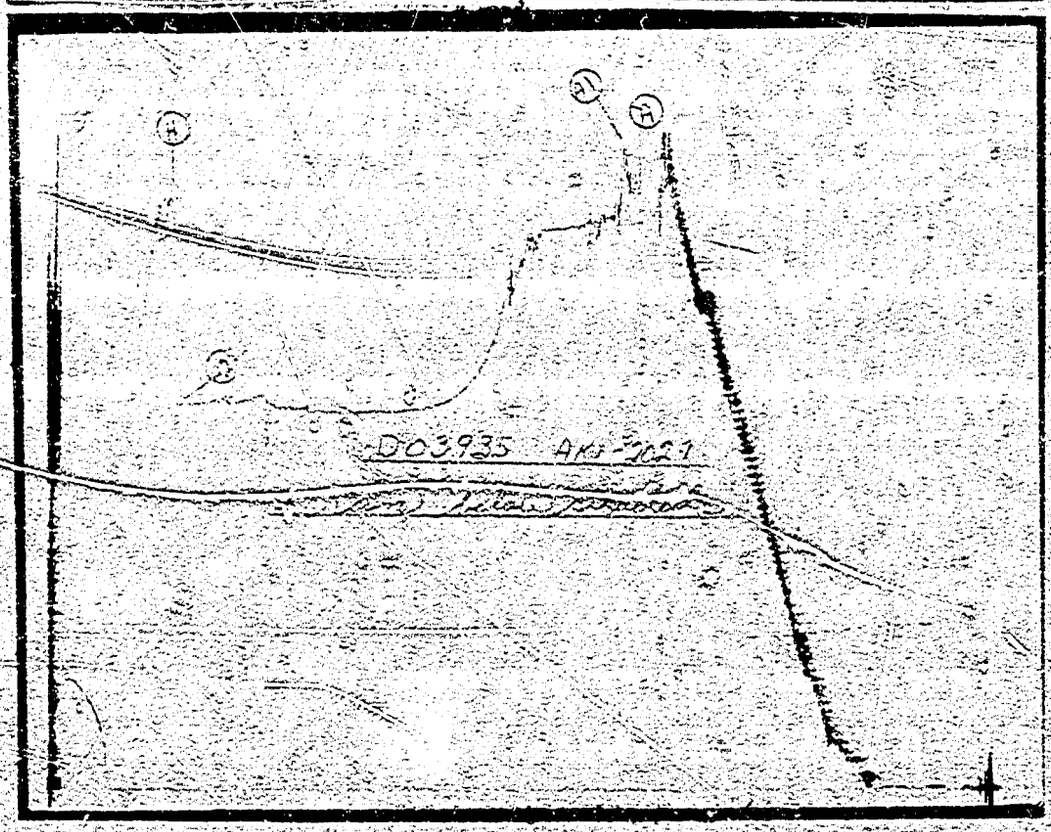
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.




D03935 AK-3077


D03935 AK-3077

DST #5

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS 321 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH 255 1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft
Interval	7065	To 7300	T.D. 7300		Ft
Type of Test	CASING				
Time Started in Hole	2130	Hrs	Tool Opened	0422	Hrs
First Flow	5	Min	Initial Shut-In	60	Min
Second Flow	90	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	60	Min
Pulled Loose @	0757	Hrs	Out of Hole	1345	Hrs
Wt. Set on Packers	30,000	#	Pulled Loose Wt	30,000	#

Description of Blow During Test: VERY WEAK INITIAL PUFF, DEAD IN 3 MINUTES. FAIR AIR BLOW WHEN TOOL RE-OPENED, DECREASING TO DEAD IN 70 MIN.

FLUID RECOVERY

Was Test Reverse Circulated Yes ___ No X

Total Fluid Recovered 4370' Ft

Description of Fluid Recovered

4370' BLACK SULPHUROUS, GASSY SALT WATER.

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading psi inches	M Cubic Feet Day
			NIL

REMARKS: TEST SATISFACTORY
PERFORATED - 7110 TO 7188
PACKER SET AT 7065

	RESISTIVITY		CHLORIDE CONTENT	
Recovery Water	3.50 @	77 °F.	1500	ppm.
Mud Pit sample filtrate	.07 @	77 °F.	UNDER 2,000	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
SUB	.92	
P.O. SUB	.75	
SUB	.72	
SUB	.85	
MFE TOOL	10.01	
BIAS	4.07	
JARS	6.98	
SAFETY JOINT	1.75	
BYPASS TOOL	3.02	
CASING PACKER	.17	3 13/16
TOTAL	29.24	
CASING PACKER	4.97	3 13/16
PERF	5.00	
RECORDER	4.40	
RECORDER	4.40	
PERF	10.00	
B.N.	1.50	
TOTAL INTERVAL	30.27	
TOTAL LENGTH	59.51	

Elevation 4274.4 KB 4257 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type WATER W.L.

Filter Cake Visc. Wt.

Time Taken

Contractor NABOR DRLG. Rig No. 10

Drill Pipe Size 2 7/8"

Drill Collar Size Length

Main Hole Size 7"

Rat Hole Size

District FORT NELSON Ticket No. D 03937 Date MARCH 7, 1971 Test No. 5 J.T. No. 5

Company CENTRAL-DEL RIO OILS LIMITED Address 205 - 9TH AVE. S.E. CALGARY 21, ALBERTA

Well Name CDR CPOG ET AL LA BICHE

Number #F-08-60°40'N 124°31'W Field W/C Province N.W.T.

Formation and Interval MIDDLE DEVONION 7065 - 7300 DST#5

Co. Rep H. SPLETT

Technician S. JANZ

Distribution of Reports

13 - CALGARY

JT-IAC-5B

JOHNSTON TESTERS 3rd South AVENUE S.E. • CALGARY 28 ALBERTA • PH. 265 1151

A DIVISION OF [illegible]

D 03937

PRESSURE DATA

INSTRUMENT No		AK1-2077	AK1-2027	
CAPACITY (psig)		4000	4350	
INSTRUMENT DEPTH FT		7075	7079	
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	
PRESSURE GRADIENT psi/FT.				
WELL TEMP. °F. 238				
INITIAL HYDROSTATIC	A	2933#	2934#	
FIRST FLOW	B	366#	367#	
	B-1	673#	771#	
INITIAL SHUT IN	C	1998#	2000#	
SECOND FLOW	D	842#	840#	
	D-1	1954#	1955#	
SECOND SHUT-IN	E			
THIRD FLOW	F			
	F-1			
FINAL SHUT-IN	G	1971#	1971#	
FINAL HYDROSTATIC	H	2956#	STATIC	

FLUID SAMPLE REPORT

Sample No.

Type 4 1/4"

Depth 7040 ft.

Volume 2050 cc

Sample Pressure:

775 psig. at Surface

Gravity API @ °F

Gas Oil Ratio Cu.Ft./bbl.

Recovery

Cu. Ft. Ga.

cc Oil

cc Water 2030

cc Mud

Total Liquid cc 2030

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T \cdot \Delta t}{\Delta t}$

JT-1 & E-13A

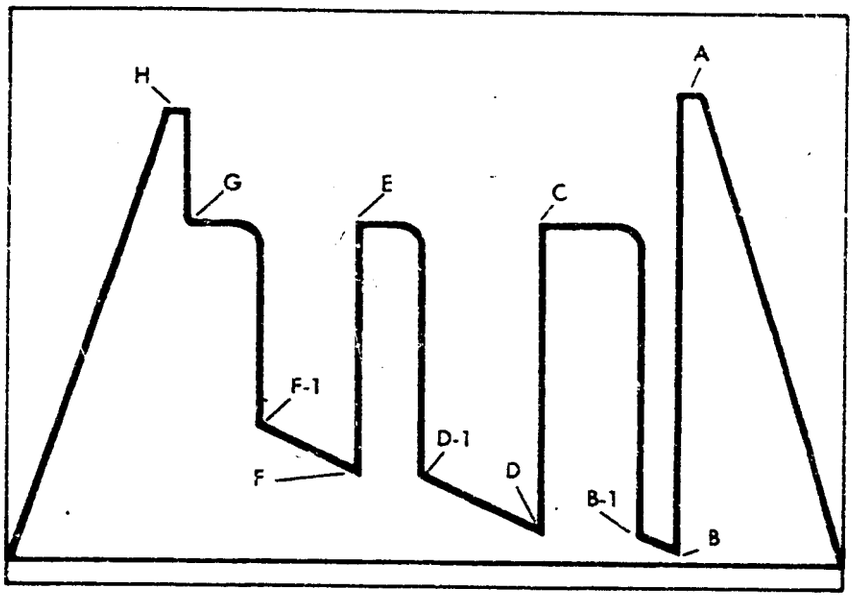
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GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

FIELD REPORT NO. D 03937

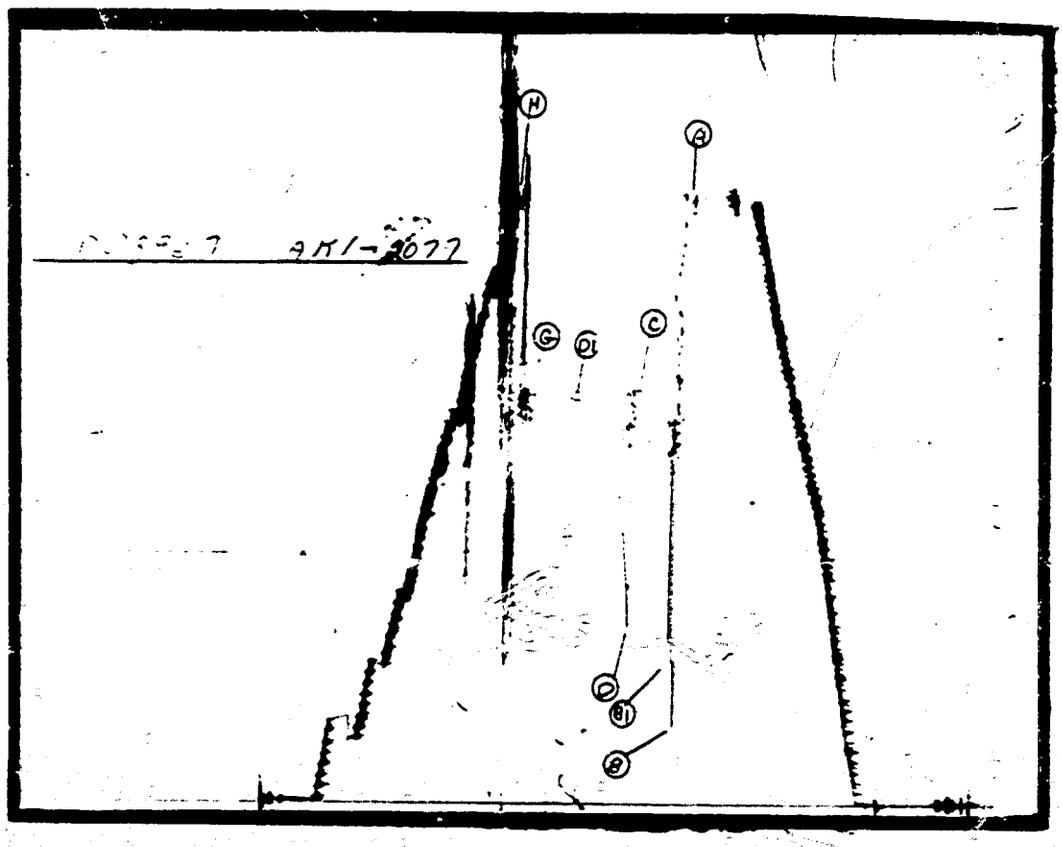
RECORDER NO. AK1-2077



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



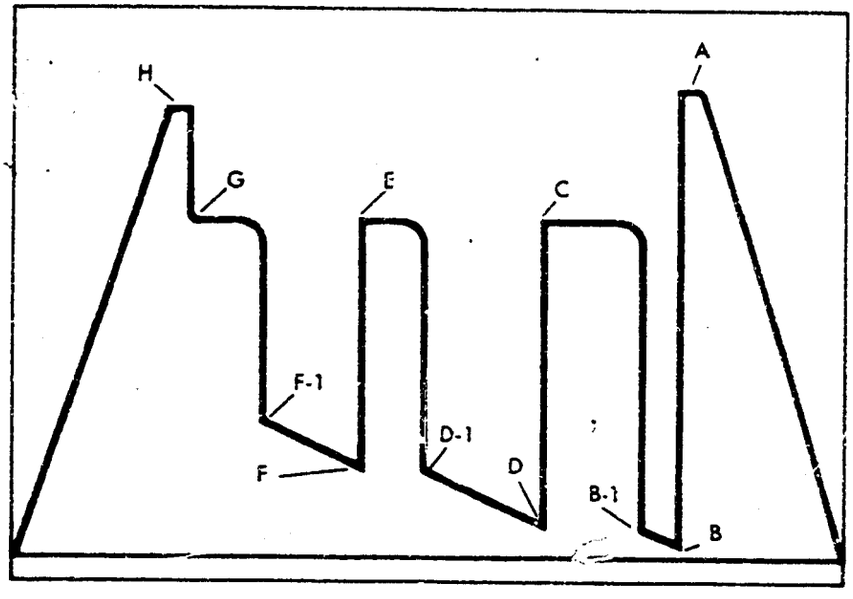
JT-1 & E-13A

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GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

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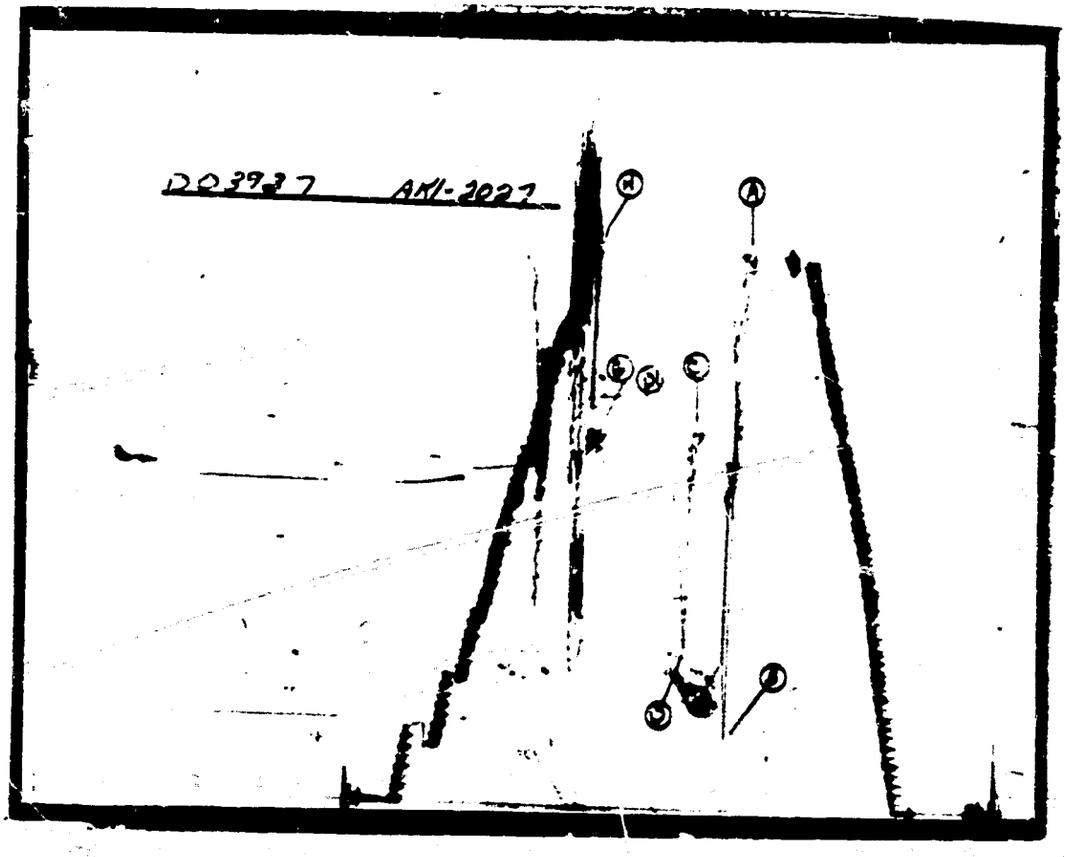
RECORDER NO. AK1-2027



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



DET #6

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

321 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH 255 1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft
Interval	6945	To 7300	T.D	7300	Ft
Type of Test	CASING				
Time Started in Hole	0130	Hrs	Tool Opened	0913	Hrs
First Flow	5	Min	Initial Shut-In	60	Min
Second Flow	90	Min	Second Shut-In		Min
Third Flow		Min	Final Shut-In	90	Min
Pulled Loose @	1320	Hrs	Out of Hole	1800	Hrs
Wt. Set on Packers	30,000	#	Pulled Loose Wt	10,000	#

Description of Blow During Test: WEAK INITIAL PUFF. FAIR AIR BLOW WHEN TOOL RE-OPENED, DECREASING TO NIL IN 53 MINUTES.

FLUID RECOVERY

Was Test Reverse Circulated Yes ____ No X

Total Fluid Recovered: 4465' ft

Description of Fluid Recovered:

4465' SLIGHTLY GASSY BLACK SULPHUROUS SALT WATER.

GAS BLOW MEASUREMENT

Measured With: I.D. Riser

Type of Instrument:

Time	Size Choke	Reading psi inches	M Cubic Feet Day
		NIL	

REMARKS: TEST SATISFACTORY
PERFORATED FROM 6984 - 7074
PACKER SET AT 6945

	RESISTIVITY			CHLORIDE CONTENT	
Recovery Water	1.57 @	77 °F		800	ppm.
Mud Pit sample filtrate	.07 @	77 °F.	UNDER	2,000	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
SUB	.92	
P.O. SUB	.75	
SUB	.72	
SUB	.85	
MFE TOOL	10.01	
BIAS	4.07	
JARS	5.98	
SAFETY JOINT	1.75	
BYPASS TOOL	3.02	
PACKER	.17	
TOTAL	29.24	
PACKER	4.97	
PERF	5.00	
RECORDER	4.40	
RECORDER	4.40	
PERF	10.00	
B.N.	1.50	
TOTAL INTERVAL	30.27	
TOTAL LENGTH	59.51	

Elevation 4274.4 KB 4257 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type WATER W.L.

Filter Cake Visc. Wt 8.4

Time Taken

Contractor NABOR DRLG Rig No. 10

Drill Pipe Size 2 7/8"

Drill Collar Size Length

Main Hole Size

Rat Hole Size

District FORT NELSON Ticket No. D 03938 Date MARCH 9, 1971 Test No. 6 J.T. No. 6

Company CENTRAL-DEL RIO OILS LIMITED Address 205 - 9TH AVE. S.E.

Well Name CDR CPOG ET AL LA BICHE CALGARY 21, ALBERTA

Number F-08-60°40'N 124°31'W Field WILDCAT Province N.W.T.

Formation MIDDLE DEVONION Co. Rep. H. SPLETT

and Interval 6945 - 7300 DST#6 Technician S. JANZ

Distribution of Reports

13 - CALGARY

JT-RaE-58

JOHNSTON TESTERS 321 10TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 265-1151

A DIVISION OF [illegible]

D 03938

PRESSURE DATA

INSTRUMENT No		AK1-2077	AK1-2027
CAPACITY psig		4000	4000
INSTRUMENT DEPTH FT		6955	6960
INSTRUMENT OPENING		OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.			
WELL TEMP °F	256		
INITIAL HYDROSTATIC	A	2944#	2918#
FIRST FLOW	B	1069#	1071#
	B-1	1232#	1251#
INITIAL SHUT-IN	C	1932#	1935#
SECOND FLOW	D	1388#	1387#
	D-1	1928#	1930#
SECOND SHUT-IN	E		
THIRD FLOW	F		
	F-1		
FINAL SHUT-IN	G	1930#	1933#
FINAL HYDROSTATIC	H	2865#	2872#

FLUID SAMPLE REPORT

Sample No.

Type

Depth 6929 ft.

Volume 2050

Sample Pressure.

775 psig. at Surface

Gravity API @ °F

Gas Oil Ratio Cu.Ft/bbl.

Recovered:

Cu. Ft. Gas

cc. Oil

cc. Water 2030

cc Mud

Total Liquid cc 2030

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$

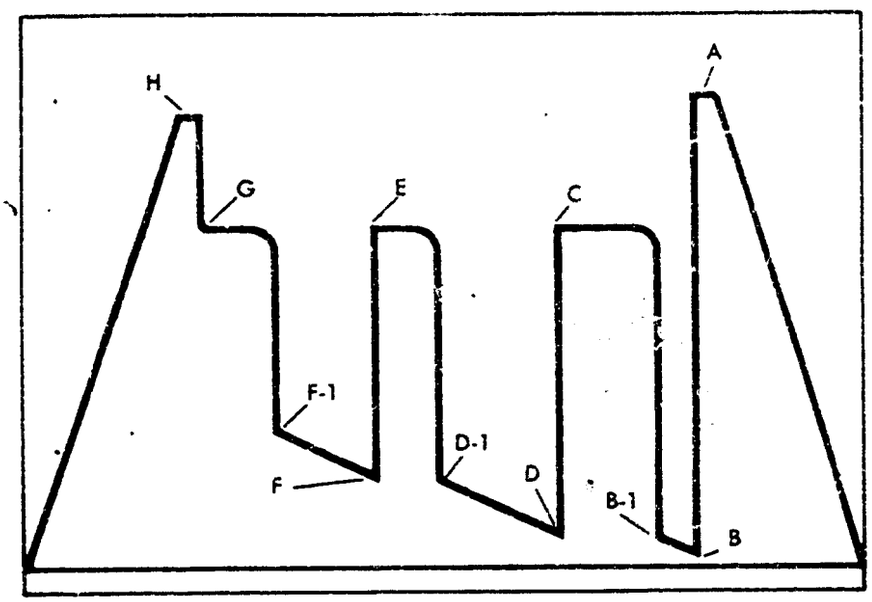
JT-1 & L-13A

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GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

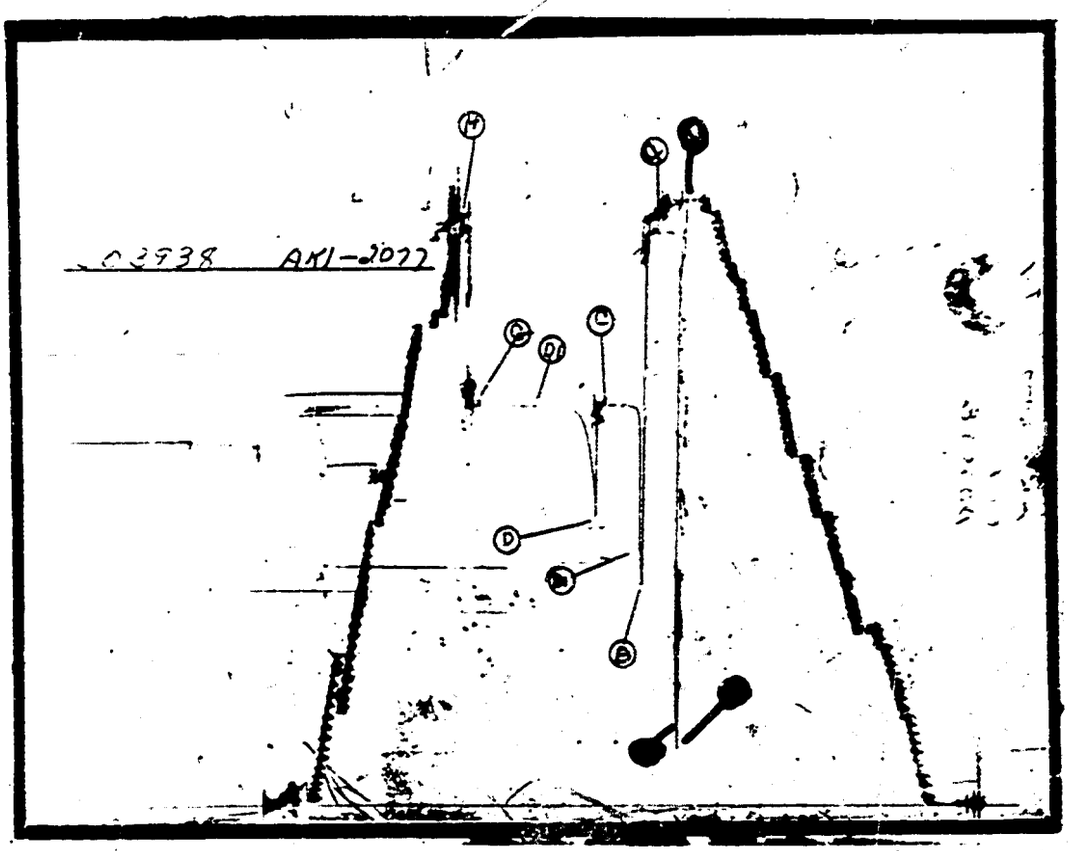
FIELD REPORT NO.	RECORDER NO.
D 03938	AK1-2077



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

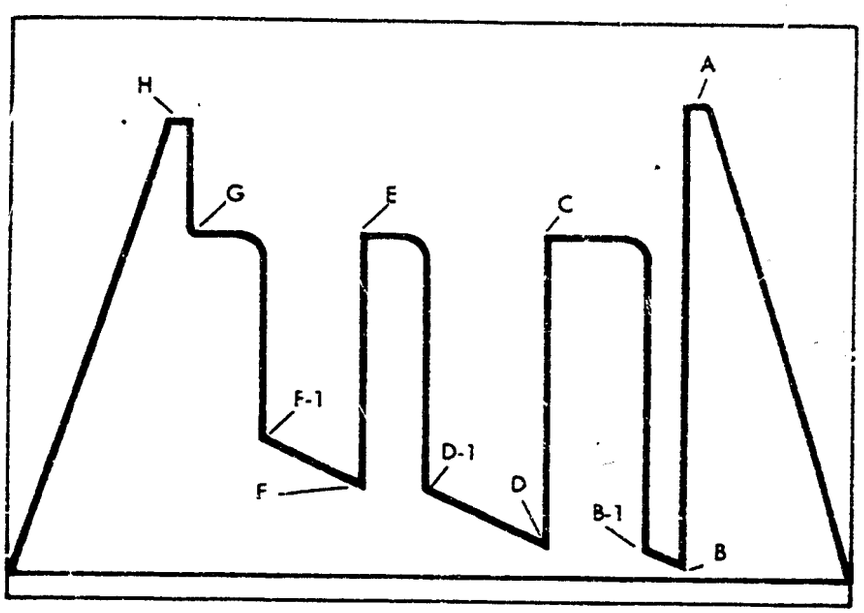


JT-1 & E-13A

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GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

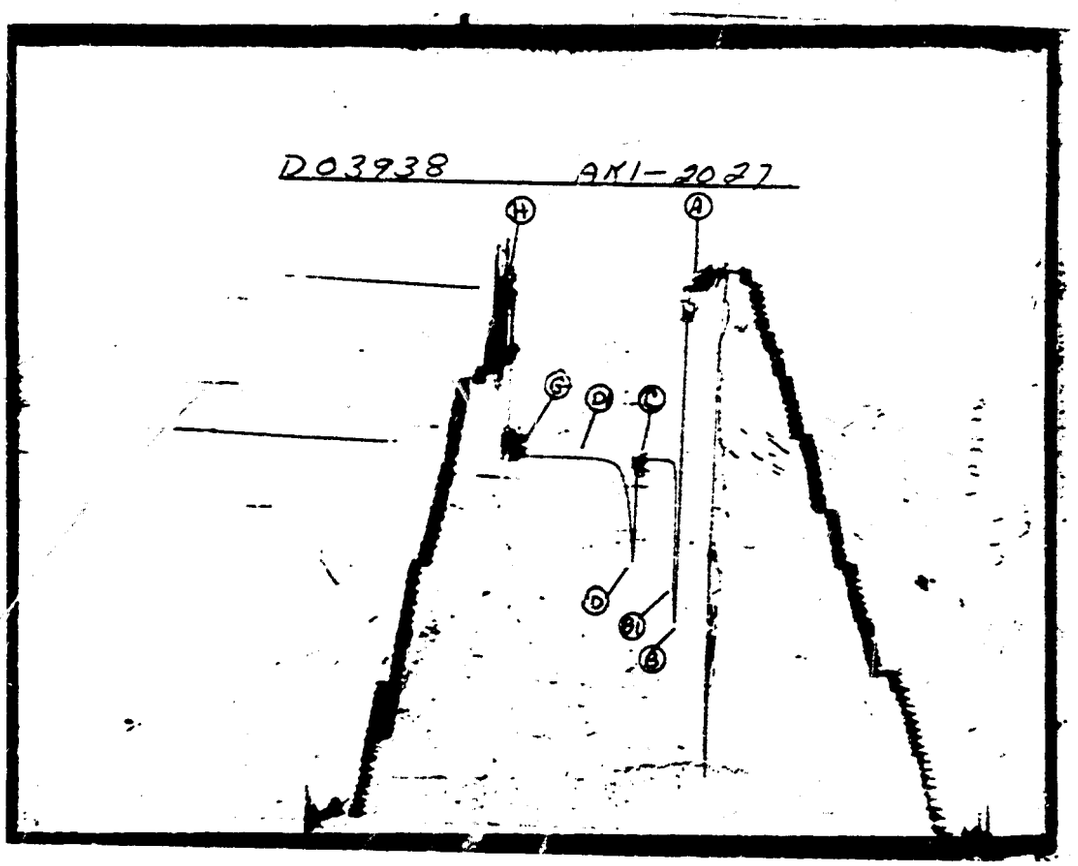
FIELD REPORT NO.	RECORDER NO.
D 03938	AK1-2027



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



DST #7

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. • CALGARY 24 ALBERTA • PH 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

TEST DATA

Formation	MIDDLE DEVONION	Zone Thickness			Ft.
Interval	6680	To 7300	T.D. 7300		Ft.
Type of Test	CASING				
Time Started in Hole	0200	Hrs.	Tool Opened	0655	Hrs.
First Flow	5	Min.	Initial Shut-in	60	Min.
Second Flow	120	Min.	Second Shut In		Min.
Third Flow		Min.	Final Shut-in	90	Min.
Pulled Loose at	1130	Hrs.	Out of Hole	1630	Hrs.
Wt. Set on Packer	30,000	#	Pulled Loose Wt.	10,000	#

Description of Blow During Test: VERY WEAK AIR BLOW O/A PREFLOW, TOOL WAS RESET AND OPENED AGAIN BEFORE INITIAL SHUT-IN. POOR AIR BLOW, DEAD IN 103 MINUTES.

FLUID RECOVERY Was Test Reverse Circulated Yes ___ No ___

Total Fluid Recovered: 4200' Ft.

Description of Fluid Recovered:

4200' SLIGHTLY GASSY, BLACK SULPHUROUS WATER.

GAS BLOW MEASUREMENT

Measured With: I.D. Riser

Type of Instrument

Time	Size Choke	Reading	M Cubic Feet Day
		NIL	

REMARKS: TEST SATISFACTORY
FINAL SHUT-IN IS STABILIZED
PERFORATED FROM 6727 - 6772
PACKER SET AT 6680.

	RESISTIVITY		CHLORIDE CONTENT	
Recovery Water	2.31 @	77 °F	600	ppm.
Mud Pit sample filtrate	7.0 @	°F	NONE	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
SUB	.92	
P.O. SUB	.75	
SUB	.72	
SUB	.85	
MFE TOOL	10.01	
BIAS	4.07	
JARS	6.98	
SAFETY JOINT	1.75	
BYPASS	3.02	
PACKER	.17	
TOTAL	29.24	
CASING PACKER	4.97	
PERF	5.00	
RECORDER	4.40	
RECORDER	4.40	
PERF	10.00	
B.N.	1.50	
TOTAL INTERVAL	30.27	
TOTAL LENGTH	59.51	

Elevation 4257 G.L. 4274.4 KB

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type WATER W.L.

Filter Cake Visc. Wt.

Time Taken

Contractor NABOR DRLG Rig No. 10

Drill Pipe Size 2 7/8"

Drill Collar Size Length

Main Hole Size

Rat Hole Size

District FORT NELSON Ticket No. D 03939 Date MARCH 10, 1971 Test No. 7 J.T. No. 7

Company CENTRAL-DEL RIO OILS LIMITED Address 205 - 9TH AVE. S.E. CALGARY 21, ALBERTA

Well Name CDR CPOG ET AL LA BICHE

Number #F-08-60°40'N 124°31'W Field WILDCAT Province N.W.T.

Formation MIDDLE DEVONION Co. Rep. H. SPLETT

and Interval 6680 - 7300 DST#7 Technician S. JANZ

Distribution of Reports

13 - CALGARY

JT-1&E-58

JOHNSTON TESTERS 321 5TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 265-1151

A DIVISION OF [illegible]

D 03939

PRESSURE DATA

INSTRUMENT No.		AK1-2027	AK1-2077
CAPACITY psig		4350	4000
INSTRUMENT DEPTH FT		6690	6694
INSTRUMENT OPENING		OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.			
WELL TEMP °F 255			
INITIAL HYDROSTATIC	A	2802#	2800#
FIRST FLOW	B	140#	144#
	B-1	805#	613#
INITIAL SHUT-IN	C	1822#	1819#
SECOND FLOW	D	920#	1010#
	D-1	1820#	1817#
SECOND SHUT-IN	E		
THIRD FLOW	F		
	F-1		
FINAL SHUT-IN	G	1820#	1821#
FINAL HYDROSTATIC	H	STATIC	STATIC

FLUID SAMPLE REPORT

Sample Tool
Type 4 1/4"
Depth 6665 ft.
Volume 2050 cc

Sample Pressure:
755 psig. at Surface

Gravity °API @ °F

Gas Oil Ratio Cu.Ft./bbl.

Recovery
Cu. Ft. Gas
cc. Oil
cc. Water 2030
cc. Mud 2030
Total Liquid cc.

REMARKS: MFE SAMPLE DRAINED ON LOCATION.

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

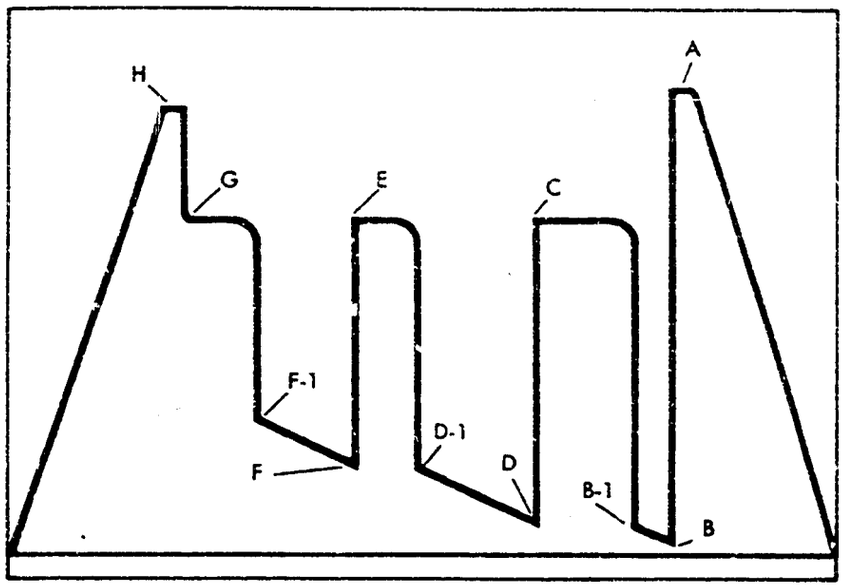
JT-1 & E-13A

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. • CALGARY 24, ALBERTA • PH 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

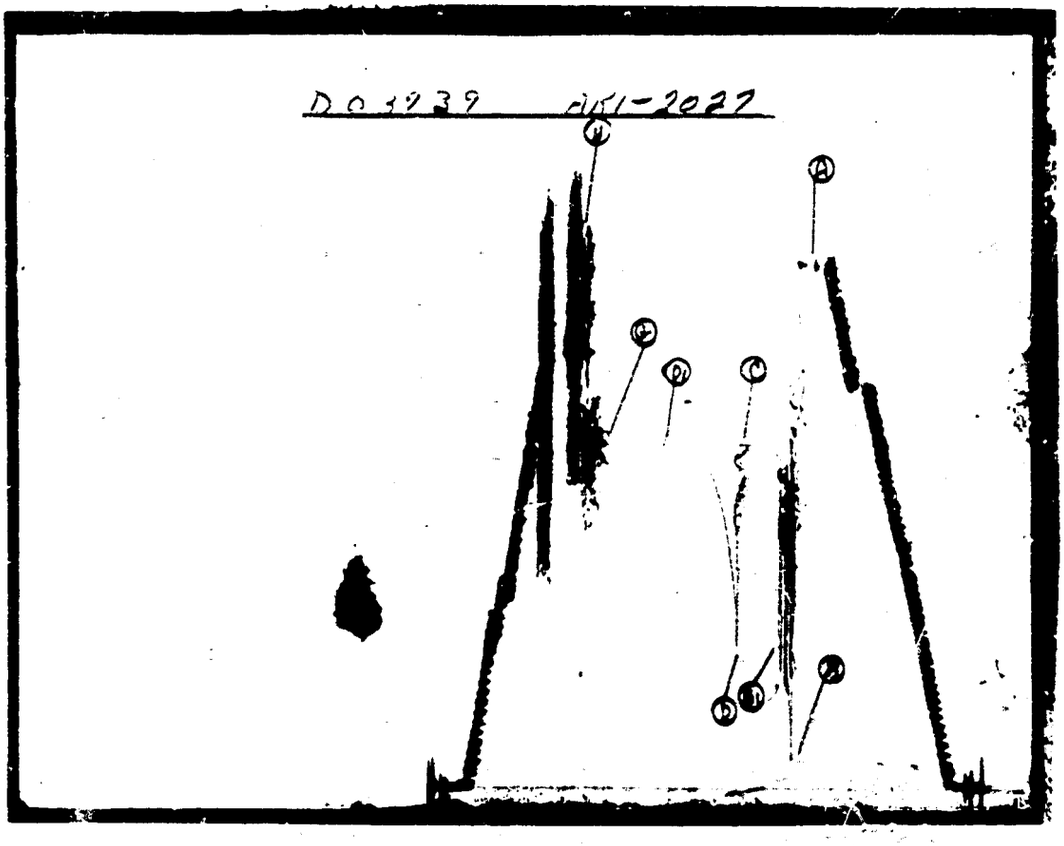
FIELD REPORT NO.	RECORDER NO.
D 03939	AK1-2027



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breckdown.

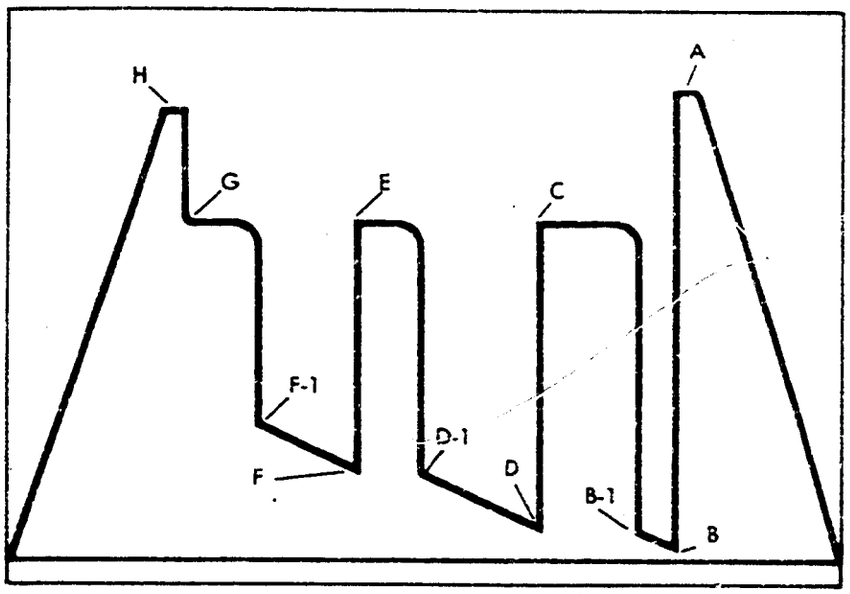


JT-1 & E-13A

JOHNSTON TESTERS 321 - 50TH AVENUE S.E. CALGARY 24, ALBERTA • PH. 255-1151
A DIVISION OF SCHLUMBERGER CANADA LIMITED

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

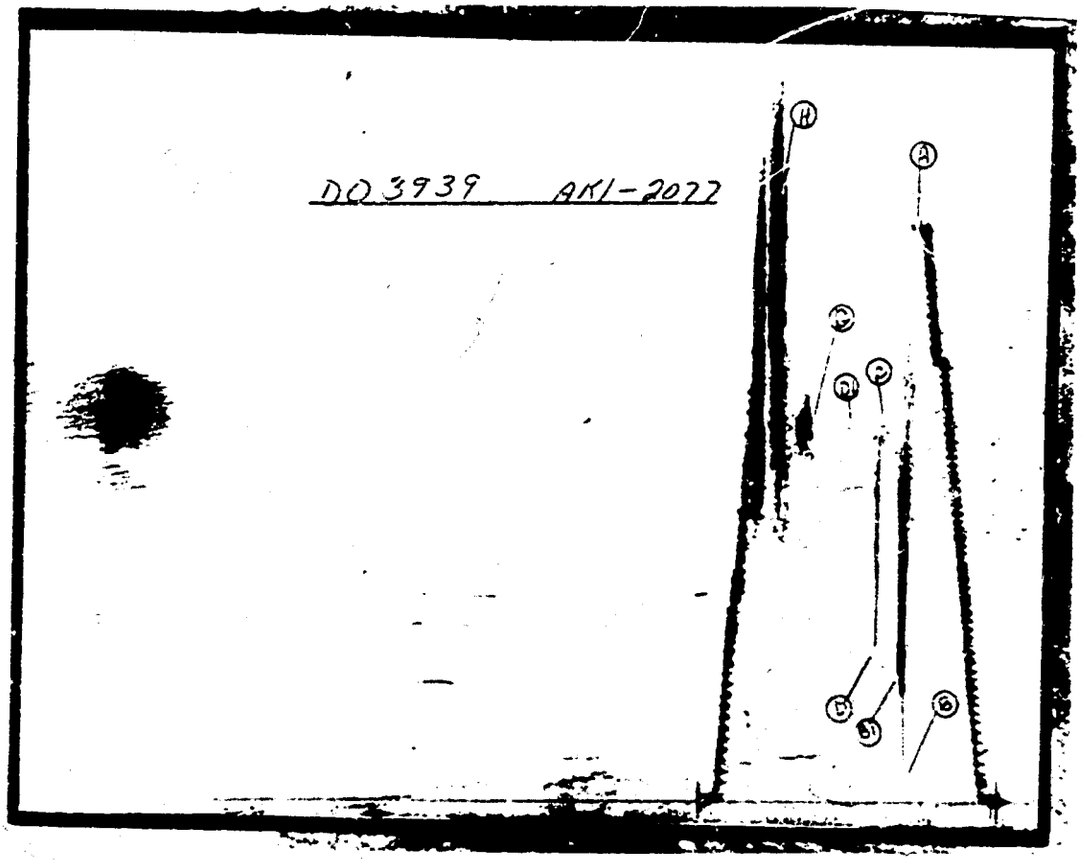
FIELD REPORT NO.	RECORDER NO.
D 03939	AK1-2077



A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.



(b) CASING RECORD

PRODUCTION CASING:

March 5, 1971

Depth - 7300'
Casing size - 7"
Ran:

51 joints K-55,	26# ST&C,	= 1820.21
116 joints K-55,	23# ST&C,	= 4622.45
18 joints K-55,	23# LT&C,	= 745.25
3 joints N-80,	26# LT&C,	= 118.39
188 joints Mannesmann		= 7306.30
Float shoe and float collar		2.90
Total		7309.20

Cement baskets at 6700' - 6100'

Cemented with 300 bags 1 - 1 poz mix, 2% Gel, and 0.2% HR4.
Slurry weight of 13.2# - 13.5# per gallon, displaced with 287 barrels of water.
Bumped plug with 2000 PSI.
Plug down at 4:45 A.M., March 5, 1971
Landed at 7300' K.B.

Good mud returns throughout cement job.
Cemented by:
Halliburton Services Ltd.

BIT RECORD

No.	Size	Make	Type	Jet Size	Serial	Depth Out	Feet	Hours	Dull Cond T	B	G	Wt. 1000 Lbs.	R.P.M.
10	8 3/4	Reed	SS1GJ	out	880276	4800	70	5 1/2	3	1	1	25	80
11	8 3/4	Reed	SMG	3/14	685598	4979	179	13 1/2	4	1	1	20-25	80
12	8 3/4	HW	RX55R	2/13 1/14	9836	5177	198	22 1/2	1	1	1	5-20	60-80
13	8 3/4	Sec.	M4LG	3/13	911886	5298	121	21	5	3	1	6-14	80
14	8 3/4	Sec.	H77	3/13	304604	5469	171	24	5	1	1	10-18	80
15	8 3/4	Reed	YHG	3/13	882140	5764	295	32 1/4	5	2	1	10-18	80
16	8 3/4	Reed	YHG	3/13	876498	5796	32	5 3/4	4	1	1	14	80
17	8 3/4	Reed	YHG	3/13	758853	5857	61	10 3/4	7	1	1	14	80
18	8 3/4	Reed	SHG	3/13	879373	5906	49	9 3/4	6	1	1	12	80
12	8 3/4	HW	RX55R	3/13	9836	6080	174	31	1	4	1	5	80
19	8 3/4	Reed	S1G	3/13	883814	6110	30	10 1/2	2	1	1	5	80
20	8 3/4	HW	RX55R	3/13	95772	6362	252	39 1/2	2	1	1	12	80
21	8 3/4	HW	RX55R	3/13	9727	6512	150	22	6	2	1	12	80
1D 6 3/4	8 3/4	Chris	Dia.	-	EC1014	6545	33	5 3/4	(Good)			16	70
22	8 3/4	HW	RRG7X	3/13	5741	6706	161	19 1/4	5	2	1	10-25	70
1D 6 3/4	8 3/4	Chris	Dia.	-	EC1014	6729	23	3 1/2	(Good)			10	60
23	8 3/4	HW	RRG7X	out	99134	7071	342	33 3/4	1	4	1	25	60
24	8 3/4	HW	RRX55R	out	198058	7300	229	19	1	1	1	25	60

(r) Bit Record

MUD RECORD

Date	Depth	Wt.	Vis.	W.L.	F.C.	Ph.	Mud and Additives
-25	4928'	8.6	32	17.0	2/32	10.0	28 bags Gel, 300# Bicarbonate, 10# Benex, 50# CMC
-26	5102'	8.7	31				50 bags Gel, 20# Benex, 50# Caustic
-27	5192'	8.7	38				75 bags Gel, 30# Benex, 50# Caustic
-28	5298'	8.7	37	12.2	2/32	9.5	36 bags Gel, 14# Benex, 50# CAustic
-29	5421'	8.7	39	10.2	2/32	9.0	45 bags Gel, 18# Benex, 50# Caustic
-30	5525'	8.8	40	10.0	2/32	9.0	18 bags Gel, 8# Benex, 250# Caustic
-31	5720'	8.7	37	10.2	2/32	[illegible]	46 bags Gel, 18# Benex, 100# Caustic, 50# CMC
2- 1	5796'	8.7	34	9.8	2/32	[illegible]	44 bags Gel, 26# Benex, 100# Caustic
2- 2	5857'	8.7	37	9.8	2/32	10.0	31 bags Gel, 15# Benex, 100# Caustic
2- 3	5932'	8.8	36	9.8	2/32	9.5	40 bags Gel, 16# Benex, 150# Caustic, 50# CMC
2- 4	6048'	8.7	36	9.4	2/32	9.5	20 bags Gel, 8# Benex, 100# Caustic, 50# CMC
2- 5	6110'	8.7	36	9.4	2/32	9.5	34 bags Gel, 14# Benex
2- 6	6185'	8.7	35	9.6	2/32	9.0	20 bags Gel, 8# Benex, 100# Caustic
2- 7	6332'	8.7	40	9.8	2/32	9.5	36 bags Gel, 14# Benex, 50# Caustic
2- 8	6386'	8.7	40	10.0	2/32	9.5	19 bags Gel, 8# Benex, 50# Caustic
2- 9	6476'	8.7	36	10.0	2/32	10.0	47 bags Gel, 18# Benex, 100# Caustic, 50# CMC
2-10	6535'	8.8	55	8.0	2/32	9.5	50 bags Gel, 20# Benex, 100# Caustic

ate	Depth	Wt.	Vis.	W.L.	F.C.	Ph.	Mud and Additives
-11	6616'	8.7	44	9.8	2/32	9.5	10 bags Gel, 4# Benex
-12	6721'	8.7	43	10.2	2/32	9.5	38 bags Gel, 12# Benex, 100# Caustic
-13	6766'	8.8	53	8.2 Lost circulation at 6729'	2/32	9.0	134 bags Gel, 150# Caustic, 50# Benex, 185 bags Sawdust, 15 bags Redwood Fibre, 10 bags Palco Seal, 4 bags Kwik Seal
-14	6982'	8.8	48	9.0	2/32	9.5	77 bags Gel, 30# Benex, 250# Caustic, 45 bags Sawdust, 2 bags Kwik Seal, 7 bags Redwood Fibre
-15	7031'	8.6	98	10.0 Lost circulation at 7001'		9.0	245 bags Gel, 400# Caustic, 596 bags Sawdust, 84# Benex, 100 bags Redwood Fibre, 55 bags Kwik Seal, 17 bags Palco Seal, 17 bags Cello-Seal
-16	7182'	8.7	60	8.4	2/32	8.5	35 bags Gel, 3 bags Palco Seal, 13 bags Kwik Seal 20# Benex, 60 bags Sawdust
-17	7300'	8.8	62	8.4	2/32	9.0	35 bags Gel, 12# Benex, 250# Caustic, 90 bags Sawdust, 5 bags Cello-Seal, 4 bags Redwood Fibre, 1 bag Palco Seal, 3 bags Kwik Seal
-18	7300'						20 bags Gel, 2 gals. DV-68, 50 bags Sawdust, 2 bags Redwood Fibre, 2 bags Kwik Seal, 2 bags Cello-Seal
-19	7300'	8.8	70	8.8	2/32	9.5	24 bags Gel, 3 gals. DV-68, 150# Caustic
-20	7300'	8.8	72	8.4	2/32	9.5	47 bags Gel, 6 gals. DV-68, 100# Caustic
-21	7300'						Nil
-22							Nil

Date	Depth	Wt.	Vis.	W.L.	F.C.	Ph.	Mud and Additives
2-23	7300'						Nil
2-24	7300'						Nil
2-25	7300'	8.7	48	9.6	2/32	9.5	45 bags Gel, 500# Peltex, 4 gals. DV-68, 200# Caustic
2-26	7300'	8.6	42	10.0	2/32	9.5	24 bags Gel, 3 gals. DV-68
2-27	7300'	8.7	47	9.8	2/32	9.5	16 bags Gel, 2 gals. DV-68, 50# Caustic
2-28	7300'	8.6	57	10.2	2/32	9.5	Nil
3- 1	7300'	8.7	53	9.4	2/32	9.5	23 bags Gel, 3 gals. DV-68
3- 2	7300'	8.7	50	9.8	2/32	9.5	16 bags Gel, 2 gals. DV-68, 100# Caustic
3- 3	7300'	8.7	56	9.6	2/32	9.5	16 bags Gel, 2 gals. DV-68
3- 4	7300'						Nil

(e) Deviation Record

SURVEY SUMMARY SHEET

Depth		Deviation
4805'		7 degrees
4830'		6 1/2 degrees
4979'		7 degrees
5069'		9 1/2 degrees
5099'		9 degrees
5165'		11 degrees
5177'		10 1/2 degrees
5196'		11 degrees
5228'		10 degrees
5261'		9 1/2 degrees
5295'		10 degrees
5355'		9 1/2 degrees
5385'		9 3/4 degrees
5415'		10 degrees
5465'		10 degrees
5510'		11 degrees
5542'		10 degrees
5573'		11 degrees
5635'		10 degrees
5698'		11 degrees
5764'		11 1/2 degrees
5800'		11 1/2 degrees
5830'		12 1/2 degrees
5857'		13 1/2 degrees
5890'		14 degrees
5906'		14 degrees
5954'		14 degrees
5985'		14 1/2 degrees
6048'		14 1/2 degrees
6080'		15 degrees
6110'		15 degrees
6142'		14 1/2 degrees
6172'		15 degrees
6235'		15 degrees
6298'		15 1/2 degrees
6384'		16 degrees
6416'		17 degrees
6445'		16 1/2 degrees
6476'		16 1/2 degrees
6512'		16 degrees
6500'	N-87-W	15 1/2 degrees
6545'	N-86-W	15 1/2 degrees
6657'	N-89-W	14 degrees
6700'	S-89-W	13 1/4 degrees
6821'	S-86-W	12 1/2 degrees
6947'	S-85-W	10 1/2 degrees
7070'	S-86-W	9 1/2 degrees
7300'		8 degrees

SPERRY-SUN

DIRECTIONAL SURVEY REPORT

FOR

CENTRAL DEL RIO OILS LTD.

TYPE OF SURVEY: Surwel Gyroscopic

SURVEY DEPTH: FROM 0 FT. TO 6,400 FT.

LEASE: CPOG et al LaBiche WELL NO. F08

FIELD: LaBiche River

COUNTY/PARISH NWT STATE Canada

DATE OF SURVEY 2-9-71 JOB NO. SUR-695

OFFICE: Edmonton - Alberta

SP-139C

SPERRY-SUN OF CANADA LIMITED
CALGARY,ALTA

DIRECTIONAL SURVEY CALCULATIONS

CUSTOMER--CENTRAL DEL RIO OILS LTD
ADDRESS--205-9TH AVE SE CALGARY ALTA
HOLE NUMBER--CPOG ET AL LABICHE F08
JOB NUMBER--SUR-695
DATE OF SURVEY--2-9-71
TYPE OF SURVEY--SLIMHOLE 3 INCH
SURVEYED AT 100 FOOT INTERVALS
SURVEYED ON SAND LINE
DISTRICT OFFICE--EDMONTON
SURVEY OPERATOR--MARTIN
SURVEY HELPER-- PARKER
FILM READ BY--CEM
RE-READ BY-- RAP
SURVEY PROCESSED BY--IBM CANADA

HOLE INFORMATION

TOTAL DEPTH--6400
CASING SIZE AND DEPTH--9 5/8 INCH TO 4730 FEET
OPEN HOLE SIZE--8 3/4 TO DEPTH OF 6460 FEET
SURVEYED FROM 0 FEET TO 6400 FEET
REFERENCE ORIENTATION OBJECT--STAKE
REFERENCE BEARING USED--S 73.0E
REFERENCE SUPPLIED BY-- BRUNTON
TRUE NORTH POINTER--253

STABILIZER DISTANCE-- 22.00

NABORS RIG 10

SUR-695

IN RUN SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	LATITUDE	DEPARTURE
0.	0.0	0 0	N 0 0 E	0.0 N	0.0 E
100.	100.00	0 30	S 17 8 E	0.51 S	0.16 E
200.	199.99	0 30	S 1 45 E	1.37 S	0.27 E
300.	299.99	0 32	S 3 26 W	2.27 S	0.25 E
400.	399.99	0 33	S 35 20 W	3.11 S	0.11 W
500.	499.98	0 31	S 43 58 W	3.81 S	0.71 W
600.	599.97	0 42	S 36 6 W	4.67 S	1.40 W
700.	699.97	0 44	S 45 10 W	5.62 S	2.24 W
800.	799.96	0 48	S 45 22 W	6.56 S	3.20 W
900.	899.95	0 43	S 45 40 W	7.48 S	4.13 W
1000.	999.94	0 43	S 45 33 W	8.35 S	5.02 W
1100.	1099.93	1 3	S 57 25 W	9.29 S	6.31 W
1200.	1199.91	0 57	S 45 29 W	10.39 S	7.63 W
1300.	1299.90	1 3	S 56 33 W	11.46 S	9.02 W
1400.	1399.88	0 58	S 59 27 W	12.38 S	10.51 W
1500.	1499.87	0 57	S 58 32 W	13.24 S	11.95 W
1600.	1599.85	0 58	S 66 50 W	13.99 S	13.45 W
1700.	1699.84	0 57	S 73 11 W	14.54 S	15.03 W
1800.	1799.83	0 59	N 74 3 W	14.44 S	16.65 W
1900.	1899.81	0 48	N 39 33 W	13.60 S	17.83 W
2000.	1999.80	0 59	N 24 17 W	12.22 S	18.61 W
2100.	2099.79	0 58	N 3 39 W	10.58 S	18.95 W
2200.	2199.77	1 14	N 17 33 E	8.68 S	18.60 W
2300.	2299.64	3 30	N 67 45 E	6.48 S	14.91 W
2400.	2399.44	3 47	N 52 26 E	3.12 S	9.51 W
2500.	2499.27	2 58	N 37 48 E	0.95 N	5.53 W
2600.	2599.17	2 13	N 30 39 E	4.58 N	3.08 W
2700.	2699.11	1 58	N 28 41 E	7.72 N	1.30 W
2800.	2799.06	1 45	N 4 51 E	10.76 N	0.50 W
2900.	2899.00	2 2	N 42 35 W	13.54 N	1.86 W
3000.	2998.89	3 3	N 59 43 W	16.19 N	5.59 W
3100.	3098.76	2 48	N 70 13 W	18.24 N	10.17 W
3200.	3198.60	3 32	N 53 44 W	21.10 N	14.99 W
3300.	3298.38	3 59	N 48 31 W	25.33 N	20.11 W
3400.	3398.14	3 58	N 38 20 W	30.43 N	24.75 W
3500.	3498.00	2 13	N 39 48 W	34.36 N	27.94 W
3600.	3597.92	2 16	N 35 52 W	37.48 N	30.32 W
3700.	3697.83	2 32	N 45 6 W	40.63 N	33.13 W
3800.	3797.69	3 17	N 52 9 W	44.00 N	37.12 W
3900.	3897.46	4 16	N 52 56 W	48.11 N	42.51 W
4000.	3997.14	4 44	N 66 51 W	51.84 N	49.46 W
4100.	4096.73	5 27	N 68 55 W	55.19 N	57.84 W
4200.	4196.20	6 14	N 68 22 W	58.96 N	67.46 W
4300.	4295.54	6 45	N 63 18 W	63.74 N	77.80 W
4400.	4394.88	6 29	N 73 10 W	67.79 N	88.48 W
4500.	4494.24	6 29	N 74 9 W	70.95 N	99.32 W
4600.	4593.60	6 32	N 78 54 W	73.49 N	110.37 W
4700.	4692.88	7 3	S 88 26 W	74.14 N	122.21 W
4800.	4792.16	6 46	N 87 12 W	74.36 N	134.18 W
4900.	4891.53	6 13	N 87 16 W	74.90 N	145.36 W

SUR-695

MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	LATITUDE	DEPARTURE
5000.	4990.64	8 28	N 87 35 W	75.47 N	158.55 W
5100.	5089.25	10 12	N 89 18 W	75.84 N	175.10 W
5200.	5187.71	9 57	S 88 41 W	75.69 N	192.55 W
5300.	5286.29	9 29	S 88 4 W	75.20 N	209.34 W
5400.	5384.78	10 17	S 85 0 W	74.03 N	226.62 W
5500.	5483.07	10 46	S 83 54 W	72.22 N	244.89 W
5600.	5581.41	10 17	S 86 58 W	70.87 N	263.02 W
5700.	5679.60	11 17	S 83 58 W	69.24 N	281.84 W
5800.	5777.41	12 28	S 88 56 W	68.20 N	302.60 W
5900.	5874.69	13 58	S 89 57 W	68.03 N	325.74 W
6000.	5971.53	14 43	S 88 56 W	67.74 N	350.64 W
6100.	6068.25	14 44	S 89 46 W	67.49 N	376.05 W
6200.	6164.67	15 46	S 86 41 W	66.50 N	402.52 W
6300.	6260.75	16 18	S 86 42 W	64.91 N	430.19 W
6400.	6356.89	15 46	S 88 1 W	63.71 N	457.68 W

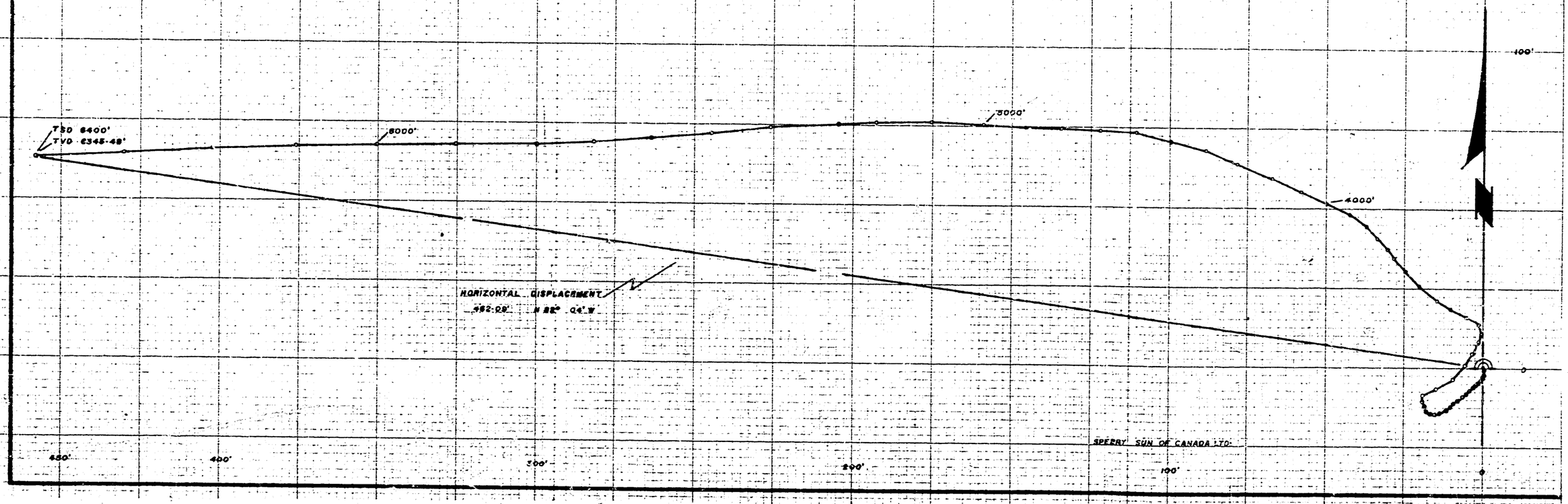
HORIZONTAL DISPLACEMENT AT DEPTH 6400. IS 462.09 FEET AT N 82 4 W.
TRUE VERTICAL DEPTH IS 6356.89

6500	15½°	N 87 W.
6662	15½°	N 87 W.
6700	13 ¼°	S 89 W.
6821	12½°	S 86 W
6947	10½°	S 85 W.
7070'	9½°	S 86 W

CPOG ET AL LABICHE F08

HORIZONTAL PROJECTION

scale 1" = 25'



MADE IN USA
KEUFFEL & ESSER CO

SPERRY-SUN

DIRECTIONAL SURVEY REPORT

FOR

CENTRAL-DEL RIO OILS LTD.

TYPE OF SURVEY: Surwel Gyroscopic & C.D.R. Magnetic Single Shot

SURVEY DEPTH: FROM 0 FT. TO 7,070 FT.

LEASE: CPOG et al LaBiche WELL NO. F 08

FIELD: LaBiche River

COUNTY/PARISH NWT STATE Canada

DATE OF SURVEY February, 1971 JOB NO. SUR-695 & SS-693

OFFICE: Edmonton - Alberta

SP-136C

SPERRY-SUN OF CANADA LIMITED
CALGARY, ALTA

DIRECTIONAL SURVEY CALCULATIONS

CUSTOMER--CENTRAL-DEL RIO OILS LTD.
ADDRESS--205-9TH AVE SE CALGARY ALTA
HOLE NUMBER--CPOG ET AL LABICHE F C8
JOB NUMBER--SS-693
DATE OF SURVEY--FEB 1971
TYPE OF SURVEY--MAGNETIC SINGLE SHOT
SURVEYED AT 100 FOOT INTERVALS
SURVEYED ON DRILL PIPE
DISTRICT OFFICE--EDMONTON
SURVEY OPERATOR--CENTRAL-DEL RIO OILS LTD
SURVEY HELPER--
FILM READ BY--CENTRAL-DEL RIO OILS LTD.
RE-READ BY--
SURVEY PROCESSED BY--IBM

HOLE INFORMATION

TOTAL DEPTH--7070
CASING SIZE AND DEPTH--9 5/8 INCH TO 4730 FEET
OPEN HOLE SIZE--8 3/4 TO DEPTH OF 7300 FEET
SURVEYED FROM 6400 FEET TO 7070 FEET
STARTING COORDINATES FROM JOB NO. SUR-695 DATED FEB 9 1971
BEARING--S 88. 1.W
INCLINATION-- 15.46.
MEASURED DEPTH-- 6400.00
LATITUDE-- 63.71 N
DEPARTURE-- 457.68 W
T.V.D.-- 6356.89

STABILIZER DISTANCE-- 22.00

SUR-695

IN RUN SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	LATITUDE	DEPARTURE
0.	0.0	0 0	N 0 0 E	0.0 N	0.0 E
100.	100.00	0 30	S 17 8 E	0.51 S	0.16 E
200.	199.99	0 30	S 1 45 E	1.57 S	0.27 E
300.	299.99	0 32	S 3 26 E	2.27 S	0.25 E
400.	399.99	0 33	S 35 20 E	3.11 S	0.11 E
500.	499.98	0 31	S 43 58 E	3.81 S	0.71 E
600.	599.97	0 42	S 36 6 E	4.67 S	1.40 E
700.	699.97	0 44	S 45 10 E	5.62 S	2.24 E
800.	799.96	0 48	S 45 22 E	6.56 S	3.20 E
900.	899.95	0 43	S 45 40 E	7.48 S	4.13 E
1000.	999.94	0 43	S 45 35 E	8.35 S	5.02 E
1100.	1099.93	1 3	S 57 26 E	9.29 S	6.31 E
1200.	1199.91	0 57	S 45 29 E	10.30 S	7.53 E
1300.	1299.90	1 3	S 55 35 E	11.46 S	9.12 E
1400.	1399.88	0 58	S 59 27 E	12.38 S	10.51 E
1500.	1499.87	0 57	S 58 32 E	13.24 S	11.95 E
1600.	1599.85	0 58	S 66 50 E	13.99 S	13.45 E
1700.	1699.84	0 57	S 73 11 E	14.54 S	15.03 E
1800.	1799.83	0 59	N 74 3 E	14.44 S	16.65 E
1900.	1899.81	0 48	N 39 33 E	13.60 S	17.83 E
2000.	1999.80	0 59	N 24 17 E	12.22 S	18.61 E
2100.	2099.79	0 55	N 3 39 E	10.58 S	18.95 E
2200.	2199.77	1 14	N 17 33 E	8.68 S	18.60 E
2300.	2299.64	3 30	N 67 45 E	6.48 S	14.91 E
2400.	2399.44	3 47	N 52 26 E	3.12 S	9.91 E
2500.	2499.27	2 58	N 37 48 E	0.99 N	5.55 E
2600.	2599.17	2 13	N 30 39 E	4.58 N	3.08 E
2700.	2699.11	1 58	N 28 41 E	7.72 N	1.30 E
2800.	2799.06	1 45	N 4 51 E	10.76 N	0.58 E
2900.	2899.00	2 2	N 42 35 E	13.54 N	1.66 E
3000.	2998.89	3 3	N 59 43 E	16.19 N	5.59 E
3100.	3098.76	2 48	N 70 13 W	18.24 N	10.17 E
3200.	3198.60	3 32	N 53 44 W	21.10 N	14.99 E
3300.	3298.38	3 59	N 48 31 W	23.33 N	20.11 E
3400.	3398.14	3 58	N 38 20 W	26.43 N	24.75 E
3500.	3498.00	2 13	N 39 46 W	34.36 N	27.94 E
3600.	3597.92	2 16	N 35 52 W	37.48 N	30.32 E
3700.	3697.83	2 32	N 45 6 W	40.63 N	33.13 E
3800.	3797.69	3 17	N 52 9 W	44.00 N	37.12 E
3900.	3897.46	4 16	N 52 56 W	48.11 N	42.51 E
4000.	3997.14	4 44	N 66 51 W	51.84 N	49.46 E
4100.	4096.73	5 27	N 68 55 W	55.19 N	57.44 E
4200.	4196.20	6 14	N 68 22 W	58.96 N	67.45 E
4300.	4295.54	6 45	N 63 18 W	63.74 N	77.80 E
4400.	4394.28	6 29	N 73 10 W	67.79 N	88.46 E
4500.	4494.24	6 29	N 74 9 W	70.95 N	99.32 E
4600.	4593.60	6 32	N 78 54 W	73.49 N	110.37 E
4700.	4692.86	7 3	S 88 26 W	74.14 N	122.21 E
4800.	4792.10	6 46	N 87 12 W	74.56 N	134.18 E
4900.	4891.53	6 13	N 87 16 W	74.90 N	145.36 E

SUR-695

MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	LATITUDE	DEPARTURE
5000.	4990.64	8 28	N 87 35 W	75.47 N	158.55 W
5100.	5089.25	10 12	N 89 16 W	75.84 N	175.10 W
5200.	5187.71	9 57	S 88 41 W	75.69 N	192.55 W
5300.	5286.29	9 29	S 88 4 W	75.29 N	209.34 W
5400.	5384.78	10 17	S 85 0 W	74.03 N	226.62 W
5500.	5483.07	10 46	S 83 54 W	72.22 N	244.89 W
5600.	5581.41	10 17	S 86 58 W	70.87 N	263.02 W
5700.	5679.70	11 17	S 83 58 W	69.24 N	281.84 W
5800.	5777.41	12 28	S 88 56 W	68.20 N	302.60 W
5900.	5874.69	13 58	S 89 57 W	68.03 N	325.74 W
6000.	5971.53	14 43	S 88 56 W	67.74 N	350.64 W
6100.	6068.25	14 44	S 89 46 W	67.49 N	376.05 W
6200.	6164.67	15 46	S 86 41 W	66.50 N	402.52 W
6300.	6260.75	16 18	S 86 42 W	64.91 N	430.19 W
6400.	6356.89	15 46	S 88 1 W	63.71 N	457.68 W

HORIZONTAL DISPLACEMENT AT DEPTH 6400. IS 462.09 FEET AT N 82 4 W.
TRUE VERTICAL DEPTH IS 6356.89

SS-693

IN RUN SURVEY

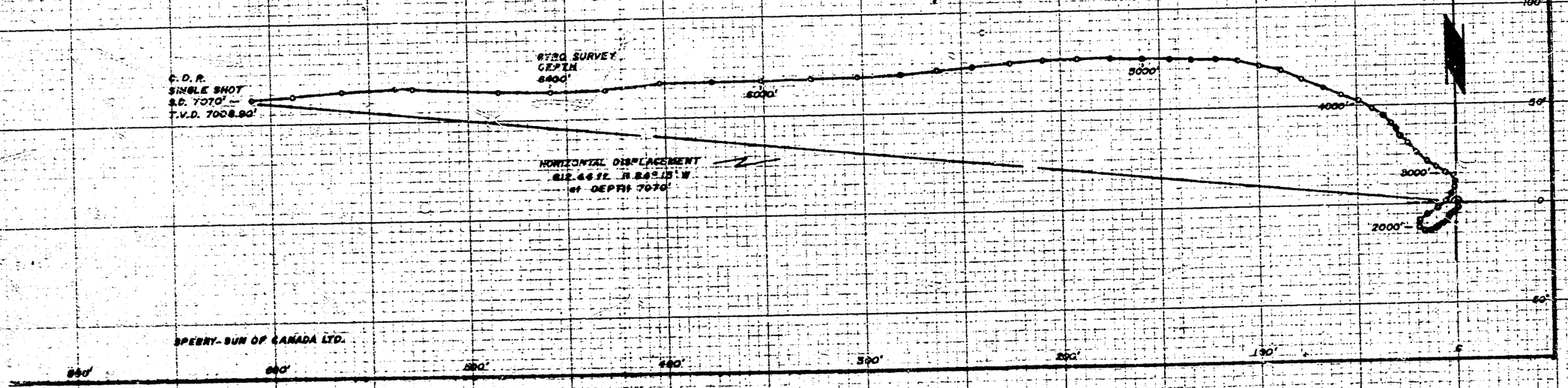
MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	LATITUDE	DEPARTURE
6400.	6356.89	15 46	S 88 1 W	63.71 N	457.48 W
6500.	6453.20	15 30	N 87 0 W	64.20 N	484.55 W
6662.	6609.31	15 30	N 87 0 W	66.46 N	527.78 W
6700.	6646.22	13 15	S 89 0 W	66.45 N	536.79 W
6821.	6764.21	12 30	S 86 0 W	65.18 N	563.57 W
6947.	6887.74	10 30	S 85 0 W	63.22 N	588.24 W
7070.	7008.90	9 30	S 86 0 W	61.58 N	609.34 W

HORIZONTAL DISPLACEMENT AT DEPTH 7070. IS 612.44 FEET AT N 84 13 W.
TRUE VERTICAL DEPTH IS 7008.90

CPOG et al La BICHE F 08

HORIZONTAL PROJECTION

scale 1" = 50'



(f) Abandonment Plugs

None

SECTION III - Engineering Summary

(g) Lost Circulation Zones

Date	Depth	
February 13, 1971		Lost 520 bbls to formation @ 6729' Mixed 185 sacks Sawdust 15 bags Redwood Fibre 10 bags Palco Seal 4 bags Kwik Seal 150 gel 150# Caustic 50# Benex
February 14, 1971	6982'	45 bags Sawdust 2 Sacks Kwik Seal 7 Sacks Redwood Fibre 77 bags Gel 30# Benex, 250# Caustic
February 15, 1971	7031'	Lost 950 bbls to formation @ 7001' (6 to 10 bbls/hour) Mixed 596 sacks Sawdust 245 bags Gel, 400# Caustic 84 bags Benex 100 bags Redwood Fibre 55 bags Kwik Seal 17 bags Palco Seal 17 bags Cello-Seal
February 16, 1971	7182'	35 bags Gel, 3 bags Palco Seal 13 bags Kwick Seal 20 bags Benex 60 bags Sawdust
February 17, 1971	7300'	35 bags Gel 12# Benex 250# Caustic 90 bags Sawdust 5 bags Cello-Seal 4 bags Redwood Fibre 1 bag Palco Seal 3 bags Kwik Seal
February 18, 1971	7300'	20 bags Gel, 2 gals DV68 50 bags Sawdust 2 bags Redwood Fibre, 2 bags Kwik Seal 2 bags Cello-Seal

(h) Report of Blowouts

None

SECTION IV

LOGS

SECTION IV - Logs

Date Run	Type of Log	Intervals
16 Feb 71	Dual Induction Laterolog	7296' - 4730'
16 Feb 71	Intergrated Borehole Compensated Sonic Log w/Caliper and Gamma Ray	7292' - 4735'
16 Feb 71	Sidewall Neutron Porosity Log	7297' - 5797'
17 Feb 71	Formation Density Log	7296' - 5796'
17 Feb 71	Density - Neutron Overlay	7297' - 5797'
17 Feb 71	Continuous Dipmeter (Computed)	7271' - 4730'
7 Mar 71	Cement Bond Log	7250' - 4850'
7 Mar 71	Gamma Ray- Neutron Log	7250' - 6300'
7 Mar 71	Completion Record	
17 Feb 71	Coriband - Synergetic Log Systems	
February 1971	Velocity Survey	

SECTION V

ANALYSIS

SECTION V - ANALYSIS

(a) Core Analysis - Core Laboratories - Canada, Ltd. (File 913-158)

Core No. 1: 6512 - 6545 Rec: 29' (7 boxes)
Core No. 2: 6706 - 6729 Rec: 18.5' (4 boxes)

(b) Water Analysis - Chemical & Geological Laboratories Ltd.

DST #1 (M.F.E.)	C71-2937-4
DST #2 (bottom)	C71-2938-3
DST #3 (bottom)	C71-2939-3
DST #5 (M.F.E.)	C71-3002-5
DST #6 (M.F.E.)	C71-3003-5
Stock Tank	C71-3001-7
Swab 52	F71-2115-1
Swab 53	F71-2115-2
Bottom of Tubing	F71-2115-3
	C71-3019

(c) Gas Analysis - Chemical & Geological Laboratories Ltd.

Meter Run Separator	C71-2877
Flareline (DST #2)	C71-2823-1
Flareline (DST #3)	C71-2823-2

(d) Oil Analysis

- N I L -

CORE LABORATORIES - CANADA. LTD.

Company	CENTRAL-DEL RIO OILS LIMITED	**Formation**		**Page**	1 of 3
Well	CDR CPOG ET AL LA BICHE K-08	**Drilling Fluid**	WATER BASE MUD	**File**	913-158
Field	WILDCAT, LA BICHE RIVER AREA, NORTH WEST TERRITORIES	**Elevation**		**Date Report**	FEB. 25/71
		Analysis	FULL DIAMETER & RESIDUAL SATURATIONS	**Analysts**	CC MH RM
Location	60° 37' 30.00" N.LAT.	**Remarks**	ALL SAMPLES SANDBLASTED PRIOR TO KH ANALYSIS.		
	134° 31' 00.00" W.LONG.				

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per Cent	Porosity Feet	Density, gm./cc.		Residual Saturations, Per Cent Pore Space		Visual Examination
	Depth	Thick	K Max	K$_{90}$	KV				Bulk	Grain	Oil	Total Water	
	CORED INTERVAL 6512' - 6729'												
	CORE NO. 1 6512' - 6545' (REC. 29') (7 BOXES)												
1	6512.0-14.3	2.3	0.68	0.20	-0.01	1.56	0.8	1.84	2.68	2.71	0.0	22.0	DENSE F CAL
2	6514.3-16.5	2.2	1.04	0.49	0.08	2.29	0.7	1.54	2.70	2.72	0.0	19.1	DENSE F CAL
3	6516.5-18.8	2.3	0.18	0.14	-0.01	0.41	0.8	1.84	2.67	2.69	0.0	28.4	DENSE F CAL
4	6518.8-20.8	2.0	0.35	0.20	-0.01	0.70	0.7	1.40	2.68	2.70	0.0	25.2	DENSE F CAL
5	6520.8-22.5	1.7	0.61	0.29	0.11	1.04	1.2	2.04	2.67	2.70	0.0	16.6	DENSE STY F CAL
-	6522.5-23.3	0.8	-	-	-	-	-	-	-	-	-	-	CAL
6	6523.3-23.9	0.6	3.52	3.13	3.12	2.11	6.8	4.08	2.50	2.68	0.0	4.4	I F CAL
7	6523.9-26.4	2.5	9.55	8.96	3.82	23.88	24.9	62.25	1.96	2.61	0.0	16.2	I
8	6526.4-28.3	1.9	0.86	0.80	0.05	1.63	1.2	2.28	2.68	2.71	0.0	11.2	DENSE F CAL
9	6528.3-30.5	2.2	0.77	0.63	0.11	1.69	1.0	2.20	2.69	2.72	0.0	17.6	DENSE F CAL
10	6530.5-32.3	1.8	0.38	0.09	0.29	0.68	1.7	3.06	2.67	2.71	0.0	15.0	I STY F CAL
11	6532.3-34.2	1.9	1.36	0.80	0.41	2.58	2.3	4.37	2.65	2.71	0.0	17.0	I STY F CAL
12	6534.2-36.4	2.2	98.30	90.80	3.98	216.26	4.0	8.80	2.59	2.70	0.0	21.3	I STY F CAL
13	6536.4-38.2	1.8	54.80	51.80	0.68	98.64	1.0	1.80	2.67	2.70	0.0	10.7	DENSE F CAL
14	6538.2-39.7	1.5	4.55	2.70	0.72	6.83	1.7	2.55	2.66	2.70	0.0	13.9	I F STY
15	6539.7-41.0	1.3	3.20	1.92	0.55	4.16	1.2	1.56	2.69	2.72	0.0	20.3	I F CAL
-	6541.0-45.0	4.0	-	-	-	-	-	-	-	-	-	-	LOST CORE.
-	6545.0-06.0	161.0	-	-	-	-	-	-	-	-	-	-	DRILLED.
	CORE NO. 2 6706' - 6729' (REC. 18.5') (4 BOXES)												
16	6706.0-06.7	0.7	13.10	0.51	0.32	9.17	1.0	0.70	2.68	2.70	0.0	14.3	DENSE STY F CAL
17	6706.7-09.0	2.3	2.09	1.25	0.64	4.81	1.8	4.14	2.78	2.83	0.0	3.1	PPV F CAL
18	6709.0-10.5	1.5	1.96	1.33	0.72	2.94	2.1	3.15	2.76	2.81	0.0	8.2	PPV F CAL
19	6710.5-12.0	1.5	21.00	8.03	2.24	31.50	3.1	4.65	2.74	2.83	0.0	10.0	FEW SV F CAL

Company CENTRAL-DEL RIO OILS LIMITED
Well CDR CPOG ET AL LA BICHE K-08
Formation
Drilling Fluid WATER BASE MUD

File 913-158

Sample Number	Interval Represented, Feet		Permeability to Air, Millidarcys			Permeability Feet	Porosity, Per Cent	Porosity Feet	Density, gm./cc.		Residual Saturations, Per Cent Pore Space		Visual Examination
	Depth	Thick	K Max	K90°	KV				Bulk	Grain	Oil	Total Water	
	CORE NO. 2 (Cont'd)												
20	6712.0-13.7	1.7	1.66	1.11	0.20	2.82	2.1	3.57	2.77	2.83	0.0	20.7	FEW SV F CAL
21	6713.7-15.3	1.6	53.90	2.34	0.58	86.24	2.2	3.52	2.75	2.82	0.0	19.4	FEW PPV F
22	6715.3-16.6	1.3	0.59	0.39	0.05	0.77	3.5	4.55	2.71	2.81	0.0	23.4	PPV
23	6716.6-18.1	1.5	0.78	0.60	0.02	1.17	2.4	3.60	2.76	2.83	0.0	8.1	PPV
24	6718.1-19.4	1.3	2.82	2.51	0.34	3.67	2.5	3.25	2.77	2.84	0.0	9.1	I STY F
25	6719.4-21.1	1.7	7.00	2.89	0.12	11.90	1.9	3.23	2.77	2.83	0.0	14.2	PPV F CAL
26	6721.1-22.7	1.6	0.26	0.24	-0.01	0.42	1.9	3.04	2.77	2.82	0.0	9.5	PPV CAL
27	6722.7-24.5	1.8	0.63	0.56	-0.01	1.13	3.0	5.40	2.73	2.82	0.0	9.2	PPV
-	6724.5-29.0	4.5	-	-	-	-	-	-	-	-	-	-	LOST CORE.

CORE LABORATORIES — CANADA, LTD.

Petroleum Reservoir Engineering

WELL: CDR CPOG ET AL LA BICHE K-08

FORMATION:

FILE: 913-158

SUMMARY INTERVAL: 6512.0 - 6729.0

TOTAL FOOTAGE: 217.0

FOOTAGE ANALYZED 46.7

FOOTAGE NOT ANALYZED: TOTAL: 170.3 DENSE .8 LOST 8.5 DRILLED 161.0 *NABR .0 RUBBLE .0

SUMMARY OF ANALYZED CORE:

	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS. %	POROSITY FEET	WEIGHTED AVERAGE PERM. MD.	PERM. FEET	WEIGHTED AVERAGE RESID. OIL %	WEIGHTED AVERAGE TOT. WATER %
TOTAL	46.7	100.00	3.09	144.41	11.16	521.00	.00	15.95
BY PERM RANGES:								
LESS THAN 0.10 Md.	.0	.00	.00	.00	.00	.00	.00	.00
0.10 0.49 Md.	7.7	16.49	1.21	9.34	.29	2.21	.00	20.51
0.50 0.99 Md.	12.7	27.19	1.73	21.91	.71	9.00	.00	15.59
1.00 9.99 Md.	18.5	39.62	5.06	93.69	3.67	67.98	.00	14.42
GREATER THAN 9.99 Md.	7.8	16.70	2.50	19.47	56.64	441.81	.00	15.66

*NOT ANALYZED BY REQUEST

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS Lab No. C71-2937-4

Received: Feb.24,1971 Reported: Feb.26,1971 Well: Location: CPOG et al La Biche 60°41'N - 124° 31'W

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area:

Elev.: K.B. 4274' Grd. 4257' Zone/Formation: Middle Devonian Sample Interval: 7060' - 7300'

Method of Production: D.S.T. #1 Sampled from: M.F.E. Sampled by: S. Janz Date: Feb.19,1971

OTHER PERTINENT DATA Recovered 385'

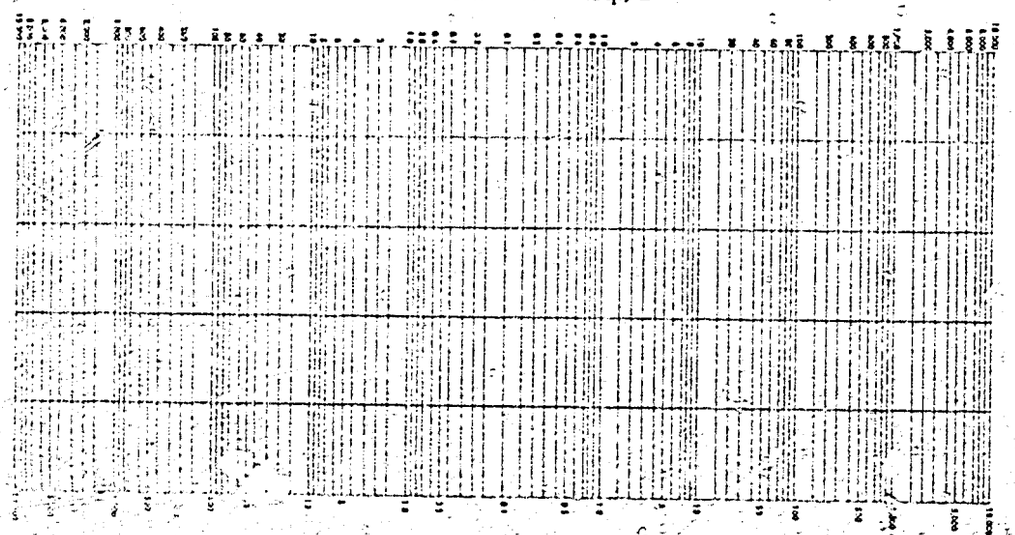
(Signed)

	Na & K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L										1100						
Meq./L										31.02						
Meq./%																

Total Solids Mg/L: By Evaporation 5,560 Fe Present Specific Gravity @60°F Observed pH 8.4 @ 74°F

Calculated After Ignition 3,510 H_2S Nil Refractive Index @25°C Resistivity 1.69 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions:
The sample as received, was a mud. The filtrate was red-brown in color. Much organic matter was present in the evaporated solids.

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (OHM-meters at 68°F)
C71-2937-1	Top	2.70
C71-2937-2	Middle	2.40
C71-2937-3	Bottom	1.70

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. C71-2938-3

Received: Feb.24,1971 Reported: Feb.26,1971

Well: Location: CPOG et al La Biche 60° 41' N - 124° 31' W

Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area:

Elev.: K.B. 4274' Grd. 4257' Zone/Formation: Middle Devonian

Sample Interval: 6420' - 6516'

Method of Production: D.S.T. #2 Sampled from: Bottom

Sampled by: S. Janz Date: Feb.20,1971

OTHER PERTINENT DATA Recovered 1385'

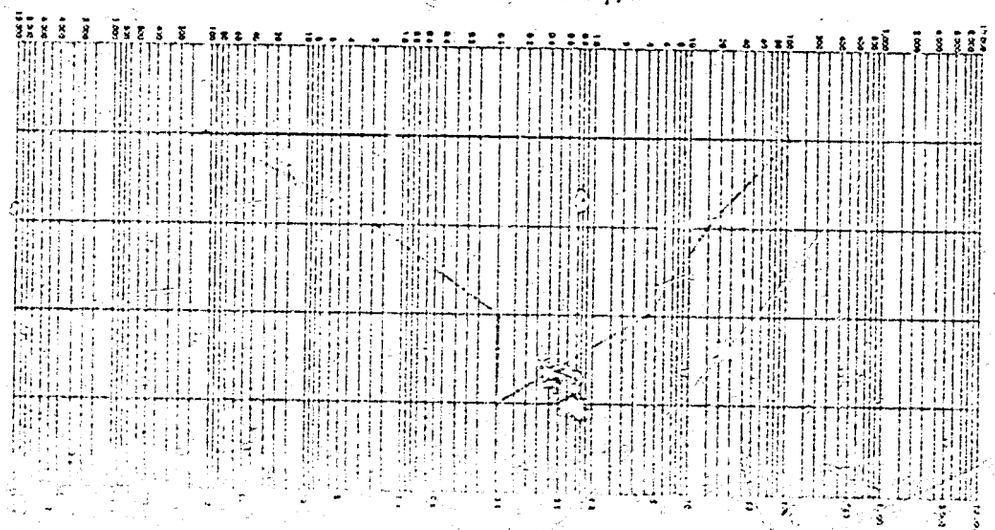
(Signed)

	Na & K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	2820		38	Trace					202	3740				900		
Meq./L	122.53		1.90	Trace					4.20	105.47				14.76		
Meq. %	49.24		0.76						1.69	42.38				5.93		

Total Solids Mg./L: By Evaporation 7,850 Fe Present Specific Gravity 1.004 @60°F Observed pH 6.4 @ 74 °F

Calculated 7,700 After Ignition 7,000 H_2S Nil Refractive Index 1.3344 @25°C Resistivity 0.88 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample as received, contained a trace of black sediment. The filtrate was colorless.

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (OHM-meters at 68°F)
C71-2938-1	Top	2.08
C71-2938-2	Middle	1.33
C71-2938-4	MFE	0.98

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. C71-2939-

Received: Feb.24,1971 Reported: Feb.26,1971

Well: Location: CPOG et al La Biche 60° 41' N - 124° 31' W

Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area:

Elev.: K.B. 4274' Grd. 4257' Zone/Formation: Middle Devonian

Sample Interval: 6420' - 6475'

Method of Production: D.S.T. #3 Sampled from: Bottom

Sampled by: S. Janz Date: Feb.21,1971

OTHER PERTINENT DATA Recovered 545'

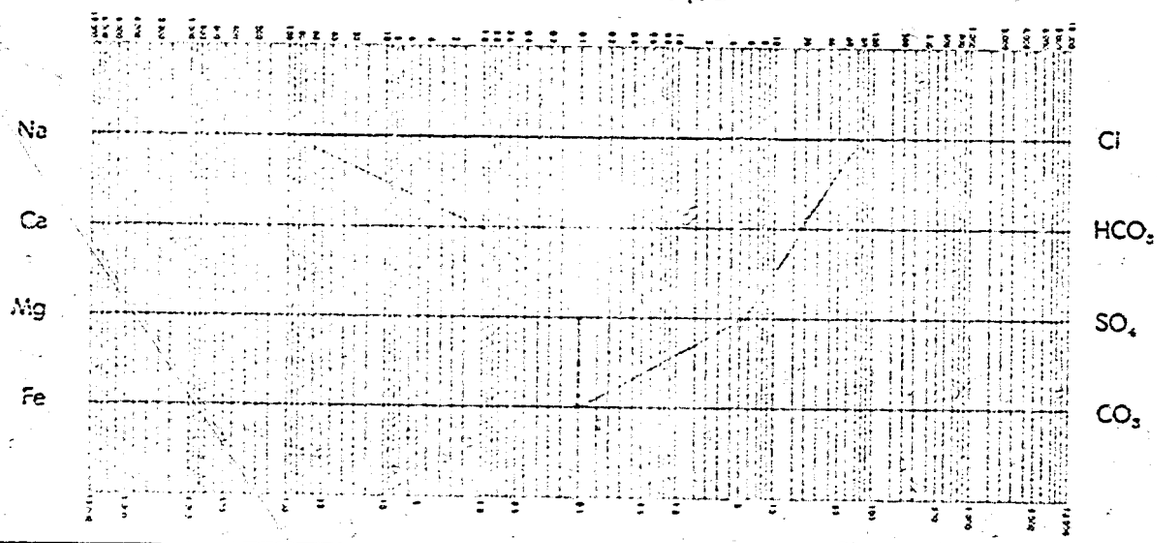
(Signed)

	Na & K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	2300		20	Trace					268	2730				1120		
Meq./L	99.93		1.00	Trace					5.57	76.99				18.37		
Meq. %	49.50		0.50						2.76	38.14				9.10		

Total Solids Mg/L: By Evaporation 6,330 Fe Present Specific Gravity 1.004 @60°F Observed pH 6.8 @ 74 °F

Calculated 6,438 After Ignition 5,600 H_2S Nil Refractive Index 1.3341 @25°C Resistivity 1.1 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample as received, contained a trace of black sediment. The filtrate was colorless.

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (OHM-meters at 68°F)
C71-2939-1	Top	1.9
C71-2939-2	Middle	1.6

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. C71-3002-5

Received: Mar. 19, 1971 Reported: Mar. 31, 1971 Well: Location: CPOG et al La Biche F-08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area:

Elev.: K.B. 4274.4' Grd. Zone/Formation: Middle Devonian Sample Interval: 7110' - 7138'

Method of Production: D.S.T. #5 Sampled from: M.F.E. Sampled by: S. Janz Date: Mar. 7, 1971

OTHER PERTINENT DATA Recovered 4370'.

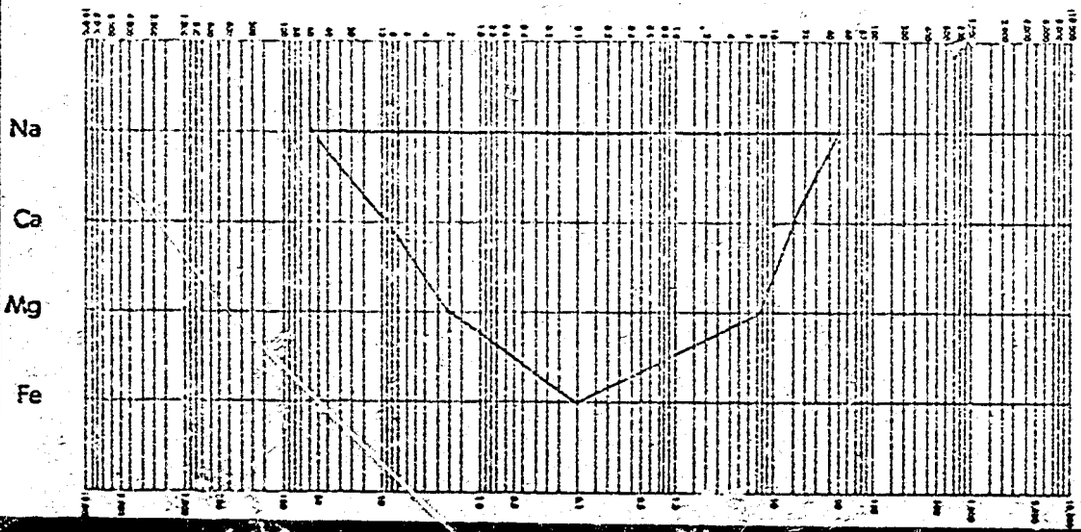
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	1400		186	27					367	1750				930		
Meq./L	60.73		9.28	2.22					7.63	49.35				15.25		
Meq. %	42.04		6.42	1.54					5.28	34.16				10.56		

Total Solids Mg/L: By Evaporation 4900 Fe Much Specific Gravity 1.004 @60°F Observed pH 8.1 @ 72 °F

Calculated 4660 After Ignition 4190 H_2S Nil Refractive Index 1.3336 @25°C Resistivity 1.5 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample as received was a muddy water. The filtrate was yellow-brown in colour. Organic matter was present in the evaporated solids.

continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

OPERATOR: CENTRAL-DEL RIO OILS LIMITED REPORT NUMBER: C71-3002

DATE SAMPLED: March 7, 1971 DATE RECEIVED: March 19, 1971 DATE REPORTED: March 31, 1971

WELL: CPOG et al La Biche F-08

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (Ohm-meters at 68°F.)
C71-3002-1	Top	22.9
-2	1/3	3.39
-3	2/3	2.04
-4	Bottom	1.97

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. C71-3003-3

Received: Mar. 19,1971 Reported: Mar. 31, 1971 Well: Location: CPOG et al La Biche F-08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area:

Elev.: K.B. 4474.4' Grd. Zone/Formation: Middle Devonian Sample Interval: 6984' - 7074'

Method of Production: D.S.T. #6 Sampled from: M.F.E. Sampled by: S. Janz Date: Mar. 9,1971

OTHER PERTINENT DATA Recovered: 4465'

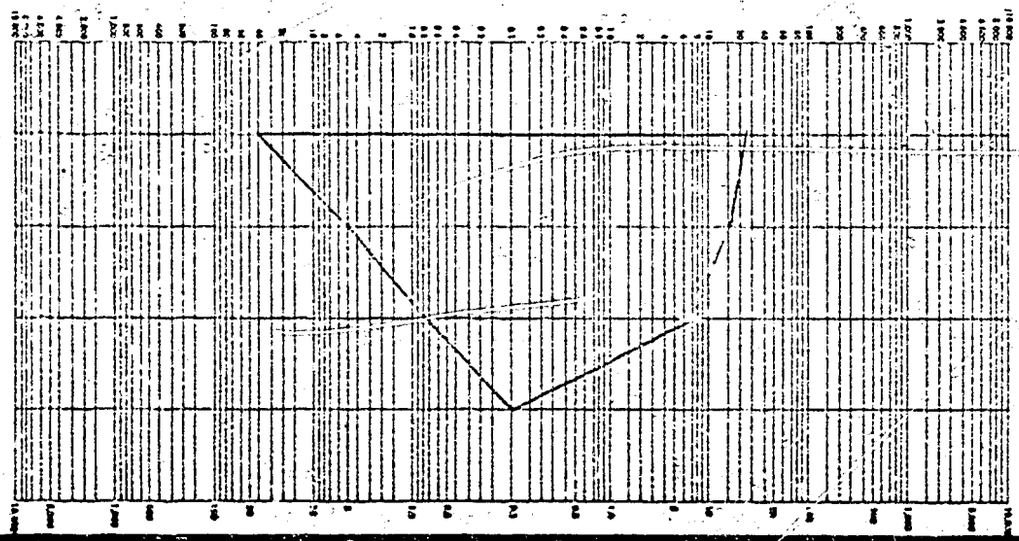
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	1000		100	10					382	930				930		
eq./L	43.62		4.99	0.82					7.95	26.23				15.25		
eq. %	44.12		5.05	0.83					8.04	26.53				15.43		

Total Solids Mg/L: By Evaporation 3720 Fe Much Specific Gravity 1.005 @60°F Observed pH 8.0 @ 72 °F

Calculated 3352 After Ignition 2420 H_2S Nil Refractive Index 1.3335 @25°C Resistivity 2.20 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions: The sample as received was a muddy water. The filtrate was yellow-brown in color. Organic matter was present in the evaporated solids.

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (OHM-meters at 68°F.)
C71-3003-1	Top	7.77
-2	1/3	5.70
-3	2/3	2.44
-4	Bottom	2.33

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. C71-3001-7

Received: Mar. 22, 1971 Reported: Mar. 31, 1971 Well: Location: CPOG et al La Biche F-08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area:

Elev.: K.B. Grd. Zone/Formation: Sample Interval:

Method of Production: Sampled from: Stock Tank Sampled by: Porta-Test Engineering Ltd. Date: Mar. 20, 1971 @ 3:30 A.M.

OTHER PERTINENT DATA Run #4

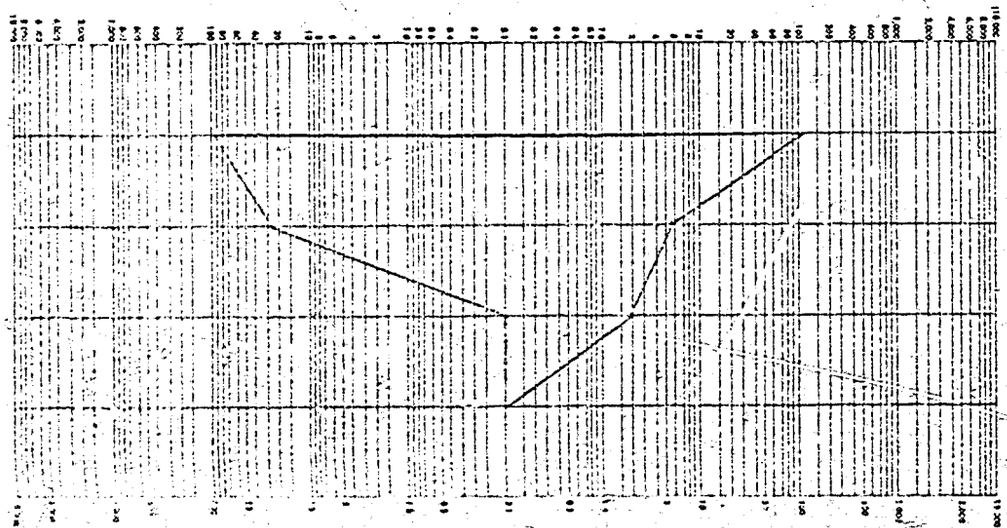
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	2170		545	Trace					95	4040				350		
Meq./L	94.45		27.20	Trace					1.98	113.93				5.74		
Meq. %	38.82		11.18						0.81	46.83				2.36		

Total Solids Mg/L: By Evaporation 7390 Fe Trace Specific Gravity 1.005 @60°F Observed pH 6.1 @ 72 °F

Calculated 7200 After Ignition 6860 H_2S Present Refractive Index 1.3338 @25°C Resistivity 0.910 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

OPERATOR: CENTRAL-DEL RIO OILS LIMITED REPORT NUMBER: C71-3001

DATE SAMPLED: Mar. 20, 1971 DATE RECEIVED: Mar. 22, 1971 DATE REPORTED: Mar. 31, 1971
WELL: CPOG et al La Biche F-08

LABORATORY NUMBER	DATE SAMPLED	TIME SAMPLED	RESISTIVITY (Ohm-meters @68°F.)	CHLORIDE (Mg/L.)	pH (at 72°F.)
C71-3001-1	Mar. 16	6:30 P.M.	1.76	1720	6.5
-2	Mar. 16	10:00 P.M. Clean-up	1.64	---	---
-3	Mar. 17	7:00 A.M. Clean-up	1.25	---	---
-4	Mar. 17	6:25 P.M. Run #1	1.54	---	---
-5	Mar. 17	10:00 P.M. Run #2	1.28	2630	6.4
-6	Mar. 18	2:45 A.M. Run #3	1.27	---	---

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F71-2115-1

Received: Mar. 15,1971 Reported: Mar. 18, 1971 Well: Location: CPOG et al LaBiche F08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area: Wildcat

Elev.: K.B. Grd. Zone/Formation: Sample Interval: 6727' - 6772'

Method of Production: swabbing Sampled from: swab 52 Sampled by: Date: Mar. 13,1971

OTHER PERTINENT DATA

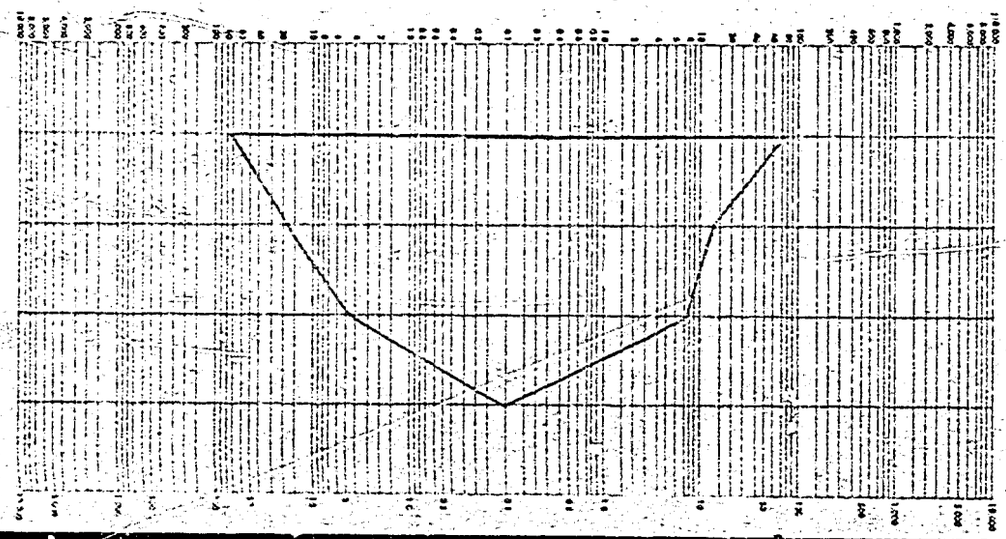
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	1719		360	58					379	2725				780		
Meq./L	74.79		17.96	4.77					7.88	76.85				12.79		
Meq. %	38.35		9.21	2.44					4.04	39.40				6.56		

Total Solids Mg/L: By Evaporation 6668 Fe Much Specific Gravity 1.005 @60°F Observed pH 6.8 @ 75 °F

Calculated 6021 After Ignition 5284 H_2S —— Refractive Index 1.3330 @25°C Resistivity 1.10 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Sample as received consisted of colourless water with some brown sediment. Organic matter detected in total solids.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F71-2115-2

Received: Mar. 15,1971 Reported: Mar. 18, 1971

Well: Location: CPOG et al LaBiche F08

Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area: Wildcat

Elev.: K.B. Grd. Zone/Formation:

Sample Interval: 6727' - 6772'

Method of Production: swabbing

Sampled from: swab 53

Sampled by:

Date: Mar. 13, 1971

OTHER PERTINENT DATA

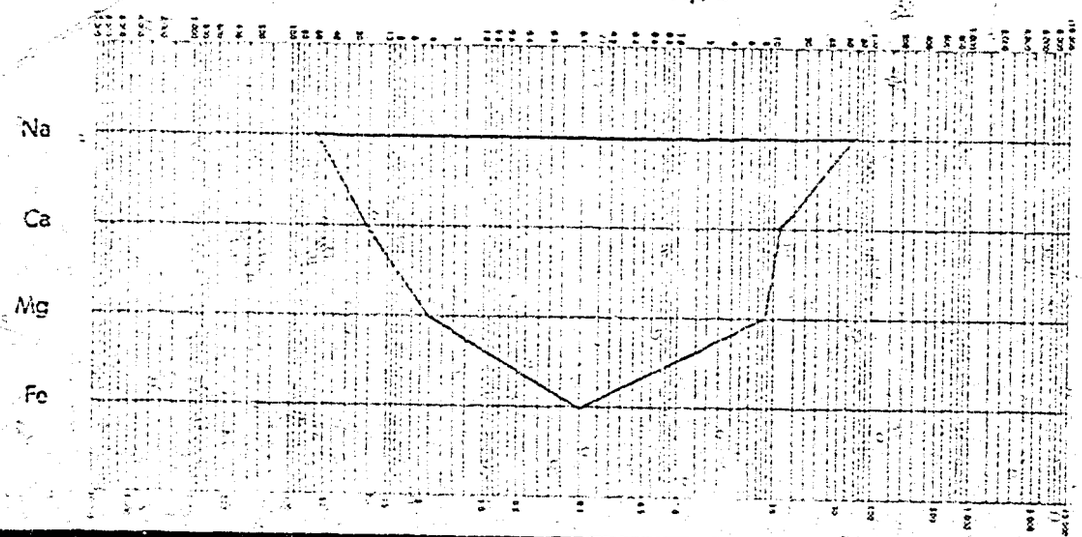
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	1456		324	53					398	2285				680		
Meq./L	63.34		16.17	4.36					8.28	64.44				11.15		
Meq. %	37.76		9.64	2.60					4.93	38.42				6.65		

Total Solids Mg./L: By Evaporation 5824 Fe Present Specific Gravity 1.004 @60°F Observed pH 7.0 @ 75°F

Calculated 5196 After Ignition 4452 H_2S --- Refractive Index 1.3330 @25°C Resistivity 1.23 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions

Sample as received consisted of colourless water with some brown sediment. Organic matter detected in total solids.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS Lab No. F71-2115-3

Received: Mar. 15, 1971 Reported: Mar. 18, 1971 Well: Location: CPOG et al LaBiche F08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area: Wildcat

Elev.: K.B. Grd. Zone/Formation: Sample Interval: 6727' - 6772'

Method of Production: Sampled from: bottom of tubing Sampled by: Date Mar. 13,1971

OTHER PERTINENT DATA

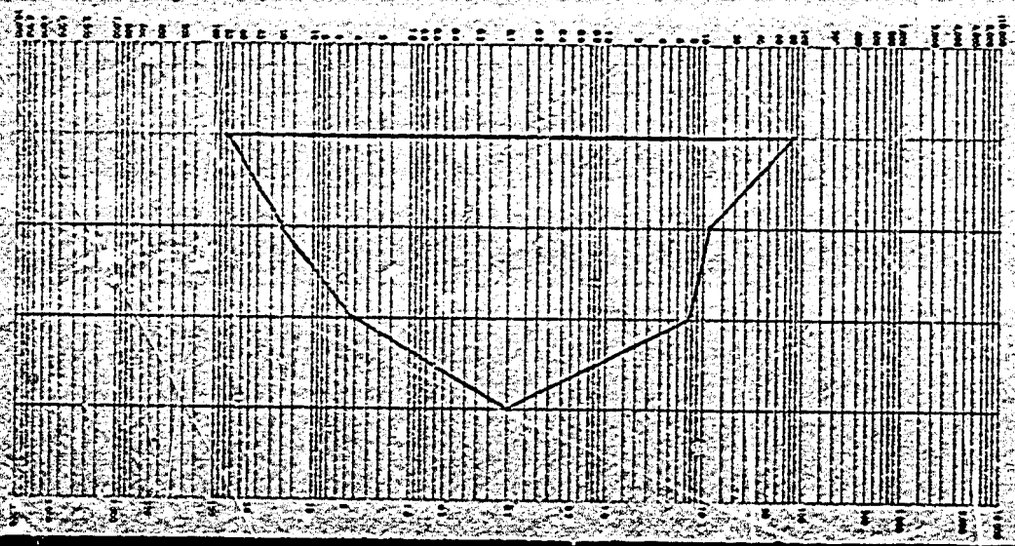
(Signed)

	Na & K	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	1852		433	56					365	3086				740		
Meq./L	80.55		21.61	4.60					7.59	87.03				12.14		
Meq. %	37.73		10.12	2.15					3.55	40.76				5.69		

Total Solids Mg/L: By Evaporation 7316 Fe Present Specific Gravity 1.005 @60°F Observed pH 6.8 @ 75°F

Calculated 6532 After Ignition 5796 H_2S Present Refractive Index 1.3330 @25°C Resistivity 0.980 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions

Sample as received consisted of colourless water with some black sediment. Organic matter detected in total solids.

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. C71-3019

Received: Mar.23,1971 Reported: April 2, 1971 Well: Location: CDR CPOG La Biche F-08

Operator: CENTRAL-DEL RIO OILS LIMITED Field or Area:

Elev.: K.B. Grd. Zone/Formation: Sample Interval:

Method of Production: Sampled from: Sampled by: Date: Mar.20,1971 3:30 a.m.

OTHER PERTINENT DATA Tubing Temp. 106°F. Separator Temp.: 104°F.
H.P. Fluid Press. 725 psi Press: 350 psi

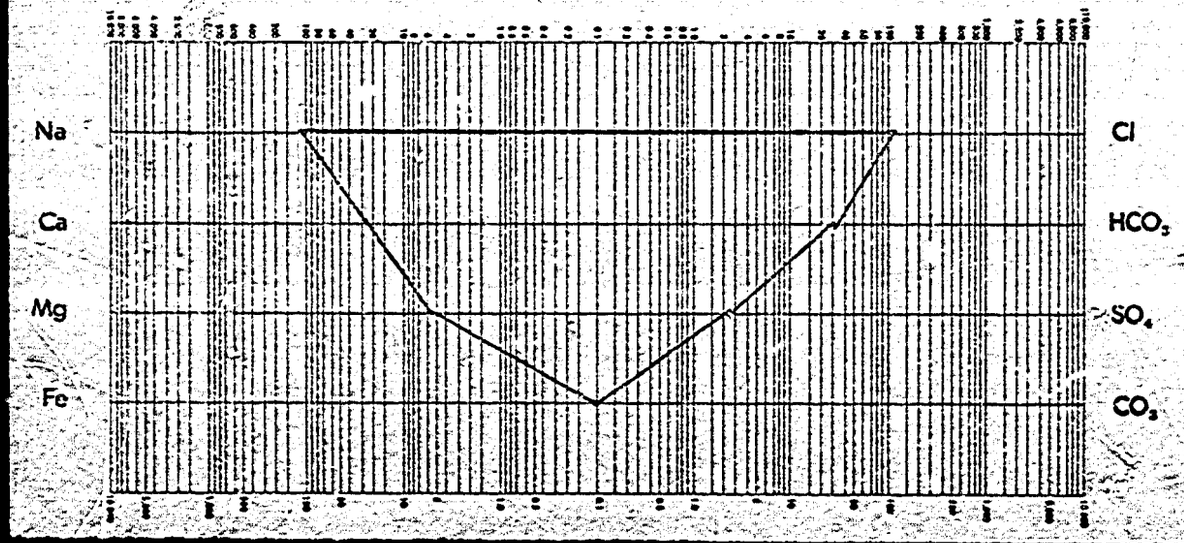
(Signed)

	Na & K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	2690		520	66					115	4040				300		
Meq./L	116.86		25.95	5.43					2.39	113.93				31.92		
Meq. %	39.42		8.75	1.83					0.81	38.43				10.76		

Total Solids Mg/L: By Evaporation 7730 Fe Trace Specific Gravity 1.008 @60°F Observed pH 6.4 @ 72 °F

Calculated 7731 After Ignition 6610 H_2S Present Refractive Index 1.3342 @25°C Resistivity 0.892 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample as received, contained a trace of black sediment. The filtrate was colorless.

CGL-4

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton – Fort St. John – Calgary

GAS ANALYSIS REPORT: Lab. No. C71-2377 Received: Mar. 22, 1971 Reported: Mar. 24, 1971

Well: CDR CPOG La Biche F-08 Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area: La Biche Location: F-08 Elev.: K.B. ____ Grd. ____

Zone and Formation: ____ Sample Interval: ____

Well production at sampling time: Oil ____ bpd; Gas ____ MCFD; Water ____ bpd.

Sampled from: Meter Run Separator Sampled by: ____ Date: Mar. 20, 1971

Pressure: (a) at point of sampling 350 psi (b) Gas Bomb pressure ____ psig

Temperature: (a) at point of sampling 104 °F (b) Separator ____ °F

Pressures: Reservoir ____ Tubing 725 psi @ 106°F. Casing ____ Separator ____

OTHER PERTINENT DATA Container Numbers: 2138, 2037 Sampled at 3:30 A.M.

(Signed)

COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA
Helium		
Hydrogen sulfide	0.28	
Carbon dioxide	10.12	
Nitrogen	2.99	
Methane	86.42	
Ethane	0.19	
Propane	0.	0.
Isobutane	0.	0.
N-butane	0.	0.
Isopentane	0.	0.
N-pentane	0.	0.
Hexanes	0.	0.
Heptanes	0.	0.
Octanes	0.	0.
Nonanes	0.	0.
Decanes +	0.	0.
TOTAL	100.00	0.

G.P.M. (Calculated)

pentanes +	0.
at 12 lbs.	0.
at 15 lbs.	0.
at 22 lbs.	0.
at 26 lbs.	0.

SPECIFIC GRAVITY

Calculated	0.667
by Weight	0.671

CRITICALS (Calculated)

Pc	710.0
Tc	361.7

VAPOR PRESSURE (Calc.) @ 100°F. Pentanes + 0.

H_2S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a. 175.

GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. (dry) 875.2

(sat.) 859.9

Acid Gas Free (dry) 974.8

DEW POINT (Calc.) p.s.i. 950 1050 1200

FAH. -56 -54 -51

Mol. Wt.: Total Gas 19.303 Heptanes + 0.

Sample received with a pressure of 355 psig. at 70°F.

CGL-4

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton – Fort St. John – Calgary

GAS ANALYSIS REPORT: Lab. No. C71-2823-1 Received: Feb. 24, 1971 Reported: Feb. 25, 1971

Well: CPOG et al LaBiche 60°41'N-124°31'W. Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area: (Wildcat) Location: Elev.: K.B. 4247' Grd. 4257'

Zone and Formation: Middle Devonian Sample Interval: 6420' - 6516'

Well production at sampling time: Oil ____ bpd; Gas ____ MCFD; Water ____ bpd.

Sampled from: flare line Sampled by: S. Janz Date: Feb. 21, 1971

Pressure: (a) at point of sampling ____ psig (b) Gas Bomb pressure ____ psig

Temperature: (a) at point of sampling ____ °F (b) Separator ____ °F

Pressures: Reservoir ____ Tubing ____ Casing ____ Separator ____

OTHER PERTINENT DATA D.S.T. #2

(Signed)

COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA
Helium	0.11	
Hydrogen sulfide	0.32	
Carbon dioxide	10.23	
Nitrogen	3.00	
Methane	86.15	
Ethane	0.19	
Propane	TRCE	0.
Isobutane	0.	0.
N-butane	0.	0.
Isopentane	0.	0.
N-pentane	0.	0.
Hexanes	0.	0.
Heptanes	0.	0.
Octanes	0.	0.
Nonanes	0.	0.
Decanes +	0.	0.
TOTAL	100.00	0.

G.P.M. (Calculated)

pentanes + 0.

at 12 lbs. 0.

at 15 lbs. 0.

at 22 lbs. 0.

at 26 lbs. 0.

SPECIFIC GRAVITY

Calculated 0.668

by Weight 0.667

CRITICALS (Calculated)

Pc 710.0

Tc 361.7

VAPOR PRESSURE (Calc.) @ 100°F. Pentanes + 0.

H_2S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a. 201.

GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. (dry) 872.7

(sat.) 857.5

Acid Gas Free (dry) 973.4

DEW POINT (Calc.) p.s.i. 950 1050 1200

FAH. -55 -53 -50

Mol. Wt.: Total Gas 19.333 Heptanes + 0.

Sample received with a pressure of 180 psig. at 76°F.

CGL-4

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton – Fort St. John – Calgary

GAS ANALYSIS REPORT: Lab. No. C71-2323-2 Received: Feb. 24, 1971 Reported: Feb. 25, 1971

Well: CPOG et al LaBiche 60°41'N-124°31'W Operator: CENTRAL-DEL RIO OILS LIMITED

Field or Area: Location: Elev.: K.B. Grd.

Zone and Formation: Sample Interval: 6420' - 6475'

Well production at sampling time: Oil bpd; Gas MCFD; Water bpd.

Sampled from: flare line Sampled by: S. Janz Date: Feb. 20, 1971

Pressure: (a) at point of sampling psig (b) Gas Bomb pressure psig

Temperature: (a) at point of sampling °F (b) Separator °F

Pressures: Reservoir Tubing Casing Separator

OTHER PERTINENT DATA D.S.T. #3

(Sig:)

COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA
Helium	.09	
Hydrogen sulfide	0.05	
Carbon dioxide	10.92	
Nitrogen	3.36	
Methane	85.37	
Ethane	0.21	
Propane	TRCE	0.
Isobutane	0.	0.
N-butane	0.	0.
Isopentane	0.	0.
N-pentane	0.	0.
Hexanes	0.	0.
Heptanes	0.	0.
Octanes	0.	0.
Nonanes	0.	0.
Decanes +	0.	0.
TOTAL	100.00	0.

G.P.M. (Calculated)

pentanes +	0.
at 12 lbs.	0.
at 15 lbs.	0.
at 22 lbs.	0.
at 26 lbs.	0.

SPECIFIC GRAVITY

Calculated	0.674
by Weight	0.677

CRITICALS (Calculated)

Pc	710.5
Tc	361.5

VAPOR PRESSURE (Calc.) @ 100°F. Pentanes + 0.

H_2S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a. 31.

GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. (dry) 863.5

(sat.) 848.4

Acid Gas Free (dry) 959.6

DEW POINT (Calc.) p.s.i.	950	1050	1200
FAH.	-54	-52	-49

Mol. Wt.: Total Gas 19.526 Heptanes + 0.

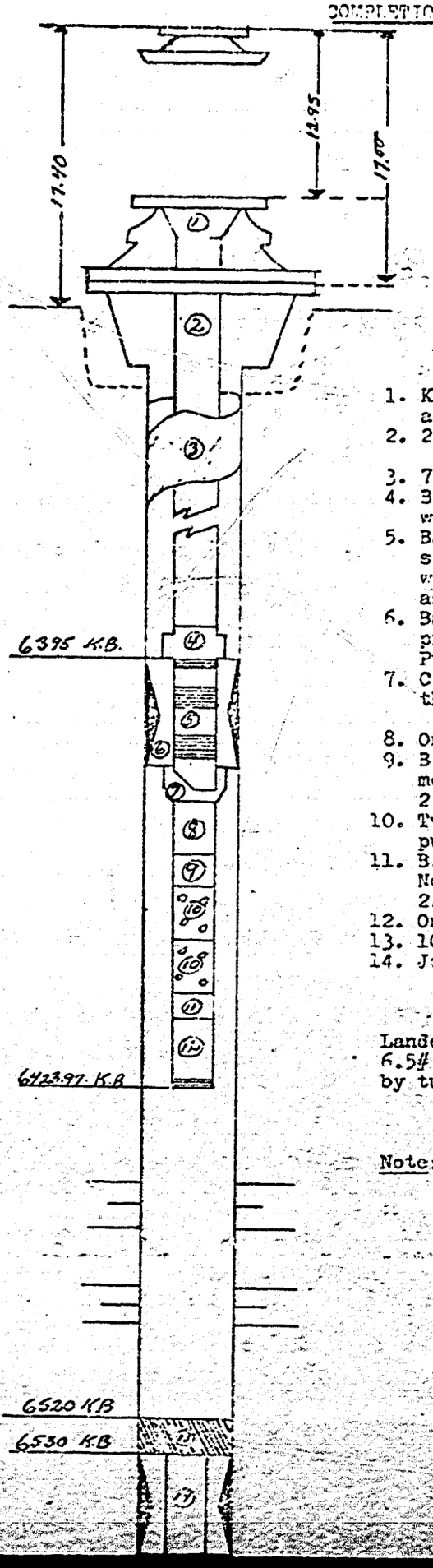
Sample received with a pressure of 25 psig. at 76°F.

SECTION VI

COMPLETION SUMMARY

SECTION VI - Completion Summary

(a) Tubing Record



CPOC et al LaBiche F-08

Ground Elevation 4257.0'
K. B. Elevation 4274.4'

1. K.B. to tubing spool = 12.95 and tubing hanger = .67		13.62
2. 202 joints 2 7/8" EUE tubing	6380.38	6394.00
3. 7" - 26# casing		
4. Baker model "E" Anchor sub with 2 7/8" modified box	.75	6394.75
5. Baker 80-40 model "E" Anchor seal assembly. Prod #443-01 with 2 premium seal units and mule shoe (1.88)		
6. Baker 85-40 model FB-1 production packer. Prod #413-08	2.60	6397.35
7. C/O sub with 4 1/2" 8 round thread pin x 2 7/8" EUE box	.78	6398.13
8. One 2 7/8" EUE pup jt.	7.71	6405.84
9. B.F.C. 2 7/8" EUE pin & box model "F" nipple with 2.31 ID	.90	6406.74
10. Two 2 7/8" EUE perforated pup joints	12.17	6418.91
11. B.F.C. 2 7/8" EUE pin & box No-Go model "R" nipple with 2.25 ID	.83	6419.74
12. One 2 7/8" EUE pup jt.	4.23	6423.97
13. 10' of Hydromite		
14. Johnston wasp bridge plug		

Landed 202 joints NKK 2 7/8" EUE 6.5# J-55 tubing at 6392.75' K. B. by tubing tally.

Note: Johnston wasp plugs at 7100' K. B. and 6840' K. B.

(b) PERFORATION INTERVALS

ZONE #1

INTERVAL	FEET	SHOTS PER FOOT	NO. OF SHOTS
7184 - 7183	4	4	16
7125 - 7129	4	4	16
7110 - 7114	4	4	16
TOTALS	16		48

Used S.O.C. 4" Hyper Jet Gun. March 8, 1971

ZONE #2

INTERVAL	FEET	SHOTS PER FOOT	NO. OF SHOTS
7070 - 7074	4	4	16
7029 - 7033	4	4	16
7008 - 7010	2	4	8
6984 - 6988	4	4	16
TOTALS	14		56

Used S.O.C. 4" Hyper Jet Gun. March 9, 1971

ZONE #3

INTERVAL	FEET	SHOTS PER FOOT	NO. OF SHOTS
6764 - 6772	8	4	32
6727 - 6733	6	4	24
TOTALS	14		56

Used S.O.C. 4" Hyper Jet Gun. March 10, 1971

ZONE #4

INTERVAL	FEET	SHOTS PER FOOT	NO. OF SHOTS
6461 - 6464	3	4	12
6448 - 6454	6	4	24
6428 - 6432	4	4	16
6422 - 6424	2	4	8
TOTALS	15		60

Used S.O.C. 4" Hyper Jet Gun. March 15, 1971

(c) Cementation Record

Date	
March 8, 1971	Tag 7" casing cement plug @ 7272' w/tbg. trip to perforate. Perforate ZONE 1 and Drill Stem Test.
March 9, 1971	Set Johnson Wasp bridge plug @ 7100' capped w/8 gals hydromite. Perforate ZONE 2.
March 10, 1971	Run DST and set Johnson Wasp bridge plug @ 6840' cap w/ 8 gals. hydromite. Perforate ZONE 3.
March 11, 1971	Swab Test
March 12, 1971	Swab Test
March 13, 1971	Swab Test
March 14, 1971	Set Johnson Wasp bridge plug @ 6530' capped w/17 gals. hydromite. Pressure Test bridge plug O.K.
March 15, 1971	Perforated ZONE 4. Ran in Model F IB packer and set at 6935 K.B. Ran tbg. and seal assembly.
March 16, 1971	Pressure Test all equipment down hole and surface.
March 17, 1971	Ran AOF Porta Test.
March 23, 1971	Pull recorders. Set Baber FSG plug in F Nipple @ 6404 K.B. Filled tbg. w/inhibited diesel fuel. Chained and locked well head.

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

Type of Test:	4-Point Modified Isochronal Back Pressure Test followed by 48 hour extended run. (Flow thru tubing)
Date:	March 16 - 23, 1971
Interval Tested:	6422' - 6464'
Results of Test:	AOF 6.400 mmcf/d n = 0.824
Total Production:	Gas 12.643 mmcf Condensate 0 bbls Water 70.64 bbls
Reservoir Pressure:	1762 PSIA @ 235° F.
Continuous Flow:	4 MMcf/d at 700 PSIA Tubing pressure

SCHLUMBERGER

Schlumberger of Canada

a Division of Schlumberger Canada Limited

SUITE 780, PACIFIC 66 PLAZA · CALGARY 1, ALBERTA · PHONE 269-7331-AREA CODE 403

Canadian Pacific Oil & Gas Limited
205 - 9 Ave. S. E.
Calgary, Alberta.

Gentlemen:

Enclosed are the computed results of CORIBAND on your well:
CPOG et al LaRiche F-05
This computation consists of a computed log and tabular listing.

Several porous zones are indicated by this analysis. The amount of porosity footage can be determined for each zone from the computed tabular listing. This is done by using the "Total Porosity Feet" column of the listing and subtracting the numbers at the top and bottom of each zone of interest to get the porosity footage.

These results are based on interpretation of the enclosed log and have been computed by and measured against a model. Since this model is based upon many assumptions and since the data input is subject to error in transmission and computation, Schlumberger cannot warrant or guarantee these interpretations. Therefore, they are made, like all other Schlumberger interpretations, subject to the provisions of paragraph 7 of our current General Terms and Conditions.

We believe this information will be beneficial in the evaluation of your well. If further explanation would be helpful, please ask us.

Thank you.

F.W. McCamus

F. W. McCamus - Manager of Operations

RWH/dc

CANADIAN PACIFIC OIL AND GAS LTD.
CPOG ETAL LA BICHE F-08
WILDCAT
N.W.T. 60-40N 124-31W

PRESENTATION PROGRAM
VERSION C
11-01-70

CORIBAND JOB

TAPE LABEL L-2931,SHIFT-IDC,DEC,3-1-71,

THIS JOB IS IN FEET

THE INTERVAL FOR THIS JOB IS BOTTOM TO TOP

MAKE 2 LISTINGS

NO FILM MADE

FREQUENCY OF LISTING IS 1 FEET

DISCRIMINATION MADE ON LISTING IS FROM VSH 50

THE E-4 EQUATION IS USED FOR PERMEABILITY

MAXIMUM LIMIT OF SW IN EQUATION IS 50

THE CONSTANT USED IN THE E-4 EQUATION IS 500.

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5803.0	.00	100	4.0	.0	2.65	46	53.90	11.24
5804.0	.00	100	3.5	.0	2.65	42	53.86	11.24
5805.0	.00	100	1.8	.0	2.67	47	53.84	11.24
5807.0	.00	100	2.8	.0	2.70	50	53.80	11.24
5809.0	.00	100	3.0	.0	2.74	48	53.74	11.23
5810.0	.00	100	3.0	.0	2.74	49	53.71	11.23
5811.0	.01	100	4.3	.0	2.65	48	53.68	11.23
5812.0	.00	100	4.0	.0	2.65	47	53.64	11.23
5814.0	.00	100	3.4	.0	2.65	47	53.60	11.23
5815.0	.00	100	2.1	.0	2.67	48	53.56	11.23
5816.0	.00	100	2.8	.0	2.71	46	53.54	11.23
5817.0	.01	100	4.3	.0	2.75	46	53.51	11.23
5818.0	.05	100	6.0	.0	2.74	44	53.46	11.23
5821.0	.00	100	4.0	.0	2.82	0	53.35	11.22
5822.0	.00	90	3.7	.0	2.75	38	53.31	11.22
5823.0	.00	61	2.8	.0	2.71	46	53.28	11.21
5827.0	.00	73	2.7	.0	2.71	45	53.21	11.18
5828.0	.01	94	4.4	.0	2.65	40	53.18	11.17
5830.0	.00	100	2.4	.0	2.73	45	53.12	11.17
5831.0	.00	100	1.8	.0	2.69	48	53.09	11.17
5832.0	.00	100	2.9	.0	2.67	47	53.07	11.17
5833.0	.00	100	3.1	.0	2.68	45	53.05	11.17
5834.0	.00	100	3.7	.0	2.65	41	53.01	11.17
5835.0	.00	100	3.7	.0	2.67	35	52.98	11.17
5836.0	.00	100	2.0	.0	2.70	42	52.94	11.17
5837.0	.00	100	2.8	.0	2.68	41	52.92	11.17
5838.0	.00	100	2.0	.0	2.71	43	52.90	11.17
5840.0	.00	100	2.2	.0	2.66	48	52.86	11.17
5841.0	.00	100	2.6	.0	2.72	48	52.83	11.17
5843.0	.00	100	3.8	.0	2.65	43	52.79	11.17

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5854.0	.00	100	3.9	.0	2.65	50	52.50	11.16
5855.0	.00	100	2.5	.0	2.65	49	52.46	11.16
5857.0	.07	100	6.4	.0	2.69	32	52.40	11.16
5858.0	.11	100	5.9	.0	2.73	36	52.33	11.16
5872.0	.04	100	5.0	.0	2.75	47	51.87	11.09
5873.0	.52	100	9.0	.0	2.79	35	51.79	11.09
5874.0	.37	100	8.5	.0	2.78	30	51.70	11.09
5875.0	.31	100	8.2	.0	2.82	17	51.62	11.09
5876.0	.24	100	7.9	.0	2.84	15	51.54	11.09
5877.0	.11	100	5.9	.0	2.85	20	51.46	11.09
5878.0	.07	100	6.4	.0	2.83	24	51.40	11.09
5879.0	.10	100	5.8	.0	2.78	30	51.33	11.09
5880.0	.55	80	9.1	.0	2.80	29	51.26	11.08
5881.0	1.19	94	10.3	.0	2.73	14	51.17	11.06
5882.0	1.17	100	10.3	.0	2.76	0	51.05	11.06
5883.0	3.42	86	12.3	.0	2.74	12	50.96	11.06
5884.0	2.44	71	11.6	.0	2.67	30	50.84	11.04
5885.0	4.86	68	13.0	.0	2.65	30	50.72	11.00
5886.0	3.95	65	12.6	.0	2.65	27	50.60	10.96
5887.0	6.17	55	14.2	.0	2.65	27	50.48	10.92
5888.0	1.38	66	10.5	.0	2.65	27	50.34	10.86
5889.0	.14	100	7.2	.0	2.66	22	50.25	10.83
5890.0	34.02	44	17.4	.0	2.65	22	50.17	10.82
5891.0	.30	89	8.2	.0	2.65	22	50.01	10.74
5892.0	.49	84	8.9	.0	2.65	23	49.92	10.72
5893.0	.58	79	8.9	.0	2.65	25	49.80	10.69
5894.0	12.05	58	15.1	.0	2.65	0	49.71	10.67
5895.0	.34	71	8.4	.0	2.71	28	49.61	10.64
5896.0	.04	100	5.8	.0	2.74	23	49.54	10.62
5897.0	.00	57	3.8	.0	2.79	37	49.49	10.61
5898.0	.00	55	3.4	.0	2.79	38	49.46	10.60
5899.0	.01	54	4.7	.0	2.75	38	49.42	10.58
5900.0	.21	52	7.7	.0	2.72	38	49.37	10.56
5901.0	4.09	71	12.6	.0	2.73	9	49.29	10.52
5902.0	.05	55	6.1	.0	2.65	39	49.15	10.47
5903.0	17.34	55	16.1	.0	2.65	4	49.04	10.43
5904.0	.09	100	6.7	.0	2.70	13	48.90	10.38
5905.0	.00	46	2.0	.0	2.77	42	48.85	10.37
5906.0	.00	80	.5	.0	2.85	38	48.83	10.36
5907.0	.00	64	3.3	.0	2.74	36	48.82	10.35
5908.0	.00	76	3.6	.0	2.73	34	48.78	10.34
5909.0	.00	100	3.9	.0	2.74	30	48.75	10.33

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5910.0	.01	100	4.6	.0	2.76	24	48.71	10.33
5911.0	.02	100	3.3	.0	2.76	29	48.66	10.33
5912.0	.04	70	5.9	.0	2.80	39	48.61	10.33
5913.0	.20	66	7.6	.0	2.74	37	48.54	10.31
5914.0	.07	67	5.4	.0	2.70	36	48.46	10.28
5915.0	.01	85	4.2	.0	2.73	35	48.41	10.27
5916.0	.01	84	4.2	.0	2.73	37	48.37	10.26
5917.0	.03	91	5.6	.0	2.79	33	48.32	10.25
5918.0	.00	69	4.0	.0	2.74	41	48.26	10.25
5919.0	.01	100	4.6	.0	2.73	31	48.22	10.23
5920.0	.00	82	3.7	.0	2.73	36	48.17	10.23
5921.0	.01	88	4.6	.0	2.70	36	48.13	10.22
5922.0	.02	95	5.1	.0	2.68	38	48.08	10.22
5923.0	.23	98	7.8	.0	2.65	34	48.03	10.21
5924.0	1.43	73	10.6	.0	2.65	37	47.97	10.21
5925.0	.54	85	9.0	.0	2.65	35	47.85	10.16
5926.0	.00	60	3.6	.0	2.75	47	47.78	10.16
5927.0	.01	52	4.6	.0	2.73	46	47.74	10.14
5930.0	.00	46	2.9	.0	2.74	50	47.66	10.10
5934.0	.00	38	2.5	.0	2.86	47	47.58	10.05
5936.0	.00	39	3.0	.0	2.78	47	47.53	10.02
5937.0	.00	31	3.5	.0	2.80	50	47.50	10.00
5938.0	.00	39	3.0	.0	2.85	44	47.47	9.98
5939.0	.00	52	2.2	.0	2.88	38	47.44	9.96
5940.0	.00	96	2.1	.0	2.89	29	47.41	9.95
5941.0	.00	100	3.7	.0	2.85	26	47.39	9.95
5942.0	.00	73	3.3	.0	2.80	41	47.34	9.95
5943.0	.00	69	3.3	.0	2.72	47	47.31	9.94
5944.0	.00	85	2.9	.0	2.71	46	47.28	9.94
5945.0	.00	84	2.2	.0	2.75	49	47.25	9.93
5946.0	.00	87	2.4	.0	2.85	48	47.23	9.93
5947.0	.00	79	3.9	.0	2.89	49	47.20	9.92
5952.0	.01	59	4.5	.0	2.89	43	46.94	9.78
5953.0	.03	85	5.5	.0	2.92	35	46.90	9.77
5954.0	.25	71	7.9	.0	2.83	39	46.83	9.76
5955.0	.09	73	6.7	.0	2.85	46	46.76	9.73
5956.0	.00	78	3.8	.0	2.79	49	46.69	9.72
5957.0	.00	82	3.3	.0	2.80	47	46.66	9.71
5958.0	.00	76	3.2	.0	2.89	48	46.63	9.70
5959.0	.04	80	5.7	.0	2.80	49	46.59	9.69

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5960.0	.03	88	5.6	.0	2.84	47	46.53	9.68
5961.0	.01	94	4.6	.0	2.89	47	46.48	9.68
5990.0	.27	100	8.1	.0	2.78	9	45.39	9.42
5991.0	8.22	79	14.2	.0	2.80	16	45.30	9.42
5992.0	27.89	65	17.4	.0	2.86	29	45.15	9.38
5993.0	1.20	85	10.3	.0	2.76	47	45.01	9.35
6010.0	.04	100	6.0	.0	2.68	49	44.58	9.31
6011.0	.15	100	7.3	.0	2.74	46	44.51	9.31
6012.0	.69	100	9.4	.0	2.73	41	44.43	9.31
6014.0	2.91	100	12.0	.0	2.76	29	44.33	9.31
6015.0	.98	100	10.0	.0	2.78	25	44.22	9.31
6020.0	.19	100	7.6	.0	2.71	43	44.11	9.31
6021.0	.38	100	8.5	.0	2.77	37	44.03	9.31
6025.0	.02	100	5.1	.0	2.68	35	43.92	9.31
6026.0	.00	100	2.9	.0	2.72	48	43.87	9.31
6027.0	.00	100	3.6	.0	2.74	42	43.84	9.31
6028.0	.02	100	5.0	.0	2.75	42	43.80	9.31
6029.0	.03	100	5.7	.0	2.75	44	43.75	9.31
6032.0	.07	100	5.4	.0	2.70	45	43.72	9.31
6033.0	.01	100	4.5	.0	2.70	32	43.66	9.31
6034.0	.00	100	1.3	.0	2.67	47	43.63	9.31
6035.0	.00	100	.5	.0	2.71	49	43.62	9.31
6036.0	.00	100	1.8	.0	2.70	46	43.61	9.31
6037.0	.00	100	2.0	.0	2.65	40	43.59	9.31
6038.0	.00	100	2.1	.0	2.72	38	43.57	9.31
6039.0	.00	100	2.2	.0	2.65	46	43.55	9.31
6042.0	.00	100	2.3	.0	2.80	43	43.49	9.31
6043.0	.00	100	2.1	.0	2.70	44	43.47	9.31
6045.0	.00	100	.5	.0	2.66	48	43.45	9.31
6046.0	.00	100	1.2	.0	2.68	49	43.44	9.31

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6049.0	.00	100	.6	.0	2.67	46	43.40	9.31
6053.0	.00	100	2.0	.0	2.82	50	43.34	9.31
6054.0	.00	100	3.5	.0	2.81	0	43.32	9.31
6055.0	.01	100	4.4	.0	2.77	20	43.29	9.31
6056.0	.05	100	5.0	.0	2.71	39	43.24	9.31
6057.0	.23	100	7.8	.0	2.70	35	43.17	9.31
6058.0	.04	100	5.8	.0	2.72	40	43.10	9.31
6061.0	.01	100	4.9	.0	2.74	42	43.02	9.31
6062.0	.00	100	3.8	.0	2.76	41	42.97	9.31
6063.0	.01	100	4.7	.0	2.74	43	42.94	9.31
6064.0	.00	100	3.7	.0	2.71	48	42.89	9.31
6066.0	.00	100	1.6	.0	2.68	48	42.84	9.31
6067.0	.00	100	1.7	.0	2.67	49	42.82	9.31
6070.0	.00	100	1.8	.0	2.72	42	42.78	9.31
6071.0	.00	100	2.9	.0	2.70	41	42.76	9.31
6072.0	.00	100	1.8	.0	2.77	43	42.73	9.31
6073.0	.00	100	2.1	.0	2.77	47	42.71	9.31
6074.0	.00	100	1.4	.0	2.74	49	42.69	9.31
6075.0	.00	100	.2	.0	2.70	50	42.68	9.31
6076.0	.00	100	2.1	.0	2.74	38	42.68	9.31
6077.0	.00	100	3.3	.0	2.73	42	42.65	9.31
6078.0	.00	100	2.6	.0	2.65	50	42.62	9.31
6080.0	.01	100	4.5	.0	2.65	48	42.57	9.31
6081.0	.01	100	4.3	.0	2.68	49	42.52	9.31
6082.0	.05	100	5.5	.0	2.69	47	42.47	9.31
6083.0	.20	100	7.6	.0	2.71	34	42.41	9.31
6084.0	.00	100	3.2	.0	2.69	50	42.34	9.31
6087.0	.12	100	7.0	.0	2.75	27	42.22	9.30
6088.0	.23	100	7.8	.0	2.77	3	42.15	9.30
6089.0	.74	100	9.5	.0	2.72	18	42.07	9.30
6090.0	.78	100	9.6	.0	2.74	32	41.96	9.30
6091.0	.14	100	7.2	.0	2.73	45	41.88	9.30
6092.0	.08	100	6.5	.0	2.74	46	41.81	9.30
6093.0	.26	100	8.0	.0	2.74	45	41.74	9.30
6094.0	.23	100	7.8	.0	2.76	42	41.66	9.30
6095.0	.17	100	7.4	.0	2.72	43	41.58	9.30

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6096.0	.13	100	7.1	.0	2.72	47	41.50	9.30
6098.0	.00	100	3.2	.0	2.76	47	41.40	9.29
6099.0	.03	100	5.6	.0	2.77	45	41.35	9.29
6100.0	.00	100	4.0	.0	2.73	47	41.31	9.29
6101.0	.01	100	4.5	.0	2.71	46	41.26	9.29
6102.0	.89	100	9.8	.0	2.65	33	41.20	9.29
6103.0	.17	100	7.4	.0	2.65	37	41.10	9.29
6104.0	.05	100	6.1	.0	2.67	46	41.04	9.29
6105.0	.05	100	6.1	.0	2.67	43	40.98	9.29
6106.0	.05	100	6.1	.0	2.74	44	40.92	9.29
6107.0	.02	100	5.3	.0	2.73	45	40.86	9.29
6108.0	.04	100	5.9	.0	2.75	39	40.81	9.29
6109.0	.06	100	6.3	.0	2.76	40	40.75	9.29
6110.0	.11	100	6.9	.0	2.77	41	40.68	9.29
6111.0	.41	93	8.6	.0	2.78	40	40.61	9.29
6112.0	.44	100	8.7	.0	2.78	36	40.53	9.29
6113.0	.27	100	8.0	.0	2.71	36	40.44	9.29
6114.0	.04	100	5.9	.0	2.78	41	40.37	9.29
6115.0	.15	100	7.3	.0	2.85	43	40.31	9.29
6116.0	.11	100	6.9	.0	2.85	47	40.24	9.29
6166.0	.00	100	3.1	.0	2.73	48	38.70	9.28
6167.0	.00	100	2.9	.0	2.77	45	38.67	9.28
6168.0	.00	100	2.6	.0	2.73	48	38.64	9.28
6169.0	.00	100	2.0	.0	2.74	47	38.62	9.28
6170.0	.00	100	2.2	.0	2.78	50	38.60	9.28
6172.0	.00	100	1.7	.0	2.76	50	38.56	9.28
6173.0	.00	100	1.5	.0	2.73	48	38.55	9.28
6175.0	.00	100	1.2	.0	2.68	50	38.52	9.28
6176.0	.00	100	1.1	.0	2.65	50	38.51	9.28
6177.0	.00	100	1.5	.0	2.65	47	38.50	9.28
6178.0	.00	100	2.8	.0	2.70	40	38.48	9.28
6179.0	.00	100	2.7	.0	2.72	49	38.46	9.28
6180.0	.00	100	3.0	.0	2.68	38	38.43	9.28
6181.0	.00	100	1.5	.0	2.76	40	38.40	9.28
6182.0	.00	100	1.6	.0	2.65	46	38.39	9.28
6183.0	.01	100	4.4	.0	2.65	37	38.35	9.28
6184.0	.00	100	3.9	.0	2.70	38	38.31	9.28
6185.0	.14	100	7.2	.0	2.65	33	38.27	9.28
6186.0	.05	100	6.1	.0	2.68	34	38.20	9.28
6187.0	.47	100	8.8	.0	2.65	28	38.13	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS PER-FT	CUMULATIVE INTEGRATIONS HC-FT
6188.0	.07	100	6.5	.0	2.67	35	38.08	9.28
6189.0	.10	100	6.8	.0	2.66	35	38.02	9.28
6190.0	.00	100	2.2	.0	2.69	50	37.97	9.28
6191.0	.00	100	1.4	.0	2.67	50	37.95	9.28
6192.0	.00	100	3.6	.0	2.70	43	37.93	9.28
6193.0	.17	100	7.4	.0	2.71	29	37.89	9.28
6199.0	.03	100	5.7	.0	2.74	41	37.81	9.28
6200.0	.05	100	6.0	.0	2.73	36	37.75	9.28
6201.0	.02	100	5.0	.0	2.72	12	37.69	9.28
6202.0	.00	100	3.1	.0	2.70	27	37.65	9.28
6203.0	.02	100	5.3	.0	2.65	41	37.61	9.28
6204.0	.02	100	5.2	.0	2.65	42	37.56	9.28
6205.0	.00	100	3.4	.0	2.71	49	37.52	9.28
6206.0	.00	100	2.5	.0	2.68	48	37.48	9.28
6209.0	.00	100	2.7	.0	2.71	40	37.42	9.28
6210.0	.01	100	4.6	.0	2.70	40	37.39	9.28
6211.0	.06	100	6.3	.0	2.65	40	37.34	9.28
6212.0	.08	100	5.5	.0	2.66	33	37.27	9.28
6213.0	.06	100	6.3	.0	2.69	33	37.20	9.28
6214.0	.16	100	7.4	.0	2.71	33	37.14	9.28
6215.0	.73	100	9.5	.0	2.72	0	37.06	9.28
6216.0	.02	100	5.1	.0	2.73	0	36.98	9.28
6217.0	1.55	100	10.8	.0	2.76	11	36.91	9.28
6218.0	1.52	100	10.7	.0	2.72	0	36.80	9.28
6219.0	.00	100	.0	.0	2.72	33	36.75	9.28
6220.0	1.02	100	10.0	.0	2.72	0	36.70	9.28
6221.0	.05	100	6.0	.0	2.66	41	36.61	9.28
6235.0	.00	100	2.0	.0	2.68	47	36.54	9.28
6236.0	.10	100	6.8	.0	2.65	28	36.51	9.28
6238.0	.01	100	4.9	.0	2.65	48	36.42	9.28
6239.0	.05	100	6.1	.0	2.75	46	36.36	9.28
6242.0	.00	100	.2	.0	2.85	44	36.31	9.28
6243.0	.00	100	1.6	.0	2.74	21	36.30	9.28
6244.0	.00	100	4.0	.0	2.70	5	36.28	9.28
6245.0	.00	100	3.3	.0	2.69	30	36.24	9.28
6246.0	.00	100	3.7	.0	2.73	40	36.21	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6253.0	.03	100	5.4	.0	2.65	45	35.92	9.28
6254.0	.02	100	5.1	.0	2.65	49	35.87	9.28
6255.0	.00	100	3.9	.0	2.65	48	35.81	9.28
6256.0	.05	100	6.0	.0	2.65	40	35.77	9.28
6259.0	.00	100	4.0	.0	2.65	37	35.65	9.28
6260.0	.02	100	5.1	.0	2.65	37	35.60	9.28
6261.0	.02	100	5.1	.0	2.65	45	35.55	9.28
6262.0	.02	100	5.1	.0	2.65	43	35.50	9.28
6263.0	.03	100	5.7	.0	2.65	40	35.46	9.28
6264.0	.04	100	5.7	.0	2.65	27	35.40	9.28
6265.0	.05	100	5.7	.0	2.65	34	35.35	9.28
6266.0	.02	100	5.1	.0	2.65	37	35.29	9.28
6267.0	.00	100	2.0	.0	2.65	45	35.24	9.28
6268.0	.00	100	3.8	.0	2.65	37	35.22	9.28
6269.0	.00	100	2.8	.0	2.65	40	35.18	9.28
6271.0	.00	100	3.6	.0	2.65	36	35.15	9.28
6272.0	.02	100	5.0	.0	2.65	29	35.11	9.28
6273.0	.01	100	4.5	.0	2.65	39	35.06	9.28
6274.0	.00	100	2.5	.0	2.68	48	35.02	9.28
6275.0	.00	100	2.2	.0	2.71	50	35.00	9.28
6276.0	.00	100	4.0	.0	2.65	35	34.97	9.28
6277.0	.01	100	4.2	.0	2.65	34	34.94	9.28
6278.0	.01	100	4.6	.0	2.65	41	34.89	9.28
6279.0	.01	100	4.5	.0	2.65	44	34.85	9.28
6280.0	.00	100	3.9	.0	2.65	42	34.80	9.28
6281.0	.00	100	3.9	.0	2.65	46	34.76	9.28
6282.0	.00	100	2.1	.0	2.65	48	34.72	9.28
6283.0	.00	100	2.0	.0	2.70	47	34.71	9.28
6284.0	.00	100	1.3	.0	2.71	46	34.69	9.28
6286.0	.00	100	2.0	.0	2.73	38	34.67	9.28
6287.0	.00	100	2.3	.0	2.65	42	34.64	9.28
6288.0	.00	100	3.3	.0	2.65	41	34.62	9.28
6289.0	.01	100	4.1	.0	2.65	36	34.58	9.28
6290.0	.00	100	4.0	.0	2.65	46	34.54	9.28
6292.0	.07	100	6.5	.0	2.65	37	34.46	9.28
6293.0	.01	100	4.2	.0	2.67	50	34.40	9.28
6294.0	.03	100	5.5	.0	2.65	43	34.35	9.28
6295.0	.01	100	4.6	.0	2.65	47	34.25	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6297.0	.01	100	4.8	.0	2.65	47	34.20	9.28
6298.0	.01	100	4.8	.0	2.65	49	34.16	9.28
6300.0	.04	100	5.8	.0	2.65	50	34.05	9.28
6304.0	.01	100	4.4	.0	2.65	46	33.88	9.28
6305.0	.00	100	2.4	.0	2.68	49	33.83	9.28
6308.0	.00	100	2.8	.0	2.70	48	33.77	9.28
6309.0	.01	100	4.3	.0	2.65	39	33.75	9.28
6310.0	.02	100	5.1	.0	2.65	36	33.70	9.28
6312.0	.01	100	4.3	.0	2.65	49	33.63	9.28
6313.0	.01	100	4.3	.0	2.65	47	33.59	9.28
6314.0	.01	100	4.4	.0	2.65	50	33.55	9.28
6315.0	.01	100	4.4	.0	2.65	50	33.50	9.28
6317.0	.00	100	4.0	.0	2.65	44	33.42	9.28
6318.0	.02	100	5.2	.0	2.65	47	33.38	9.28
6325.0	.00	100	3.5	.0	2.65	38	33.20	9.28
6329.0	.00	100	3.5	.0	2.65	43	33.11	9.28
6331.0	.00	100	2.4	.0	2.69	35	33.06	9.28
6332.0	.00	100	2.2	.0	2.66	47	33.04	9.28
6338.0	.00	100	1.6	.0	2.67	50	32.92	9.28
6340.0	.00	100	3.0	.0	2.68	47	32.88	9.28
6344.0	.00	100	2.5	.0	2.70	50	32.76	9.28
6350.0	.00	100	1.3	.0	2.71	47	32.63	9.28
6351.0	.00	100	.0	.0	2.76	48	32.62	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6363.0	.00	100	.3	.0	2.71	42	32.62	9.28
6364.0	.00	100	1.0	.0	2.68	43	32.62	9.28
6365.0	.00	100	1.2	.0	2.69	40	32.60	9.28
6367.0	.00	100	.0	.0	2.71	48	32.60	9.28
6368.0	.00	100	.0	.0	2.69	48	32.60	9.28
6370.0	.00	100	1.7	.0	2.65	43	32.59	9.28
6371.0	.00	100	.2	.0	2.69	48	32.58	9.28
6372.0	.00	100	.0	.0	2.77	45	32.57	9.28
6373.0	.00	100	.4	.0	2.70	38	32.57	9.28
6374.0	.00	100	.8	.0	2.66	42	32.57	9.28
6378.0	.00	100	.0	.0	2.77	29	32.56	9.28
6379.0	.00	100	.0	.0	2.71	20	32.56	9.28
6380.0	.00	100	.0	.0	2.76	25	32.56	9.28
6381.0	.00	100	.0	.0	2.73	20	32.56	9.28
6382.0	.00	100	.0	.0	2.73	10	32.56	9.28
6383.0	.00	100	.0	.0	2.77	13	32.56	9.28
6384.0	.00	100	.0	.0	2.75	8	32.56	9.28
6385.0	.00	100	.0	.0	2.77	11	32.56	9.28
6386.0	.00	100	.0	.0	2.79	13	32.56	9.28
6387.0	.00	100	.0	.0	2.75	5	32.56	9.28
6388.0	.00	100	.0	.0	2.74	0	32.56	9.28
6389.0	.00	100	.0	.0	2.73	0	32.56	9.28
6390.0	.00	100	.0	.0	2.74	3	32.56	9.28
6391.0	.00	100	.0	.0	2.75	5	32.56	9.28
6392.0	.00	100	.0	.0	2.77	8	32.56	9.28
6393.0	.00	100	.0	.0	2.76	8	32.56	9.28
6394.0	.00	100	.0	.0	2.74	0	32.56	9.28
6395.0	.00	100	.0	.0	2.76	6	32.56	9.28
6396.0	.00	100	.1	.0	2.77	11	32.56	9.28
6397.0	.00	100	.0	.0	2.75	6	32.56	9.28
6398.0	.00	100	.0	.0	2.73	10	32.56	9.28
6399.0	.00	100	.0	.0	2.75	1	32.56	9.28
6400.0	.00	100	.0	.0	2.71	1	32.56	9.28
6401.0	.00	100	.0	.0	2.71	0	32.56	9.28
6402.0	.00	100	.0	.0	2.74	1	32.56	9.28
6403.0	.00	100	.0	.0	2.75	1	32.56	9.28
6404.0	.00	100	.0	.0	2.75	1	32.56	9.28
6405.0	.00	100	.0	.0	2.76	0	32.56	9.28
6406.0	.00	100	.0	.0	2.75	1	32.56	9.28
6407.0	.00	100	.0	.0	2.79	3	32.56	9.28
6408.0	.00	100	.0	.0	2.78	8	32.56	9.28
6409.0	.00	100	.0	.0	2.76	6	32.56	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6410.0	.00	100	.0	.0	2.77	6	32.56	9.28
6411.0	.00	100	.0	.0	2.75	6	32.56	9.28
6412.0	.00	100	.0	.0	2.74	6	32.56	9.28
6413.0	.00	100	.3	.0	2.77	8	32.56	9.28
6414.0	.00	100	.0	.0	2.75	6	32.56	9.28
6415.0	.00	100	.4	.0	2.74	9	32.56	9.28
6416.0	.00	100	.5	.0	2.72	8	32.55	9.28
6417.0	.00	100	1.0	.0	2.71	8	32.54	9.28
6418.0	.12	100	7.1	.0	2.63	9	32.51	9.28
6419.0	1.14	100	10.2	2.7	2.63	15	32.43	9.28
6420.0	1.32	96	10.5	2.3	2.62	16	32.33	9.28
6421.0	1.54	91	10.7	2.2	2.62	11	32.22	9.27
6422.0	1.03	92	10.1	4.2	2.63	12	32.12	9.26
6423.0	1.14	92	10.2	1.5	2.64	11	32.02	9.25
6424.0	1.56	95	10.8	1.9	2.61	12	31.91	9.25
6425.0	5.52	84	13.3	.0	2.62	11	31.80	9.24
6426.0	123.84	53	22.3	1.5	2.62	10	31.64	9.20
6427.0	244.14	52	25.0	3.4	2.39	0	31.42	9.09
6428.0	244.14	54	25.0	3.7	2.33	0	31.17	8.98
6429.0	244.14	51	25.0	4.6	2.40	0	30.92	8.86
6430.0	256.12	46	25.0	12.1	2.52	0	30.67	8.74
6431.0	100.71	48	21.3	16.5	2.71	0	30.42	8.60
6432.0	.21	100	7.7	2.2	2.78	0	30.23	8.52
6433.0	.00	100	1.5	.3	2.74	12	30.18	8.52
6434.0	.00	100	2.6	.0	2.70	9	30.17	8.52
6435.0	.00	100	4.0	.0	2.69	9	30.14	8.52
6436.0	.00	100	3.9	.0	2.70	11	30.10	8.52
6437.0	.01	100	4.6	.0	2.71	11	30.06	8.52
6438.0	.61	88	9.2	.0	2.65	9	30.00	8.52
6439.0	1.65	66	10.9	.0	2.60	11	29.90	8.50
6440.0	.37	91	8.5	4.1	2.58	8	29.79	8.46
6441.0	.07	100	6.4	.0	2.63	9	29.71	8.46
6442.0	.11	100	7.0	.0	2.65	6	29.65	8.46
6443.0	.22	100	7.8	.0	2.64	6	29.58	8.46
6444.0	.06	100	6.3	.8	2.67	8	29.50	8.46
6445.0	.08	100	6.5	.0	2.66	8	29.44	8.46
6446.0	.13	100	7.1	.2	2.65	9	29.38	8.46
6447.0	1.28	100	10.4	.0	2.63	6	29.30	8.46
6448.0	7.52	77	14.0	.0	2.65	6	29.18	8.46
6449.0	99.54	50	21.5	10.2	2.70	0	29.03	8.41
6450.0	280.87	43	24.5	14.8	2.72	0	28.80	8.29
6451.0	88.50	51	21.1	15.6	2.70	0	28.56	8.16
6452.0	10.85	76	14.9	5.2	2.70	0	28.32	8.07
6453.0	.30	100	8.2	.0	2.70	9	28.24	8.05
6454.0	.02	100	5.2	1.2	2.69	6	28.17	8.06
6455.0	.00	100	3.9	.5	2.72	6	28.12	8.06
6456.0	.01	100	4.1	2.5	2.71	9	28.08	8.06
6457.0	.00	100	3.1	2.4	2.70	9	28.04	8.06

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6458.0	.00	100	1.8	1.1	2.69	8	28.01	8.06
6459.0	.01	100	4.4	1.3	2.68	8	27.99	8.06
6460.0	.96	94	9.9	8.0	2.62	6	27.93	8.05
6461.0	1.57	82	10.8	7.0	2.62	7	27.83	8.04
6462.0	.20	100	7.7	4.7	2.67	8	27.73	8.03
6463.0	.06	100	6.3	2.8	2.66	6	27.65	8.03
6464.0	.01	100	4.6	.0	2.68	6	27.59	8.03
6465.0	.00	100	3.7	.9	2.71	9	27.55	8.03
6466.0	.01	100	4.3	.0	2.70	9	27.51	8.03
6467.0	.06	100	6.2	1.1	2.68	8	27.47	8.03
6468.0	.01	100	4.9	1.6	2.71	8	27.41	8.03
6469.0	.00	100	3.1	.4	2.74	8	27.35	8.03
6470.0	.00	100	1.6	.0	2.82	8	27.34	8.03
6471.0	.00	100	1.9	.0	2.78	9	27.32	8.03
6472.0	.00	100	2.0	.0	2.77	9	27.30	8.03
6473.0	.00	100	2.5	.0	2.77	8	27.28	8.03
6474.0	.00	100	3.9	.0	2.73	11	27.26	8.03
6475.0	5.87	84	13.4	.0	2.62	12	27.20	8.03
6476.0	106.09	52	21.8	.0	2.66	12	27.03	7.98
6477.0	81.23	56	20.8	.0	2.59	16	26.82	7.88
6478.0	76.89	59	20.6	.7	2.57	17	26.61	7.79
6479.0	176.52	56	23.7	5.5	2.67	5	26.40	7.71
6480.0	169.73	57	23.5	19.0	2.69	0	26.16	7.60
6481.0	2.71	100	11.8	8.1	2.67	0	25.95	7.53
6482.0	.00	100	3.6	3.5	2.73	11	25.86	7.53
6483.0	.00	100	.9	.0	2.75	10	25.83	7.53
6484.0	.00	100	3.0	2.5	2.69	13	25.82	7.53
6485.0	2.63	100	11.7	.0	2.63	13	25.77	7.53
6486.0	90.51	76	21.2	2.2	2.64	15	25.62	7.53
6487.0	105.54	71	21.7	6.4	2.65	13	25.41	7.47
6488.0	85.77	70	21.0	4.8	2.65	16	25.20	7.41
6489.0	108.89	65	21.9	.0	2.53	12	24.99	7.35
6490.0	104.68	62	21.7	.0	2.52	13	24.77	7.27
6491.0	142.76	57	22.9	3.7	2.60	8	24.55	7.19
6492.0	261.38	48	25.0	9.0	2.68	0	24.32	7.08
6493.0	57.42	52	20.2	4.0	2.66	16	24.08	6.96
6494.0	62.59	50	19.9	4.5	2.67	17	23.83	6.87
6495.0	70.84	47	20.0	5.8	2.68	14	23.68	6.77
6496.0	14.20	57	15.6	6.9	2.67	9	23.49	6.67
6497.0	.33	100	8.3	8.3	2.67	0	23.34	6.62
6498.0	.00	100	2.0	1.4	2.75	12	23.28	6.62
6499.0	.00	100	.0	.0	2.77	11	23.27	6.62
6500.0	.00	100	.8	.0	2.73	7	23.27	6.62
6501.0	.00	100	.3	.0	2.77	5	23.26	6.62
6502.0	.00	100	3.1	.0	2.71	6	23.25	6.62
6503.0	.00	81	4.1	.0	2.66	8	23.22	6.62
6504.0	.02	76	5.1	.0	2.65	0	23.16	6.60
6505.0	.01	100	4.7	.0	2.65	1	23.11	6.59

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6506.0	.01	100	4.1	.0	2.65	0	23.07	6.59
6507.0	.00	100	3.2	.0	2.65	3	23.03	6.59
6508.0	.00	100	3.9	.0	2.65	7	22.99	6.59
6509.0	.00	90	.3	.0	2.70	17	22.97	6.
6510.0	.00	100	.0	.0	2.76	15	22.97	6.59
6511.0	.00	100	.0	.0	2.79	15	22.97	6.59
6512.0	.00	100	.0	.0	2.75	14	22.97	6.59
6513.0	.00	100	.0	.0	2.75	13	22.97	6.59
6514.0	.00	100	.0	.0	2.78	14	22.97	6.59
6515.0	.00	100	.0	.0	2.75	13	22.97	6.59
6515.0	.00	100	.1	.0	2.73	11	22.97	6.59
6517.0	.00	100	.0	.0	2.72	12	22.97	6.59
6518.0	.00	100	.0	.0	2.76	12	22.97	6.59
6519.0	.00	100	.0	.0	2.79	11	22.97	6.59
6520.0	.00	100	.0	.0	2.77	11	22.97	6.59
6521.0	.00	100	.0	.0	2.72	11	22.97	6.59
6522.0	.00	100	.0	.0	2.72	12	22.96	6.59
6523.0	.00	100	2.6	.0	2.69	11	22.96	6.59
6524.0	.01	100	4.3	.0	2.65	0	22.92	6.59
6525.0	.06	100	6.3	.0	2.75	0	22.86	6.59
6526.0	.00	100	3.5	.0	2.76	0	22.81	6.59
6527.0	.00	100	3.3	.0	2.62	0	22.78	6.59
6528.0	.00	100	2.5	.0	2.71	0	22.75	6.59
6529.0	.00	22	1.2	.0	2.70	17	22.73	6.59
6530.0	.00	33	.9	.0	2.70	12	22.72	6.58
6531.0	.00	81	.4	.0	2.71	11	22.71	6.58
6532.0	.00	69	.5	.0	2.73	12	22.70	6.57
6533.0	.00	26	1.6	.0	2.75	12	22.70	6.56
6534.0	.00	52	.9	.0	2.72	11	22.68	6.55
6535.0	.00	84	1.4	.0	2.72	9	22.67	6.55
6536.0	.00	100	.0	.0	2.66	14	22.66	6.55
6537.0	.00	100	4.0	.0	2.65	3	22.65	6.55
6538.0	.00	100	2.7	.0	2.65	10	22.61	6.55
6539.0	.00	100	3.2	.0	2.70	6	22.59	6.55
6540.0	.04	99	5.1	.0	2.65	2	22.56	6.55
6541.0	.12	83	7.0	.0	2.65	1	22.49	6.53
6542.0	.08	79	6.5	.0	2.65	3	22.43	6.53
6543.0	.18	59	7.5	.0	2.67	5	22.35	6.51
6544.0	.54	43	8.6	.0	2.74	0	22.28	6.47
6545.0	.05	51	5.1	.0	2.75	0	22.20	6.42
6546.0	.00	100	3.9	.0	2.75	0	22.14	6.40
6547.0	.00	100	3.8	.0	2.65	3	22.11	6.40
6548.0	.00	100	2.7	.0	2.67	6	22.06	6.40
6549.0	.00	63	1.1	.0	2.68	13	22.04	6.40
6550.0	.00	106	1.8	.0	2.67	10	22.03	6.40
6551.0	.00	100	3.6	.0	2.65	0	22.01	6.40
6552.0	.00	100	3.9	.0	2.67	4	21.97	6.40
6553.0	.00	100	3.4	.0	2.65	1	21.93	6.40

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6554.0	1.00	55	10.0	.0	2.65	5	21.89	6.40
6555.0	.01	100	4.9	.0	2.65	9	21.79	6.35
6556.0	1.96	46	10.9	.0	2.65	12	21.72	6.33
6557.0	.03	100	5.6	.0	2.65	18	21.61	6.30
6558.0	.10	69	5.8	.0	2.65	14	21.56	6.30
6559.0	.02	92	5.4	.0	2.65	13	21.50	6.29
6560.0	.09	78	6.7	.0	2.65	13	21.44	6.28
6561.0	.13	57	7.2	.0	2.68	19	21.38	6.26
6562.0	.94	51	9.9	.0	2.69	14	21.30	6.22
6563.0	1.49	51	10.7	.0	2.72	11	21.20	6.17
6564.0	1.04	55	10.1	.0	2.70	9	21.09	6.13
6565.0	.77	57	9.6	.0	2.70	9	20.99	6.08
6566.0	1.87	48	11.0	.0	2.73	9	20.90	6.04
6567.0	.43	59	8.7	.0	2.71	11	20.79	5.99
6568.0	.10	73	6.8	.0	2.71	11	20.71	5.96
6569.0	.20	69	7.7	.0	2.67	9	20.64	5.94
6570.0	.13	81	7.1	.0	2.67	10	20.58	5.92
6571.0	.08	90	6.6	.0	2.68	11	20.49	5.91
6572.0	.15	77	7.3	.0	2.66	11	20.42	5.90
6573.0	.46	56	8.6	.0	2.69	13	20.35	5.87
6574.0	.03	75	5.0	.0	2.75	15	20.26	5.84
6575.0	.00	100	1.0	.0	2.78	12	20.22	5.83
6576.0	.00	100	.6	.0	2.73	9	20.21	5.83
6577.0	.00	100	.6	.0	2.74	8	20.20	5.83
6578.0	.00	100	.3	.0	2.75	8	20.20	5.83
6579.0	.00	100	2.4	.0	2.72	9	20.19	5.83
6580.0	.00	100	1.7	.0	2.74	8	20.16	5.83
6581.0	.00	100	2.6	.0	2.69	8	20.14	5.83
6582.0	.00	100	2.1	.0	2.67	7	20.12	5.83
6583.0	.00	100	3.0	.0	2.67	7	20.09	5.83
6584.0	.00	100	2.9	.0	2.75	8	20.06	5.83
6585.0	.00	100	2.7	.0	2.71	9	20.03	5.83
6586.0	.01	100	4.6	.0	2.68	9	20.00	5.83
6587.0	.00	100	3.1	.0	2.72	9	19.96	5.83
6588.0	.00	100	3.8	.0	2.72	6	19.93	5.83
6589.0	.00	100	3.6	.0	2.71	5	19.89	5.83
6590.0	.00	100	3.0	.0	2.71	6	19.85	5.83
6591.0	.01	100	4.6	.0	2.71	7	19.82	5.83
6592.0	.00	100	2.9	.0	2.70	6	19.78	5.83
6593.0	.00	100	3.6	.0	2.73	5	19.75	5.83
6594.0	.00	100	3.6	.0	2.68	5	19.71	5.83
6595.0	.00	100	3.1	.0	2.65	0	19.67	5.83
6596.0	.00	100	3.4	.0	2.66	8	19.63	5.83
6597.0	.00	100	3.0	.0	2.69	5	19.59	5.83
6598.0	.00	100	2.9	.0	2.68	8	19.56	5.83
6599.0	.03	78	5.7	.0	2.65	0	19.53	5.83
6600.0	.01	93	4.4	.0	2.66	5	19.47	5.81
6601.0	.00	100	3.5	.0	2.67	5	19.43	5.81

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6602.0	.00	100	2.2	.0	2.70	6	19.40	5.81
6603.0	.00	100	2.3	.0	2.69	7	19.37	5.80
6604.0	.00	94	3.7	.0	2.69	6	19.34	5.80
6605.0	.00	100	3.4	.0	2.65	0	19.31	5.80
6606.0	.01	63	4.6	.0	2.65	0	19.25	5.79
6607.0	.00	100	4.0	.0	2.65	0	19.25	5.79
6608.0	.02	91	5.1	.0	2.65	0	19.19	5.79
6609.0	.00	61	3.6	.0	2.71	6	19.14	5.78
6610.0	.00	74	1.3	.0	2.73	7	19.12	5.77
6611.0	.00	76	1.4	.0	2.73	6	19.10	5.77
6612.0	.00	74	1.3	.0	2.72	7	19.09	5.76
6613.0	.00	67	1.3	.0	2.71	7	19.08	5.76
6614.0	.00	100	.3	.0	2.74	6	19.07	5.76
6615.0	.00	100	.0	.0	2.80	5	19.06	5.76
6616.0	.00	100	.0	.0	2.79	7	19.06	5.76
6617.0	.00	100	.0	.0	2.74	7	19.06	5.76
6618.0	.00	100	.6	.0	2.73	7	19.06	5.76
6619.0	.00	100	.7	.0	2.74	8	19.06	5.76
6620.0	.00	100	.3	.0	2.76	9	19.05	5.76
6621.0	.00	100	.0	.0	2.77	11	19.05	5.76
6622.0	.00	100	.4	.0	2.75	8	19.05	5.76
6623.0	.00	100	1.0	.0	2.74	6	19.04	5.76
6624.0	.00	100	1.4	.0	2.74	8	19.03	5.76
6625.0	.00	81	.5	.0	2.76	11	19.02	5.75
6626.0	.00	73	.6	.0	2.75	11	19.01	5.75
6627.0	.00	100	.0	.0	2.75	8	19.01	5.75
6628.0	.00	100	.0	.0	2.82	9	19.01	5.75
6629.0	.00	100	.0	.0	2.79	8	19.01	5.75
6630.0	.00	84	.5	.0	2.76	9	19.01	5.75
6631.0	.00	83	.5	.0	2.75	10	19.00	5.75
6632.0	.00	96	.3	.0	2.74	9	19.00	5.75
6633.0	.00	100	.0	.0	2.76	9	18.99	5.74
6634.0	.00	100	.0	.0	2.76	9	18.99	5.74
6635.0	.00	100	.0	.0	2.78	8	18.99	5.74
6636.0	.00	100	.1	.0	2.76	8	18.99	5.74
6637.0	.00	100	.4	.0	2.74	8	18.99	5.74
6638.0	.00	95	.5	.0	2.73	8	18.99	5.74
6639.0	.00	100	.6	.0	2.73	6	18.98	5.74
6640.0	.00	100	.0	.0	2.76	6	18.98	5.74
6641.0	.00	100	.0	.0	2.76	6	18.98	5.74
6642.0	.00	100	.0	.0	2.78	6	18.98	5.74
6643.0	.00	100	.0	.0	2.77	6	18.98	5.74
6644.0	.00	100	.0	.0	2.76	7	18.98	5.74
6645.0	.00	100	.2	.0	2.75	6	18.98	5.74
6646.0	.00	100	.8	.0	2.73	6	18.97	5.74
6647.0	.00	100	.9	.0	2.73	6	18.97	5.74
6648.0	.00	100	1.0	.0	2.74	7	18.96	5.74
6649.0	.00	100	.9	.0	2.73	6	18.95	5.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6650.0	.00	100	.1	.0	2.72	5	18.94	5.74
6651.0	.00	100	.6	.0	2.73	8	18.94	5.74
6652.0	.00	100	.8	.2	2.72	8	18.93	5.74
6653.0	.00	100	.5	.0	2.71	7	18.92	5.74
6654.0	.00	100	.3	.0	2.70	5	18.92	5.74
6655.0	.00	100	.0	.0	2.72	7	18.91	5.74
6656.0	.00	100	.0	.0	2.73	5	18.91	5.74
6657.0	.00	100	.0	.0	2.75	0	18.91	5.74
6658.0	.00	100	.0	.0	2.75	0	18.91	5.74
6659.0	.00	100	.0	.0	2.78	0	18.91	5.74
6660.0	.00	100	.0	.0	2.77	0	18.91	5.74
6661.0	.00	100	.0	.0	2.76	0	18.91	5.74
6662.0	.00	100	.0	.0	2.77	0	18.91	5.74
6663.0	.00	100	.0	.0	2.74	0	18.91	5.74
6664.0	.00	100	.0	.0	2.72	0	18.91	5.74
6665.0	.00	100	.0	.0	2.73	0	18.91	5.74
6666.0	.00	100	.0	.0	2.74	0	18.91	5.74
6667.0	.00	100	.0	.0	2.71	0	18.91	5.74
6668.0	.00	100	.0	.0	2.73	0	18.91	5.74
6669.0	.00	100	.0	.0	2.71	0	18.91	5.74
6670.0	.00	100	.0	.0	2.75	1	18.91	5.74
6671.0	.00	100	.0	.0	2.76	0	18.91	5.74
6672.0	.00	100	.0	.0	2.74	0	18.91	5.74
6673.0	.00	100	.0	.0	2.75	0	18.91	5.74
6674.0	.00	100	.0	.0	2.72	0	18.91	5.74
6675.0	.00	100	.0	.0	2.71	0	18.91	5.74
6676.0	.00	100	.1	.0	2.71	0	18.91	5.74
6677.0	.00	100	.0	.0	2.71	0	18.91	5.74
6678.0	.00	100	.0	.0	2.72	5	18.91	5.74
6679.0	.00	100	.3	.0	2.79	8	18.91	5.74
6680.0	.00	100	.7	.0	2.86	11	18.91	5.74
6681.0	.00	100	1.1	.0	2.85	12	18.90	5.74
6682.0	.00	100	1.2	.0	2.87	14	18.89	5.74
6683.0	.00	100	.5	.0	2.88	15	18.88	5.74
6684.0	.00	100	.3	.0	2.83	13	18.88	5.74
6685.0	.00	100	.1	.0	2.86	12	18.87	5.74
6686.0	.00	100	.3	.0	2.87	11	18.87	5.74
6687.0	.00	100	.5	.0	2.87	8	18.87	5.74
6688.0	.00	100	.7	.0	2.91	8	18.86	5.74
6689.0	.00	100	.7	.0	2.88	11	18.86	5.74
6690.0	.00	100	1.2	.0	2.85	12	18.85	5.74
6691.0	.00	100	1.0	.0	2.83	12	18.84	5.74
6692.0	.00	100	.6	.0	2.83	13	18.83	5.74
6693.0	.00	100	.7	.7	2.89	17	18.82	5.74
6694.0	.00	100	.9	.0	2.85	22	18.81	5.74
6695.0	.00	100	1.8	.0	2.86	20	18.80	5.74
6696.0	.00	100	3.8	1.1	2.82	0	18.78	5.74
6697.0	.00	100	.1	.1	2.90	25	18.76	5.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6698.0	.00	100	.8	.0	2.83	18	18.76	5.74
6699.0	.00	100	.6	.0	2.80	15	18.75	5.74
6700.0	.00	100	.0	.0	2.76	5	18.75	5.74
6701.0	.00	100	.0	.0	2.75	0	18.75	5.74
6702.0	.00	100	.0	.0	2.75	3	18.75	5.74
6703.0	.00	100	.0	.0	2.72	5	18.75	5.74
6704.0	.00	100	.0	.0	2.73	0	18.75	5.74
6705.0	.00	100	.0	.0	2.74	3	18.75	5.74
6706.0	.00	100	.0	.0	2.76	5	18.75	5.74
6707.0	.00	100	.0	.0	2.81	5	18.75	5.74
6708.0	.00	100	.2	.0	2.84	8	18.75	5.74
6709.0	.00	100	.8	.8	2.91	9	18.74	5.74
6710.0	.00	100	.8	.8	2.92	14	18.74	5.74
6711.0	.00	100	1.0	.5	2.85	15	18.73	5.74
6712.0	.00	100	1.4	.8	2.85	8	18.72	5.74
6713.0	.00	100	.9	.0	2.83	13	18.71	5.74
6714.0	.00	100	1.1	.0	2.83	12	18.70	5.74
6715.0	.00	100	1.5	.0	2.87	12	18.69	5.74
6716.0	.00	100	1.8	.0	2.87	14	18.67	5.74
6717.0	.00	100	2.1	.0	2.86	20	18.65	5.74
6718.0	.00	100	2.9	.2	2.85	7	18.63	5.74
6719.0	.00	100	.0	.0	2.90	25	18.61	5.74
6720.0	.00	100	.0	.0	2.93	28	18.61	5.74
6721.0	.00	100	.9	.8	2.86	12	18.61	5.74
6722.0	.00	100	.0	.0	2.87	20	18.60	5.74
6723.0	.00	100	1.1	1.1	2.89	12	18.60	5.74
6724.0	.00	100	1.6	.2	2.87	21	18.59	5.74
6725.0	.00	100	3.1	.3	2.83	9	18.56	5.74
6726.0	.05	94	6.0	.0	2.71	11	18.53	5.74
6727.0	117.76	27	18.2	.2	2.79	14	18.45	5.72
6728.0	1149.87	23	25.0	7.0	2.85	0	18.25	5.57
6729.0	996.25	24	23.0	21.7	2.70	0	18.00	5.38
6730.0	127.41	32	19.5	3.9	2.88	0	17.75	5.20
6731.0	.46	75	8.8	.0	2.82	22	17.60	5.11
6732.0	.35	72	8.4	.0	2.81	20	17.52	5.09
6733.0	.10	87	6.8	.3	2.75	12	17.43	5.07
6734.0	.01	100	4.5	.3	2.83	8	17.37	5.06
6735.0	.00	100	2.0	1.9	2.96	17	17.33	5.06
6736.0	.00	100	2.5	.0	2.93	13	17.31	5.06
6737.0	.00	100	2.4	1.5	2.93	13	17.29	5.06
6738.0	.00	100	2.4	.0	2.93	11	17.26	5.06
6739.0	.00	100	1.9	.0	2.85	10	17.24	5.06
6740.0	.00	100	1.8	.5	2.86	6	17.22	5.06
6741.0	.00	100	1.7	.0	2.89	8	17.20	5.06
6742.0	.00	100	1.2	.0	2.85	9	17.19	5.06
6743.0	.00	100	1.8	.0	2.82	9	17.17	5.06
6744.0	.00	100	2.4	.0	2.88	6	17.15	5.06
6745.0	.00	100	2.0	.1	2.82	6	17.13	5.06

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6746.0	.00	100	1.8	.0	2.84	8	17.11	5.06
6747.0	.00	100	2.1	.0	2.87	9	17.09	5.06
6748.0	.00	100	2.3	.8	2.83	8	17.07	5.06
6749.0	.00	100	1.9	.1	2.87	6	17.04	5.06
6750.0	.00	100	1.7	.0	2.86	6	17.02	5.06
6751.0	.00	100	1.7	.0	2.87	6	17.01	5.06
6752.0	.00	100	1.8	.5	2.89	8	16.99	5.06
6753.0	.00	100	2.0	.3	2.89	8	16.97	5.06
6754.0	.00	100	1.3	.0	2.84	8	16.95	5.06
6755.0	.00	100	1.8	.0	2.87	8	16.94	5.06
6756.0	.00	100	2.0	.0	2.84	6	16.92	5.06
6757.0	.00	100	1.9	.0	2.82	5	16.90	5.06
6758.0	.00	100	1.3	.0	2.83	7	16.88	5.06
6759.0	.00	100	1.0	.0	2.88	8	16.87	5.06
6760.0	.00	100	1.1	.0	2.85	6	16.86	5.06
6761.0	.00	100	1.8	.0	2.87	5	16.85	5.06
6762.0	.00	100	2.8	.0	2.91	6	16.82	5.06
6763.0	.00	100	2.5	.0	2.87	5	16.80	5.06
6764.0	.00	85	2.9	.0	2.85	5	16.77	5.06
6765.0	.00	100	2.4	.0	2.87	3	16.74	5.06
6766.0	.00	100	2.2	.0	2.87	3	16.72	5.06
6767.0	.00	100	2.3	.0	2.86	2	16.70	5.06
6768.0	.00	100	2.3	.0	2.76	4	16.68	5.06
6769.0	.00	100	3.1	.0	2.75	5	16.65	5.06
6770.0	.01	84	4.3	.0	2.80	6	16.62	5.06
6771.0	.01	100	4.3	.0	2.79	6	16.57	5.05
6772.0	.00	100	3.4	.0	2.75	7	16.53	5.05
6773.0	.00	100	3.4	.0	2.78	8	16.50	5.05
6774.0	.00	100	3.4	.6	2.75	6	16.46	5.05
6775.0	.00	100	1.5	.1	2.71	5	16.43	5.05
6776.0	.00	100	.2	.0	2.70	3	16.42	5.05
6777.0	.00	100	.2	.1	2.71	0	16.42	5.05
6778.0	.00	100	.0	.0	2.75	0	16.42	5.05
6779.0	.00	100	.0	.0	2.74	0	16.42	5.05
6780.0	.00	100	.0	.0	2.75	0	16.42	5.05
6781.0	.00	100	.0	.0	2.77	0	16.42	5.05
6782.0	.00	100	.0	.0	2.76	1	16.42	5.05
6783.0	.00	100	.4	.0	2.78	3	16.42	5.05
6784.0	.00	100	2.0	.3	2.84	3	16.41	5.05
6785.0	.00	100	1.8	.6	2.90	0	16.39	5.05
6786.0	.00	100	.6	.3	2.85	0	16.37	5.05
6787.0	.00	100	.0	.0	2.81	0	16.37	5.05
6788.0	.00	100	.0	.0	2.79	3	16.37	5.05
6789.0	.00	100	.0	.0	2.72	0	16.37	5.05
6790.0	.00	100	.0	.0	2.76	1	16.37	5.05
6791.0	.00	100	.1	.0	2.75	5	16.37	5.05
6792.0	.00	100	1.4	.0	2.73	5	16.37	5.05
6793.0	.00	100	2.1	.0	2.74	6	16.35	5.05

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6794.0	.00	100	1.6	1.2	2.69	7	16.33	5.05
6795.0	.00	100	.1	.1	2.71	6	16.32	5.05
6796.0	.00	100	.4	.4	2.70	0	16.32	5.05
6797.0	.00	100	.4	.4	2.70	0	16.31	5.05
6798.0	.00	100	.0	.0	2.72	0	16.31	5.05
6799.0	.00	100	.0	.0	2.73	0	16.31	5.05
6800.0	.00	100	.0	.0	2.75	0	16.31	5.05
6801.0	.00	100	.0	.0	2.74	0	16.31	5.05
6802.0	.00	100	.0	.0	2.73	0	16.31	5.05
6803.0	.00	100	.0	.0	2.72	0	16.31	5.05
6804.0	.00	100	.0	.0	2.72	0	16.31	5.05
6805.0	.00	100	.0	.0	2.71	0	16.31	5.05
6806.0	.00	100	.0	.0	2.71	0	16.31	5.05
6807.0	.00	100	.0	.0	2.72	0	16.31	5.05
6808.0	.00	100	.0	.0	2.76	1	16.31	5.05
6809.0	.00	100	.0	.0	2.76	6	16.31	5.05
6810.0	.00	100	.0	.0	2.76	3	16.31	5.05
6811.0	.00	100	.0	.0	2.78	3	16.31	5.05
6812.0	.00	100	.0	.0	2.74	1	16.31	5.05
6813.0	.00	100	.1	.1	2.71	3	16.31	5.05
6814.0	.00	100	.2	.0	2.71	1	16.31	5.05
6815.0	.00	100	.0	.0	2.72	0	16.31	5.05
6816.0	.00	100	.0	.0	2.77	0	16.31	5.05
6817.0	.00	100	.0	.0	2.75	0	16.31	5.05
6818.0	.00	100	.0	.0	2.71	0	16.31	5.05
6819.0	.00	100	.0	.0	2.72	0	16.31	5.05
6820.0	.00	100	.0	.0	2.73	0	16.31	5.05
6821.0	.00	100	.1	.0	2.71	0	16.31	5.05
6822.0	.00	100	.1	.0	2.71	0	16.30	5.05
6823.0	.00	100	.0	.0	2.71	0	16.30	5.05
6824.0	.00	100	.0	.0	2.74	2	16.30	5.05
6825.0	.00	100	.0	.0	2.75	2	16.30	5.05
6826.0	.00	100	.0	.0	2.74	1	16.30	5.05
6827.0	.00	100	2.0	.0	2.71	0	16.30	5.05
6828.0	.42	55	8.6	.0	2.79	2	16.27	5.05
6829.0	434.41	23	21.3	.0	2.90	0	16.14	4.97
6830.0	781.20	21	22.8	.0	2.71	0	15.92	4.80
6831.0	91.38	30	18.1	.0	2.71	0	15.70	4.67
6832.0	211.72	21	18.3	.0	2.71	0	15.52	4.50
6833.0	15.22	13	10.0	.0	2.75	0	15.33	4.35
6834.0	.41	14	5.7	.0	2.71	0	15.25	4.27
6835.0	.00	98	1.6	.0	2.71	0	15.20	4.24
6836.0	.00	100	1.0	.0	2.71	0	15.19	4.24
6837.0	.00	100	.1	.0	2.72	3	15.16	4.24
6838.0	.00	100	.0	.0	2.75	2	15.18	4.24
6839.0	.00	100	.2	.0	2.72	2	15.18	4.24
6840.0	.00	100	.0	.0	2.72	2	15.18	4.24
6841.0	.00	100	.2	.2	2.70	1	15.18	4.24

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6842.0	.00	100	.3	.0	2.74	1	15.18	4.24
6843.0	.00	100	.6	.0	2.72	1	15.17	4.24
6844.0	.00	100	.8	.1	2.74	2	15.17	4.24
6845.0	.00	100	.5	.0	2.74	3	15.16	4.24
6846.0	.00	100	1.4	.0	2.74	6	15.15	4.24
6847.0	.00	100	.9	.0	2.74	9	15.14	4.24
6848.0	.00	100	1.0	.0	2.71	10	15.13	4.24
6849.0	.00	100	.8	.0	2.71	8	15.12	4.24
6850.0	.00	100	.6	.0	2.71	11	15.11	4.24
6851.0	.00	100	1.0	.0	2.70	9	15.10	4.24
6852.0	.00	100	.4	.0	2.73	8	15.09	4.24
6853.0	.00	100	.3	.0	2.73	5	15.09	4.24
6854.0	.00	100	.8	.0	2.72	3	15.09	4.24
6855.0	.00	100	1.4	.0	2.71	2	15.08	4.24
6856.0	.00	60	3.1	1.5	2.71	1	15.06	4.24
6857.0	.00	66	3.6	.0	2.70	2	15.03	4.22
6858.0	.00	93	3.2	.0	2.68	2	14.99	4.21
6859.0	.00	100	1.3	.0	2.69	1	14.97	4.21
6860.0	.00	100	1.2	.0	2.68	0	14.95	4.21
6861.0	.00	100	2.3	.2	2.69	1	14.94	4.21
6862.0	.00	100	1.5	.0	2.72	1	14.92	4.21
6863.0	.00	100	1.9	.0	2.70	0	14.90	4.21
6864.0	.00	100	2.0	1.3	2.69	1	14.88	4.21
6865.0	.00	100	2.0	.0	2.70	0	14.86	4.21
6866.0	.00	100	2.4	1.2	2.69	1	14.84	4.21
6867.0	.00	100	3.3	1.6	2.70	3	14.81	4.21
6868.0	.00	100	2.1	.0	2.70	4	14.78	4.21
6869.0	.00	100	.5	.0	2.71	7	14.76	4.21
6870.0	.00	100	.3	.0	2.70	5	14.76	4.21
6871.0	.00	100	.4	.2	2.70	4	14.76	4.21
6872.0	.00	100	.4	.4	2.71	9	14.76	4.21
6873.0	.00	100	1.1	.0	2.73	8	14.75	4.21
6874.0	.00	100	1.1	.3	2.69	8	14.74	4.21
6875.0	.00	100	1.6	.0	2.70	7	14.73	4.21
6876.0	.00	100	1.2	.0	2.69	6	14.71	4.21
6877.0	.00	100	1.0	.0	2.70	5	14.70	4.21
6878.0	.00	100	1.0	.0	2.74	4	14.69	4.21
6879.0	.00	100	.9	.0	2.74	5	14.68	4.21
6880.0	.00	100	1.0	.0	2.73	4	14.67	4.21
6881.0	.00	100	.9	.0	2.78	6	14.66	4.21
6882.0	.00	100	.6	.0	2.78	6	14.65	4.21
6883.0	.00	100	1.1	.0	2.75	3	14.65	4.21
6884.0	.00	100	1.3	.0	2.74	3	14.63	4.21
6885.0	.00	100	.8	.0	2.75	5	14.62	4.21
6886.0	.00	100	1.7	.0	2.69	4	14.61	4.21
6887.0	.00	100	1.0	.0	2.70	5	14.60	4.21
6888.0	.00	100	1.0	.0	2.69	5	14.59	4.21
6889.0	.00	100	.6	.0	2.70	5	14.58	4.21

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6890.0	.00	100	.3	.0	2.71	4	14.58	4.21
6891.0	.00	100	.7	.0	2.74	5	14.57	4.21
6892.0	.00	100	.9	.0	2.72	3	14.57	4.21
6893.0	.00	100	.5	.0	2.73	3	14.56	4.21
6894.0	.00	100	.3	.0	2.73	4	14.55	4.21
6895.0	.00	100	.9	.0	2.75	5	14.55	4.21
6896.0	.00	100	1.3	1.3	2.78	4	14.54	4.21
6897.0	.00	100	1.4	.4	2.75	4	14.53	4.21
6898.0	.00	100	1.2	.0	2.72	5	14.51	4.21
6899.0	.00	100	1.1	.0	2.75	7	14.50	4.21
6900.0	.00	100	.8	.8	2.71	6	14.49	4.21
6901.0	.00	100	.4	.2	2.73	3	14.48	4.21
6902.0	.00	100	.3	.0	2.73	3	14.48	4.21
6903.0	.00	100	.7	.0	2.74	3	14.48	4.21
6904.0	.00	100	.7	.2	2.73	3	14.47	4.21
6905.0	.00	100	2.0	.2	2.68	3	14.46	4.21
6906.0	.00	100	1.8	.0	2.73	3	14.44	4.21
6907.0	.00	100	2.7	1.3	2.78	4	14.42	4.21
6908.0	.00	100	4.1	1.2	2.82	0	14.39	4.21
6909.0	.00	100	3.9	1.8	2.79	0	14.35	4.21
6910.0	.00	100	1.8	.0	2.81	8	14.32	4.21
6911.0	.00	100	1.7	.2	2.91	8	14.30	4.21
6912.0	.00	100	1.9	1.4	2.89	8	14.28	4.21
6913.0	.00	100	2.7	.5	2.88	0	14.26	4.21
6914.0	.00	100	3.1	1.1	2.83	0	14.23	4.21
6915.0	.00	100	2.6	.0	2.82	2	14.20	4.21
6916.0	.00	100	2.6	.0	2.83	1	14.18	4.21
6917.0	.00	100	2.4	.0	2.85	2	14.15	4.21
6918.0	.00	100	2.3	.0	2.87	3	14.13	4.21
6919.0	.00	100	3.1	.0	2.87	3	14.10	4.21
6920.0	.00	100	3.5	.7	2.90	3	14.07	4.21
6921.0	.00	100	3.6	.0	2.86	3	14.05	4.21
6922.0	.02	100	5.0	.8	2.86	0	14.00	4.21
6923.0	.04	100	5.9	.5	2.81	6	13.94	4.21
6924.0	.02	100	5.0	.0	2.75	8	13.88	4.21
6925.0	.00	100	3.0	.8	2.77	10	13.84	4.21
6926.0	.00	100	2.1	.0	2.83	9	13.81	4.21
6927.0	.00	100	1.9	.2	2.84	6	13.79	4.21
6928.0	.00	100	1.1	.0	2.78	6	13.77	4.21
6929.0	.00	100	.8	.1	2.71	6	13.76	4.21
6930.0	.00	100	1.2	.5	2.70	7	13.75	4.21
6931.0	.00	100	.4	.0	2.70	3	13.74	4.21
6932.0	.00	100	.7	.5	2.70	6	13.74	4.21
6933.0	.00	100	1.8	1.8	2.69	6	13.73	4.21
6934.0	.00	100	1.7	1.7	2.67	9	13.71	4.21
6935.0	.00	100	1.4	1.4	2.69	8	13.69	4.21
6936.0	.00	100	1.0	.9	2.70	8	13.68	4.21
6937.0	.00	100	1.3	1.3	2.69	9	13.66	4.21

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6936.0	.00	100	2.0	2.0	2.67	8	13.65	4.21
6939.0	.00	100	.2	.2	2.70	6	13.63	4.21
6940.0	.00	100	.0	.0	2.72	0	13.63	4.21
6941.0	.00	100	.0	.0	2.74	0	13.63	4.21
6942.0	.00	100	.0	.0	2.73	1	13.63	4.21
6943.0	.00	100	.0	.0	2.73	1	13.63	4.21
6944.0	.00	100	1.0	1.0	2.68	1	13.63	4.21
6945.0	.00	100	2.2	2.2	2.67	3	13.62	4.21
6946.0	.00	100	2.2	2.2	2.68	3	13.59	4.21
6947.0	.00	100	.9	.0	2.72	2	13.57	4.21
6948.0	.00	100	1.2	.0	2.74	3	13.56	4.21
6949.0	.00	100	1.4	.0	2.71	3	13.55	4.21
6950.0	.00	100	2.7	2.1	2.69	1	13.53	4.21
6951.0	.00	100	3.1	3.1	2.71	0	13.51	4.21
6952.0	.00	100	3.9	1.9	2.75	4	13.47	4.21
6953.0	.01	81	5.0	1.9	2.77	6	13.43	4.21
6954.0	.07	57	5.4	2.6	2.79	0	13.38	4.19
6955.0	1.65	28	8.5	8.5	2.77	0	13.31	4.16
6956.0	1.43	19	7.7	6.2	2.75	0	13.22	4.09
6957.0	5.36	17	9.3	9.3	2.69	5	13.15	4.03
6958.0	.26	24	6.3	6.3	2.66	3	13.05	3.95
6959.0	.89	16	7.0	7.0	2.63	3	12.98	3.90
6960.0	.01	49	4.8	4.8	2.64	5	12.92	3.85
6961.0	.00	100	3.0	3.0	2.65	3	12.87	3.83
6962.0	.00	100	2.1	2.1	2.69	4	12.84	3.83
6963.0	.01	92	4.2	4.2	2.70	0	12.82	3.83
6964.0	.01	84	4.3	3.2	2.70	4	12.77	3.82
6965.0	.00	100	3.6	1.9	2.70	3	12.73	3.81
6966.0	.00	100	1.4	.2	2.73	3	12.70	3.81
6967.0	.00	100	1.1	.0	2.72	2	12.69	3.81
6968.0	.00	100	1.1	.0	2.71	4	12.67	3.81
5969.0	.00	100	2.5	1.4	2.70	4	12.66	3.81
6970.0	.01	100	4.2	2.4	2.67	3	12.63	3.81
6971.0	.03	100	5.4	1.1	2.67	3	12.59	3.81
6972.0	.02	100	5.2	2.4	2.69	5	12.53	3.81
6973.0	.01	96	4.6	2.7	2.71	4	12.48	3.81
6974.0	.03	66	5.6	2.6	2.69	2	12.43	3.80
6975.0	.02	72	5.3	2.3	2.67	2	12.38	3.79
6976.0	.03	76	5.7	4.2	2.67	1	12.32	3.77
6977.0	.01	96	4.2	1.9	2.67	2	12.27	3.76
6978.0	.00	100	3.2	.0	2.69	3	12.23	3.76
6979.0	.00	100	2.2	.4	2.70	3	12.20	3.76
6980.0	.00	100	2.9	1.7	2.73	3	12.17	3.76
6981.0	.00	100	3.6	.9	2.72	3	12.14	3.76
6982.0	.01	100	4.9	.8	2.74	3	12.10	3.76
6983.0	.02	95	5.3	1.7	2.68	5	12.05	3.75
6984.0	.03	90	5.5	1.0	2.71	4	12.00	3.75
6985.0	.08	71	5.6	1.0	2.73	6	11.94	3.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6986.0	.33	48	8.3	.0	2.68	5	11.87	3.71
6987.0	.08	60	6.6	3.8	2.63	6	11.79	3.67
6988.0	.00	100	3.6	.2	2.65	4	11.73	3.66
6989.0	.01	89	4.5	4.5	2.66	2	11.69	3.66
6990.0	.01	77	4.8	2.5	2.68	1	11.65	3.65
6991.0	.01	77	4.8	2.9	2.63	1	11.60	3.64
6992.0	.00	100	3.7	1.4	2.67	1	11.55	3.63
6993.0	.00	100	3.2	1.4	2.70	1	11.51	3.63
6994.0	.01	47	4.4	.0	2.70	0	11.48	3.63
6995.0	.01	27	3.9	.0	2.74	0	11.44	3.61
6996.0	.67	20	5.3	.0	2.74	1	11.39	3.57
6997.0	1.85	27	9.1	.0	2.71	1	11.31	3.51
6998.0	27.49	20	12.9	.0	2.83	0	11.22	3.44
6999.0	1641.14	10	20.4	.0	2.65	0	11.06	3.30
7000.0	87.21	15	14.2	.0	2.65	0	10.85	3.12
7001.0	.61	28	7.6	.0	2.65	0	10.75	3.04
7002.0	.18	17	5.3	.0	2.65	2	10.68	2.99
7003.0	3.57	10	7.4	.0	2.65	0	10.63	2.95
7004.0	4.55	10	7.7	.0	2.65	0	10.55	2.87
7005.0	411.72	5	13.3	.0	2.65	0	10.45	2.82
7006.0	19.52	23	12.8	.0	2.65	0	10.33	2.67
7007.0	.00	100	.0	.0	1.50	0	10.26	2.62
7008.0	.00	100	.0	.0	1.50	0	10.26	2.62
7009.0	.00	100	.0	.0	1.50	0	10.26	2.62
7010.0	4.49	36	11.5	.0	2.65	0	10.26	2.62
7011.0	5.17	18	8.6	.0	2.82	6	10.15	2.55
7012.0	.00	100	.0	.0	2.78	0	10.10	2.51
7013.0	.22	16	5.3	.0	2.75	1	10.07	2.48
7014.0	.00	47	2.5	.0	2.74	0	10.03	2.45
7015.0	.00	100	.0	.0	2.72	0	10.00	2.43
7016.0	.00	100	1.2	.0	2.71	2	9.99	2.43
7017.0	.00	61	2.5	.0	2.72	1	9.97	2.42
7018.0	.00	100	.0	.0	2.72	0	9.95	2.42
7019.0	.00	38	3.3	.0	2.73	0	9.94	2.41
7020.0	.01	29	5.9	.0	2.71	1	9.90	2.40
7021.0	.10	40	6.7	.0	2.65	0	9.86	2.37
7022.0	.01	83	4.6	.0	2.65	0	9.80	2.34
7023.0	.00	100	.7	.0	2.65	0	9.77	2.34
7024.0	.00	100	.2	.0	2.72	1	9.76	2.34
7025.0	.00	100	2.6	.0	2.78	2	9.74	2.34
7026.0	.00	100	2.5	1.4	2.71	1	9.71	2.34
7027.0	.00	82	3.1	.0	2.73	1	9.69	2.34
7028.0	.12	54	7.0	2.0	2.69	2	9.65	2.33
7029.0	6.11	41	12.7	7.9	2.65	6	9.57	2.29
7030.0	411.34	26	22.0	17.7	2.74	0	9.41	2.19
7031.0	265.71	29	21.3	7.1	2.75	0	9.19	2.02
7032.0	59.61	35	17.6	9.0	2.72	0	8.99	1.88
7033.0	1.37	57	10.5	3.4	2.70	12	8.82	1.78

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7034.0	.37	76	8.5	.2	2.72	9	8.72	1.74
7035.0	.32	73	8.3	4.2	2.72	0	8.64	1.73
7036.0	.25	63	7.9	.0	2.70	6	8.56	1.70
7037.0	.00	100	2.6	.0	2.68	9	8.50	1.69
7038.0	.00	100	.9	.2	2.71	7	8.48	1.69
7039.0	.00	100	1.3	.2	2.72	5	8.47	1.69
7040.0	.00	100	2.5	2.0	2.74	3	8.45	1.69
7041.0	.00	100	3.0	.0	2.79	3	8.42	1.69
7042.0	.00	100	3.5	1.2	2.82	0	8.39	1.69
7043.0	.00	100	3.7	2.0	2.78	2	8.36	1.69
7044.0	.00	100	3.4	3.4	2.76	0	8.32	1.69
7045.0	.00	100	1.2	.0	2.74	3	8.29	1.69
7046.0	.00	100	1.1	1.1	2.69	3	8.28	1.69
7047.0	.00	100	.0	.0	2.72	4	8.27	1.69
7048.0	.00	100	.0	.0	2.71	1	8.27	1.69
7049.0	.00	100	.0	.0	2.75	5	8.27	1.69
7050.0	.00	100	.0	.0	2.77	6	8.27	1.69
7051.0	.00	100	.7	.0	2.81	6	8.27	1.69
7052.0	.00	100	2.1	1.2	2.82	3	8.26	1.69
7053.0	.00	100	2.8	1.6	2.82	0	8.24	1.69
7054.0	.01	57	4.2	2.4	2.81	0	8.21	1.68
7055.0	.00	84	3.4	3.4	2.78	0	8.17	1.68
7056.0	.00	100	2.7	.1	2.81	3	8.14	1.67
7057.0	.00	100	2.6	.0	2.78	3	8.11	1.67
7058.0	.00	93	3.3	.3	2.78	3	8.08	1.67
7059.0	.00	100	3.0	1.3	2.77	4	8.05	1.67
7060.0	.00	100	2.9	1.2	2.73	4	8.02	1.67
7061.0	.00	100	2.8	.6	2.76	5	7.99	1.67
7062.0	.01	79	4.2	1.8	2.79	3	7.96	1.67
7063.0	.00	100	3.4	1.3	2.82	0	7.92	1.67
7064.0	.00	100	3.3	2.1	2.82	0	7.89	1.67
7065.0	.00	100	2.7	1.1	2.81	3	7.86	1.67
7066.0	.00	100	2.9	2.3	2.78	0	7.83	1.67
7067.0	.00	100	2.3	1.9	2.72	2	7.80	1.67
7068.0	.00	95	2.0	2.0	2.72	2	7.78	1.67
7069.0	.00	100	3.2	3.2	2.69	3	7.76	1.66
7070.0	.30	42	7.8	7.8	2.69	0	7.72	1.66
7071.0	45.42	23	14.7	4.7	2.81	0	7.62	1.59
7072.0	7.55	29	11.7	.0	2.84	7	7.48	1.49
7073.0	.13	61	7.1	.0	2.81	6	7.37	1.42
7074.0	.01	100	4.8	4.8	2.72	0	7.31	1.40
7075.0	.01	100	4.5	3.1	2.75	0	7.25	1.40
7076.0	.00	100	3.8	2.2	2.74	8	7.22	1.40
7077.0	.01	100	4.2	2.2	2.79	0	7.18	1.40
7078.0	.00	100	4.1	3.2	2.79	0	7.14	1.40
7079.0	.16	60	7.4	3.8	2.77	0	7.09	1.40
7080.0	.20	100	7.7	3.4	2.73	0	7.01	1.37
7081.0	.05	100	6.2	2.7	2.70	19	6.94	1.37

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7082.0	.00	100	2.9	.0	2.75	33	6.89	1.37
7083.0	.00	100	1.0	.0	2.92	33	6.86	1.37
7084.0	.00	100	.4	.0	2.83	21	6.86	1.37
7085.0	.00	100	1.1	.1	2.85	15	6.85	1.37
7086.0	.00	100	1.6	.4	2.85	9	6.84	1.37
7087.0	.00	100	2.2	.7	2.83	6	6.82	1.37
7088.0	.00	100	2.5	1.0	2.80	6	6.80	1.37
7089.0	.00	100	3.0	.0	2.83	6	6.77	1.37
7090.0	.01	100	4.2	.0	2.80	5	6.74	1.37
7091.0	.01	100	4.3	.0	2.75	6	6.69	1.37
7092.0	.00	100	2.9	.0	2.80	6	6.65	1.37
7093.0	.00	100	2.2	.0	2.83	6	6.62	1.37
7094.0	.00	100	3.0	.2	2.84	5	6.60	1.37
7095.0	.00	100	3.4	.7	2.84	1	6.57	1.37
7096.0	.00	100	2.6	.0	2.82	7	6.54	1.37
7097.0	.00	100	3.1	.7	2.81	7	6.51	1.37
7098.0	.00	100	3.0	.0	2.84	6	6.48	1.37
7099.0	.00	100	2.3	.0	2.79	5	6.45	1.37
7100.0	.00	100	2.0	.0	2.81	4	6.43	1.37
7101.0	.00	100	2.4	.8	2.81	3	6.41	1.37
7102.0	.00	100	2.3	.0	2.80	3	6.38	1.37
7103.0	.00	100	3.6	2.2	2.80	0	6.36	1.37
7104.0	.00	100	3.9	.3	2.78	5	6.32	1.37
7105.0	.00	100	4.1	.0	2.80	6	6.28	1.37
7106.0	.00	100	4.0	.0	2.77	6	6.24	1.37
7107.0	.00	100	4.0	1.0	2.73	6	6.20	1.37
7108.0	.01	100	4.2	1.6	2.69	5	6.16	1.37
7109.0	.00	100	2.4	.0	2.71	3	6.12	1.37
7110.0	.00	100	1.7	.0	2.74	3	6.10	1.37
7111.0	.02	100	5.0	3.7	2.74	0	6.07	1.37
7112.0	.57	50	9.1	.0	2.80	5	6.00	1.35
7113.0	.11	76	6.9	.0	2.74	10	5.92	1.31
7114.0	.00	100	2.7	.3	2.74	10	5.86	1.30
7115.0	.00	100	3.2	.0	2.81	4	5.83	1.30
7116.0	.00	100	2.3	.0	2.82	3	5.80	1.30
7117.0	.00	100	2.5	.0	2.80	3	5.78	1.30
7118.0	.00	100	2.9	.0	2.83	3	5.75	1.30
7119.0	.00	100	3.1	.7	2.77	3	5.72	1.30
7120.0	.00	100	2.9	2.8	2.73	3	5.69	1.30
7121.0	.00	100	3.8	3.2	2.75	0	5.66	1.30
7122.0	.00	100	3.6	2.5	2.77	1	5.62	1.30
7123.0	.00	100	3.0	3.0	2.76	0	5.59	1.30
7124.0	.00	100	2.7	.5	2.72	10	5.56	1.30
7125.0	.01	100	4.8	.0	2.76	12	5.53	1.30
7126.0	.20	64	7.6	4.2	2.79	0	5.48	1.30
7127.0	.66	44	9.0	1.7	2.81	0	5.40	1.26
7128.0	.03	61	5.6	3.5	2.82	0	5.31	1.22
7129.0	.00	100	3.0	.8	2.84	0	5.26	1.20

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7130.0	.00	100	3.6	.5	2.82	5	5.23	1.20
7131.0	.00	100	3.4	.0	2.81	4	5.20	1.20
7132.0	.00	100	3.0	.9	2.73	6	5.17	1.20
7133.0	.00	100	3.2	1.9	2.74	6	5.13	1.20
7134.0	.00	100	2.7	.9	2.78	4	5.10	1.20
7135.0	.00	100	1.9	.0	2.83	3	5.08	1.20
7136.0	.00	100	2.1	.0	2.82	3	5.06	1.20
7137.0	.00	100	2.5	.1	2.83	3	5.04	1.20
7138.0	.00	100	2.0	1.4	2.90	3	5.02	1.20
7139.0	.00	100	2.3	.3	2.88	2	4.99	1.20
7140.0	.00	100	2.4	.0	2.83	3	4.97	1.20
7141.0	.00	100	1.9	.3	2.84	4	4.95	1.20
7142.0	.00	100	2.2	.0	2.85	4	4.93	1.20
7143.0	.00	100	2.5	1.5	2.83	0	4.90	1.20
7144.0	.00	100	2.1	.3	2.84	3	4.88	1.20
7145.0	.00	100	2.5	1.3	2.87	0	4.86	1.20
7146.0	.00	100	2.5	.8	2.87	0	4.83	1.20
7147.0	.00	100	2.1	.5	2.89	4	4.81	1.20
7148.0	.00	100	2.8	1.1	2.87	0	4.79	1.20
7149.0	.00	100	2.9	.0	2.85	4	4.76	1.20
7150.0	.00	100	2.1	.7	2.82	3	4.73	1.20
7151.0	.00	100	2.3	.0	2.85	4	4.71	1.20
7152.0	.00	100	3.0	2.4	2.89	0	4.69	1.20
7153.0	.00	100	1.9	.7	2.83	4	4.66	1.20
7154.0	.00	100	1.7	.0	2.89	4	4.64	1.20
7155.0	.00	100	1.9	.0	2.86	3	4.63	1.20
7156.0	.00	100	2.6	1.2	2.83	0	4.61	1.20
7157.0	.00	100	1.7	.0	2.80	3	4.58	1.20
7158.0	.00	100	2.9	.0	2.83	3	4.56	1.20
7159.0	.01	97	4.2	.0	2.80	5	4.53	1.20
7160.0	.00	100	3.8	2.9	2.73	4	4.49	1.20
7161.0	.00	100	2.1	1.5	2.78	3	4.46	1.20
7162.0	.00	100	1.8	.5	2.84	4	4.44	1.20
7163.0	.00	100	2.9	.9	2.85	0	4.42	1.20
7164.0	.00	100	3.7	2.3	2.83	0	4.38	1.20
7165.0	.00	100	2.7	.2	2.81	4	4.35	1.20
7166.0	.00	100	2.7	.0	2.80	4	4.32	1.20
7167.0	.00	100	3.7	.0	2.78	5	4.29	1.20
7168.0	.00	100	2.9	.0	2.82	6	4.25	1.20
7169.0	.00	100	1.9	.0	2.82	5	4.23	1.20
7170.0	.00	100	1.8	.0	2.83	6	4.21	1.20
7171.0	.00	100	1.6	.0	2.83	7	4.19	1.20
7172.0	.00	100	1.3	.0	2.83	8	4.18	1.20
7173.0	.00	100	1.1	.0	2.85	8	4.17	1.20
7174.0	.00	100	2.0	1.2	2.83	3	4.15	1.20
7175.0	.00	100	2.3	.7	2.84	6	4.13	1.20
7176.0	.01	83	4.3	3.5	2.84	0	4.10	1.20
7177.0	.01	90	4.3	3.9	2.85	0	4.06	1.20

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7178.0	.00	100	3.8	2.3	2.84	0	4.02	1.19
7179.0	.00	100	2.6	.6	2.84	4	3.98	1.19
7180.0	.00	100	3.0	.0	2.81	4	3.95	1.19
7181.0	.00	100	3.7	1.5	2.82	0	3.92	1.19
7182.0	.00	100	3.5	.3	2.85	5	3.89	1.19
7183.0	.00	100	3.2	.0	2.82	5	3.86	1.19
7184.0	.00	100	2.6	.0	2.84	5	3.82	1.19
7185.0	.00	100	3.0	.0	2.85	4	3.80	1.19
7186.0	.00	100	3.3	.0	2.81	5	3.77	1.19
7187.0	.00	100	2.9	.6	2.84	5	3.73	1.19
7188.0	.00	100	3.4	1.1	2.90	4	3.71	1.19
7189.0	.01	100	4.9	.0	2.85	3	3.67	1.19
7190.0	.01	100	4.4	.0	2.86	3	3.62	1.19
7191.0	.00	100	3.4	.0	2.86	5	3.58	1.19
7192.0	.00	100	3.0	.0	2.87	3	3.54	1.19
7193.0	.00	100	3.0	.0	2.85	4	3.51	1.19
7194.0	.00	100	1.8	1.5	2.89	8	3.49	1.19
7195.0	.00	100	1.8	.0	2.82	8	3.47	1.19
7196.0	.00	100	1.8	.0	2.85	9	3.45	1.19
7197.0	.00	100	2.7	.0	2.89	8	3.43	1.19
7198.0	.00	88	3.6	2.2	2.80	0	3.40	1.19
7199.0	.00	95	3.5	3.1	2.77	0	3.36	1.19
7200.0	.00	100	3.2	3.0	2.81	0	3.33	1.19
7201.0	.00	100	2.3	.9	2.82	6	3.30	1.19
7202.0	.00	87	3.3	2.7	2.83	0	3.27	1.19
7203.0	.00	66	3.6	2.4	2.89	0	3.24	1.18
7204.0	.00	100	2.1	.0	2.87	4	3.20	1.17
7205.0	.00	100	1.8	.0	2.86	4	3.18	1.17
7206.0	.00	100	1.8	.0	2.86	3	3.17	1.17
7207.0	.00	100	1.9	.0	2.84	2	3.15	1.17
7208.0	.00	100	1.5	.0	2.83	2	3.13	1.17
7209.0	.00	100	1.4	1.4	2.90	2	3.12	1.17
7210.0	.00	100	1.5	1.0	2.88	0	3.10	1.17
7211.0	.00	100	1.5	.2	2.86	2	3.09	1.17
7212.0	.00	100	1.7	.1	2.86	2	3.07	1.17
7213.0	.00	100	1.8	1.4	2.81	2	3.06	1.17
7214.0	.00	100	2.1	1.5	2.83	0	3.04	1.17
7215.0	.00	100	2.6	2.4	2.85	0	3.02	1.17
7216.0	.00	100	2.1	1.3	2.83	0	2.99	1.17
7217.0	.00	100	1.8	1.3	2.81	1	2.97	1.17
7218.0	.00	100	1.7	.5	2.85	1	2.95	1.17
7219.0	.00	100	1.2	.0	2.86	2	2.94	1.17
7220.0	.00	100	1.6	1.1	2.81	1	2.93	1.17
7221.0	.00	100	2.0	.6	2.86	1	2.91	1.17
7222.0	.00	100	1.5	.5	2.87	2	2.89	1.17
7223.0	.00	100	2.6	.5	2.85	0	2.87	1.17
7224.0	.00	91	3.0	2.7	2.90	0	2.84	1.17
7225.0	.00	100	2.6	1.0	2.87	0	2.81	1.17

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7226.0	.00	100	2.3	1.7	2.85	0	2.79	1.17
7227.0	.00	100	1.6	1.3	2.81	3	2.77	1.17
7228.0	.00	100	1.9	1.0	2.84	2	2.75	1.17
7229.0	.00	100	1.7	.0	2.86	2	2.73	1.17
7230.0	.00	100	2.4	.2	2.85	2	2.71	1.17
7231.0	.00	100	3.0	1.9	2.84	0	2.68	1.17
7232.0	.01	71	4.2	4.0	2.81	0	2.65	1.17
7233.0	.02	46	5.0	5.0	2.81	0	2.61	1.15
7234.0	.02	44	4.9	4.4	2.81	0	2.56	1.13
7235.0	.01	46	4.4	4.4	2.78	0	2.51	1.10
7236.0	.06	34	5.6	3.3	2.82	0	2.47	1.08
7237.0	.81	24	7.6	5.0	2.90	0	2.41	1.04
7238.0	.99	24	7.9	4.3	2.81	0	2.33	.98
7239.0	.30	31	7.0	7.0	2.74	0	2.25	.92
7240.0	.11	39	6.4	4.5	2.77	0	2.18	.87
7241.0	.71	25	7.6	1.7	2.61	2	2.11	.83
7242.0	.36	25	6.8	6.5	2.83	0	2.04	.77
7243.0	.11	33	6.0	6.0	2.71	0	1.97	.73
7244.0	.01	49	4.9	4.4	2.73	0	1.91	.69
7245.0	.18	29	6.3	4.5	2.80	0	1.86	.66
7246.0	.01	46	4.6	2.5	2.83	0	1.80	.62
7247.0	.01	44	4.7	2.8	2.77	0	1.76	.59
7248.0	.05	36	5.4	2.7	2.82	0	1.71	.56
7249.0	.01	43	4.6	2.9	2.81	0	1.66	.53
7250.0	.01	49	4.3	1.3	2.83	0	1.61	.51
7251.0	.02	41	4.9	4.4	2.77	0	1.57	.48
7252.0	.04	40	5.4	3.1	2.77	0	1.51	.45
7253.0	.03	38	5.1	4.3	2.77	0	1.46	.42
7254.0	.00	45	3.9	3.9	2.75	0	1.41	.39
7255.0	.00	87	2.6	2.6	2.76	0	1.38	.38
7256.0	.00	100	1.8	1.8	2.81	0	1.36	.37
7257.0	.00	96	2.2	.7	2.83	3	1.34	.37
7258.0	.00	100	2.6	1.8	2.84	0	1.31	.37
7259.0	.00	90	3.3	1.8	2.85	0	1.28	.37
7260.0	.00	81	3.7	.9	2.84	0	1.25	.37
7261.0	.00	86	3.7	1.5	2.83	0	1.22	.37
7262.0	.00	90	3.5	2.8	2.79	0	1.18	.36
7263.0	.00	75	3.7	3.0	2.77	0	1.14	.35
7264.0	.00	100	2.4	2.4	2.73	3	1.11	.35
7265.0	.00	80	3.8	2.1	2.83	0	1.08	.34
7266.0	.00	100	3.7	1.5	2.88	0	1.04	.34
7267.0	.00	100	3.0	.0	2.63	3	1.01	.34
7268.0	.00	100	2.7	.0	2.81	3	.98	.34
7269.0	.00	100	2.5	.0	2.80	3	.95	.34
7270.0	.00	100	3.7	.0	2.63	4	.92	.34
7271.0	.22	59	7.8	7.8	2.93	0	.88	.34
7272.0	2.65	35	10.9	9.6	2.93	0	.81	.32
7273.0	2.35	41	10.8	.0	2.81	6	.70	.25

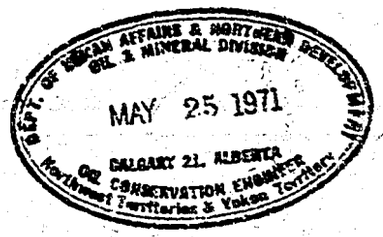
DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7274.0	.87	45	9.5	.0	2.74	8	.60	.19
7275.0	.04	72	5.9	2.1	2.70	9	.51	.15
7276.0	.00	100	3.5	1.6	2.65	5	.46	.14
7277.0	.00	100	1.7	1.7	2.68	4	.43	.14
7278.0	.00	100	.8	.8	2.73	3	.41	.14
7279.0	.00	100	.8	.8	2.80	5	.40	.14
7280.0	.00	100	1.3	1.3	2.79	3	.39	.14
7281.0	.00	100	1.4	1.4	2.77	3	.38	.14
7282.0	.00	100	.5	.5	2.74	4	.37	.14
7283.0	.00	100	.6	.5	2.80	6	.36	.14
7284.0	.00	100	.7	.0	2.86	9	.36	.14
7285.0	.00	100	1.7	1.7	2.74	0	.34	.14
7286.0	.04	85	5.8	5.6	2.61	0	.32	.14
7287.0	2.10	38	10.4	10.4	2.39	0	.24	.10
7288.0	1.79	41	10.3	10.3	2.55	0	.14	.04
7289.0	.00	100	2.6	2.6	2.74	0	.06	.00
7290.0	.03	89	5.5	5.5	2.69	0	.03	.00

$R16,T1904,1691,03/04/71

NEXT JOB
$JOB,T-1904,3000,C-2931,

TRANSMITTAL FORM

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
The Natural Resources Building
205 Ninth Avenue S. E.
Calgary 21, Alberta



FROM: The Scouting Department - Information Centre 267 - 8332

TO: Department of Indian Affairs & Northern Development Regency Building

112 - Eleventh Avenue S. E. CALGARY 21, Alberta

ATTENTION: Mr. B.H.J. Thoms

AUTHORIZED BY: (Miss) W. L. Hamilton DATE: May 21, 1971

TRANSMITTED BY: (Miss) B. Williams SHIPPED VIA: Mail

RE: CPOG ET AL LABICHE F-08

60° 38' 25.685" N. 124° 31' 13.211" W.

MATERIAL AS FOLLOWS:

Three (3) copies of the Application to Suspend.

Please return signed copy.

Please acknowledge receipt of the above by signing and returning one copy of this form to Central-Del Rio Oils Limited - Canadian Pacific Oil and Gas Limited, at the above address.

SIGNED: DATE:

Please use reverse side of sheet for remarks.

TRANSMITTAL FORM

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
The Natural Resources Building
205 Ninth Avenue S. E.
Calgary 21, Alberta

FROM: The Scouting Department - Information Centre 267 - 8353

TO: Department of Indian Affairs & Northern Development Regency Building

112 - Eleventh Avenue S. E. CALGARY 21, Alberta

ATTENTION: Mr. B.H.J. Thoms

AUTHORIZED BY: (Miss) W. L. Hamilton DATE: May 21, 1971

TRANSMITTED BY: (Miss) B. Williams SHIPPED VIA: Mail

RE: CPOG ET AL LABICHE F-08

60° 38' 25.685" N. 124° 31' 13.211" W.

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Three (3) copies of the Application to Suspend.

Please return signed copy.

Please acknowledge receipt of the above by signing and returning one copy of this form to Central-Del Rio Oils Limited - Canadian Pacific Oil and Gas Limited, at the above address.

SIGNED: DATE:

Please use reverse side of sheet for remarks.

DATE ... 19...

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE ... 19...

Rig No. 2 Page No. ... LOCATION ...

Rig No. 2 Report No. 2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS														
No. 1	Pressure				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
	Model	S.P.M.												
		Liner Size												
No. 2	Pressure				Casing Record	Surface								
	Model	S.P.M.				Prod.								
		Liner Size												

Wt. ... F.C. ... pH. ... Solids ... Cement ...

Stands ... Singles ... D. Collars ... Other Ft. ... C.B. Ft. ... Subs. Ft. ... Ft. Down On Kelly ... TOTAL

Time	Start	Stop	Interval
REMARKS			
End of [illegible]	7[illegible]	60	1
LOAD out Drill			
Pipe For Rig #6			
Remain - 20 Joints			
To be unloaded on			
Rig #6 Racks @			
Edmonton			

With Pipe ... Without Pipe ... Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS														
No. 1	Pressure				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
	Model	S.P.M.												
		Liner Size												
No. 2	Pressure				Casing Record	Surface								
	Model	S.P.M.				Prod.								
		Liner Size												

Wt. ... F.C. ... pH. ... Solids ... Cement ...

Stands ... Singles ... D. Collars ... Other Ft. ... C.B. Ft. ... Subs. Ft. ... Ft. Down on Kelly ... TOTAL

Time	Start	Stop	Interval
REMARKS			
[illegible] out of Rig	8[illegible]	12[illegible]	4
Rig Down and			
Load out Rig			

With Pipe ... Without Pipe ... Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS														
No. 1	Pressure				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
	Model	S.P.M.												
		Liner Size												
No. 2	Pressure				Water Truck Hours									
	Model	S.P.M.												
		Liner Size												

Wt. ... F.C. ... pH. ... Solids ... Desilter Hours ... Desander Hours ...

Stands ... Singles ... D. Collars ... Other Ft. ... C.B. Ft. ... Subs. Ft. ... Ft. Down on Kelly ... TOTAL

Time	Start	Stop	Interval
REMARKS			
March 22/71			
Load of [illegible]	[illegible]00		

With Pipe ... Without Pipe ... Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller [illegible]	7
Derrick [illegible]	7
Motor [illegible]	7
Floor [illegible]	4
Floo [illegible]	7
[illegible]	4

Accidents ...
Outside Temp. ...
Weather Conditions ...
Road Conditions ...

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller [illegible]	4
Derrick [illegible]	4
Motor [illegible]	4
Floor [illegible]	4
Floor	

Accidents ...
Outside Temp. ...
Weather Conditions ...
Road Conditions ...

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller [illegible]	8
Derrick [illegible]	8
Motor [illegible]	8
Floor [illegible]	
Floor [illegible]	10
[illegible]	10

Accidents ...
Outside Temp. ...
Weather Conditions ...
Road Conditions ...

Totco Ring on Bit No. ... D.P. Calipered Date ... Results ... From Pipe Rack ... Total Contractor Time ... Hrs. Toolpusher ... Toolpusher ...

B.O.P. Test-Operated ... Time ... Results ... Total Company Time ... Hrs. Approved by ... Approved by ...

DATE March 2 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 20 19 71

Rig No. 10 Page No. 69 LOCATION CPOG 1A-BUCHE F-08

Rig No. 10 Report No. 69

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS 1: 8 2: 3:

Light Plant: 0

BOILER HRS. 9

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.
		Liner Size	
No. 2	Model	Pressure	S.P.M.
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
TESTING W/ PORTA TEST.	12 00	4 30	4½
Rig up Baker Truck and	4 30		
Run plug		6 00	1½
Lay Derrick Down & Rig out	6 00		
Same		8 00	2
			8

With Pipe Without Pipe Standby

Time out Rig	8 00	4 00	8

With Pipe Without Pipe Standby

Shut Down Boilers @ 9 00 pm March 20/71

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS 1: 4 2: 3:

Light Plant: 6

BOILER HRS.

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.
		Liner Size	
No. 2	Model	Pressure	S.P.M.
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface Shut Down Floor Motors @ 12 00 March 20/71 / Prod. March 20/71

Cement Motors on Floor DRAINED

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

Taking out Rig AND loading out Same

8 00	9 00	13

With Pipe Without Pipe Standby

3000 GAL OF FUEL left in Tanks on location to be hauled to CPOG by Tower

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS 1: 2: 3:

Light Plant: 9

BOILER HRS.

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.
		Liner Size	
No. 2	Model	Pressure	S.P.M.
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours:

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

Tour — Midnight - 7 a.m.

Specify actual hours worked.	Hrs.
Driller E W Lloyd	8
Derrick D Chabot	8
Motor D Stucke	8
Floor D Tulpinski	8
Floor P Scott-Thomas	8

Accidents N.I.L

Outside Temp. 0

Weather Conditions windy

Road Conditions poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J. P. Kizzle	8
Derrick W Simmons	8
Motor A Kuns	8 13
Floor J. Gilbert	8
Floor A Mulvey	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T Tennock	13
Derrick N Acuda	13
Motor C. Dyck	13
Floor W. Wyatt-Smith	13
Floor R Flupchuk	13

Accidents N/I

Outside Temp. 10

Weather Conditions Cloudy

Road Conditions —

Toto Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rock ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE March 19 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

Rig No. 10 Page No. 67 LOCATION C.P.O.G. Lacombe Test

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 | 3 | Light Plant 8 | BOILER HRS. 5

Oil Added

PUMPS			
No. 1	Model	Pressure	
		M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly | TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 | 3 | Light Plant 8 | BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 | 3 | Light Plant 8 | BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

Water Truck Hours: G Zeman 15

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Time Stop	Time Interval
Testing w/ Potts Test	12	7	6

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Time Stop	Time Interval
Testing w/ Potts Test			
Rig Released 1201 HR March 19/71			
H Canfield			
2500 gals of Fuel			
To be Billed To			
Tomkins Contracting			

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Time Stop	Time Interval
Testing w/ Potts Test	4:00	12:00	8

With Pipe | Without Pipe | Standby

DATE March 19 19 71

Rig No. 10 Report No. 67

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller C W Lloyd	7
Derrick D. Chabot	12
Motor D Stelmach	12
Floor L. Tilapaute	8
Floor R Schotzhauer	8

Accidents Nil

Outside Temp.

Weather Conditions Snow

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J Kosma	8
Derrick J. Simmons	8
Motor D Kunz	8
Floor A Gilbert	8
Floor G Wuthey	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Zeman	8
Derrick W. Ouvala	8
Motor C Davis	8
Floor W Hyenpaew	8
Floor K Shupchuk	8

Accidents Nil

Outside Temp. 10°

Weather Conditions Snow

Road Conditions Poor

Toco Ring or Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE [illegible] 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 66 LOCATION C-206 Indian 28

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE [illegible] 19 71

Rig No. [illegible] Report No. 66

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives — At Surveys Degree

MOTOR HOURS: 1 7 / 2 / 3 — Oil Added

Light Plant 9 — BOILER HRS. 9

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1/2								

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing up Pipe Test	12:00	1:00	

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives — At Surveys Degree

MOTOR HOURS: 1 8 / 2 / 3 — Oil Added

Light Plant 8 — BOILER HRS. 8

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing up Pipe Test	2	4	

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives — At Surveys Degree

MOTOR HOURS: 1 8 / 2 / 3 — Oil Added

Light Plant 8 — BOILER HRS. 8

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: G Zeuner 1 hr. 05

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing up Pipe Test	4:00	12:00	

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller G W Lloyd	8
Derrick D Chaput	8
Motor A Struble	8
Floor T Ilanski	8
Floor S Schofhauer	8

Accidents

Outside Temp. 0

Weather Conditions [illegible]

Road Conditions Good

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	

Accidents

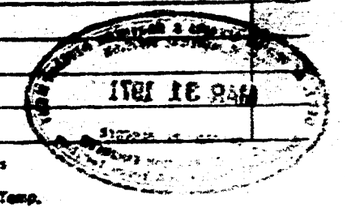
Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	



Accidents

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 17 1971

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 17 1971

Rig No. 10 Page No. 65 LOCATION C.P.O.G. 33-26-HC-F 08

Rig No. 10 Report No. 65

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7300									

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 B	
VISCOSITY							2 B	
GEL							3	
							Light Plant 6	
							BOILER HRS. 8	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

W.L. F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing L/V Pipe Rams	12 00	9 00	8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller G W Lloyd	8
Derrick D Gilbert	8
Motor D Stevens	8
Floor D Tulinski	8
Floor R S Hoffman	8

Accidents NONE

Outside Temp.

Weather Conditions

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 B	
VISCOSITY							2 B	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

W.L. F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing Upper Pipe Rams	9 00	4 00	8

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J Keown	8
Derrick L Symonds	8
Motor H Kane	8
Floor C Gilbert	8
Floor G Whitelaw	8

Accidents NIL

Outside Temp.

Weather Conditions

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT					Choke Manifold		1 B	
VISCOSITY					Pipe Rams & Valves		2 B	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: D Tanner 8 hrs

Desilter Hours

W.L. F.C. pH. Solids Desander Hours

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Testing Upper Pipe Test	4 00 pm	12 00 pm	8

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T Tanner	8
Derrick W Symonds	8
Motor C Davis	8
Floor W Whitehead	8
Floor J Fitzpatrick	8

Accidents N.I

Outside Temp.

Weather Conditions CLEAR

Road Conditions

Toolpusher

Approved by

Toolpusher

Approved by

Toteo Ring on Bit No. D.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs.

B.O.P. Test-Operated Time Results Total Company Time Hrs.

DATE March 16 1971.

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 16 1971

Rig No. #10 Page No. 64 LOCATION C.P.D.G. Area 12 - K-28

Rig No. #10 Report No. 64

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS	Oil Added
1	9
2	9
3	
Light Plant	A
BOILER HRS.	5

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

W.I. F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Time Stop	Time Interval
Wait on Daylight	12 00		
To Guard		7 00	7
Safety Mtg	7 00	8 00	1
			8 Hrs
Lay 4" K-Factor			
6361 - 6461			
6415 - 6451			
6431 - 6432			
6432 - 6444			
4 SHOTS / FT. 4" SCC HYPER JET			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

W.I. F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Time Stop	Time Interval
Rig up Both Testers Testing Well	8 00	4 00	8

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: 5 Zenner 120.00

Desilter Hours

Desander Hours

W.I. F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Time Stop	Time Interval
Production Testing Well Both Testers	4 00	12 00	8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller G. W. Hogg	8
Derrick D. Chilliot	8
Motor D. Struble	8
Floor E. Tolbert	8
Floor R. Schultz	8

Accidents None

Outside Temp. 0 - 5°

Weather Conditions Winds

Road Conditions Icy

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Floyd Kissick	8
Derrick L. Tomlinson	8
Motor K. Kilmer	8
Floor Colbert	8
Floor G. Murray	8

Accidents NIL

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W. Arnold	8
Motor W. Wyatt	8
Floor D. Lucas	8
Floor R. Fitzpatrick	8

Accidents N. I

Outside Temp. 5°

Weather Conditions Clear

Road Conditions Poor

Toto Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE March 15 1971

NABORS DRILLING LIMITED

Rig No. #10 Page No. 64 , LOCATION CPOG Kaybob - F-28

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 15 1971

Rig No. #10 Report No. 63

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TOP MILES	TOTAL MILES	Slip	Feet Cr	Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size										

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
TFD in well Tubing	1200		
Strap, Tubing out Collars,			
Wash Hard Bridge Sand		600	6
Spacing out Tubing	600	800	2
			8 Hrs

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller Geo. Lloyd	8
Derrick D. Chuart	8
Motor D. Struble	8
Floor T. Tubicki	8
Floor P. Schlotzhauer	8

Accidents N.C

Outside Temp. -20

Weather Conditions Light Snow

Road Conditions Poor

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Stop	Interval
Rod in w/ Bit + Liner	800		
Test Mud Pump + Surface Piping		1000	2
pressure up Tubing to 1800 PSI	1800		
to 3500 PSI		1100	1
Pressure Test =	1100		
bleed down Tubing		1130	2½
Pick up + make up	1330		
swivel Head		1430	2
pressured up to 3000 PSI	1430		
		1500	½

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller A. Kiefer	8
Derrick J. Simmons	8
Motor R. Ellis	8
Floor D. Gilbert	8
Floor G. Wright	8

Accidents N.C

Outside Temp. 30+

Weather Conditions Cloudy

Road Conditions Poor

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Stop	Interval
Pressure up on Tubing	400		
Tubing and Well Head			
to 3000 PSI Wound			
Nut Valve		530	1½
Rig up wire Line Truck	530		
To Retrieve F Nipple Unvalve			
To Get Same		630	3
Rig up and Swab Tubing	830		
To 2193		1630	2
Rig up wire Line To	1030		
Pull F Nipple		1100	½
Run in Strip cut w/ F. Nipple	1100	1200	1

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Zenuk	8
Derrick N. Arnold	8
Motor W. Wyerman	8
Floor D. Lawson	8
Floor R. Ellwich	8

Accidents N.I

Outside Temp. -

Weather Conditions Clear

Road Conditions Poor

With Pipe / Without Pipe / Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TOP MILES	TOTAL MILES	Slip	Feet Cr	Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size										

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TOP MILES	TOTAL MILES	Slip	Feet Cr	Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size										

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

Toco Ring on Bit No. _____ D.P. Caliphered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE ... 19..

NABORS DRILLING LIMITED

Rig No. 10 Page No. 62 LOCATION C-20-G ...

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE ... 19..

Rig No. 10 Report No. 62

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 5 ; 2 5 ; 3 —

Light Plant —

BOILER HRS. 5

Oil Added —

Stands —

Singles —

D. Collars —

Other Ft. —

C.B. Ft. —

Subs. Ft. —

Ft. Down On Kelly —

TOTAL —

PUMPS			
No. 1	Model	Pressure	—
		S.P.M.	—
		Liner Size	—
No. 2	Model	Pressure	—
		S.P.M.	—
		Liner Size	—

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface —; Prod. —

Cement —

W.L. — F.C. — pH. — Solids —

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 8 ; 2 8 ; 3 —

Light Plant 8

BOILER HRS. 8

Oil Added —

Stands —

Singles —

D. Collars —

Other Ft. —

C.B. Ft. —

Subs. Ft. —

Ft. Down on Kelly —

TOTAL —

PUMPS			
No. 1	Model	Pressure	—
		S.P.M.	—
		Liner Size	—
No. 2	Model	Pressure	—
		S.P.M.	—
		Liner Size	—

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface —; Prod. —

Cement —

W.L. — F.C. — pH. — Solids —

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls
		TD									

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 8 ; 2 8 ; 3 —

Light Plant 8

BOILER HRS. 8

Oil Added —

Stands —

Singles —

D. Collars —

Other Ft. —

C.B. Ft. —

Subs. Ft. —

Ft. Down on Kelly —

TOTAL 7300

PUMPS			
No. 1	Model	Pressure	—
		S.P.M.	—
		Liner Size	—
No. 2	Model	Pressure	—
		S.P.M.	—
		Liner Size	—

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours 6 8000

Desilter Hours J. W. HENDRICKS $70.00

Desander Hours —

W.L. — F.C. — pH. — Solids —

REMARKS	Time Start	Time Stop	Time Interval
Rig up [illegible]	1200		
[illegible]		620	6½
[illegible]	620		
[illegible]		200	1½

With Pipe — Without Pipe — Standby

Repair leaks	800	900	1
Pressure up to 3000 PSI	900	915	½
Rig up Schlumberger	915	930	¼
Perforate	930	1130	2
Run in Packer w/ perforating [illegible]	1130	[illegible]	[illegible]
Tbg out Schlumberger	200	300	½
Rig up to Run Tubing	330	230	½
Run in w/ Tubing	330	400	½

With Pipe — Without Pipe — Standby

Tbg in w/ Tubing	400		
Breaking EVERY JT			
Work w/ gas & make			
up Sand & STRAP			
Tubing		1000	8

With Pipe — Without Pipe — Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller C. W. [illegible]	8
Derrick [illegible]	8
Motor [illegible]	8
Floor [illegible]	8
Floor [illegible]	8

Accidents —

Outside Temp. 10 –

Weather Conditions CLEAR

Road Conditions [illegible]

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller [illegible]	8
Derrick W. Turnbull	8
Motor M. Kraus	8
Floor D. Gilbert	8
Floor G. Mackay	8

Accidents —

Outside Temp. 30 +

Weather Conditions [illegible]

Road Conditions [illegible]

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Leach	8
Derrick N. Amaba	8
Motor Wimpey Hopkins	8
Floor D. Loewen	8
Floor R. Fijachuk	8

Accidents Nil

Outside Temp. 5+

Weather Conditions CLEAR

Road Conditions [illegible]

Toteo Ring on Bit No. ... D.P. Colipered Date ... Results ... From Pipe Rack ... Total Contractor Time ... Hrs. Toolpusher [illegible] Tool [illegible]

B.O.P. Test-Operated ... Time ... Results ... Total Company Time ... Hrs. Approved by ... Approved by [illegible]

DATE March 13 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 61 LOCATION C-C-6 La-Glace F-68

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
	TD	TD							3/4 Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.S. Ft. | Subs. Ft. | Ft. Down On Kelly | TOTAL

WORK RECORD

NOTE: Do Not Record Payroll Information Here

REMARKS	Time Start	Stop	Interval
Swaging	12:00	8:00	8

With Pipe | Without Pipe | Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
									Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.S. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Stop	Interval
Swaging	9:00	2:30	5½
Lay Down Swaging Tools	2:30	3:00	½
Lay Down 20 singles 2 7/8 out of Derrick	2:00		
P/U Tubing		4:00	1

With Pipe | Without Pipe | Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
									Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	Pressure	
		S.P.M.	
		Liner Size	
No. 2	Model	Pressure	
		S.P.M.	
		Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: 6 hrs @ 100.00

Desilter Hours: J.B. HENDRICKS $90.00

Desander Hours

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.S. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Stop	Interval
Tripout of Tubing	4:00	5:00	2 1/2
Ream Pickup	6:00	7:00	1
Rig Loggers Tools	7:00		
up Schlumberger		11:00	4 1/2
Tour out Log Truck	11:00	12:00	1 1/2

With Pipe | Without Pipe | Standby

DATE March 13 1971

Rig No. 10 Report No. 61

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Evans	8
Derrick W. Quigley	8
Motor W. Heyerman	8
Floor D. Lemieux	8
Floor R. Filipchuk	8

Accidents Nil

Outside Temp. 0

Weather Conditions snow

Road Conditions Packed

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G.W. Mayo	8
Derrick D. Chase	8
Motor G. Sonnie	8
Floor	8
Floor D. Filipchuk	8
P. Schlottmann	

Accidents Nil

Outside Temp. 28-

Weather Conditions Overcast

Road Conditions Good

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Edward Kassel	8
Derrick G. Simmons	8
Motor P. Lewis	8
Floor Gilbert	8
Floor G. Mackey	8

Accidents Nil

Outside Temp. 7° C

Weather Conditions Cloudy

Road Conditions Good

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

Toolpusher _____

Approved by _____

DATE MARCH 12 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 12 19 71

Rig No. 12 Page No. 6 LOCATION C.G.G. LaBiche Fld

Rig No. 12 Report No. 6

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
		7:00 AM							396 Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS																
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size									

Casing Record: Surface — Prod. — Cement

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT					5 gals surfactant		1 4	
VISCOSITY							2 4	
GEL							3	
							Light Plant 4	
							BOILER HRS. 4	

PUMPS																
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size									

Casing Record: Surface — Prod. — Cement

F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WAT Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT					1 pail INHIBITOR		1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS																
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Model	Pressure	S.P.M.	Liner Size									

Water Truck Hours

Desilter Hours J.N. HENDRICKS 7000 — $7000.00

Desander Hours 6 2

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
Rig up To swab	12:00	12:30	1/2
Swabbing	12:30	8:00	6 1/2
Pull Packer lose To	7:00		
Pressure up Tubing		8:00	1
			7 hrs

With Pipe — Without Pipe — Standby

REMARKS	Time Start	Stop	Interval
PRESSURE TEST TUBING	4:00	7:30	1 1/2
Pull out of Tubing Stop	7:30		
Due To another Rods Washing up		2:30	5
Break up Testing Tool	2:30		
Testing Swab			1
Hunting up Packer	7:30	4:00	1/2

With Pipe — Without Pipe — Standby

REMARKS	Time Start	Stop	Interval
Trip in w/ Packer	4:00	6:30	2 1/2
Set Packer	6:30		
Pick up To Swab		7:30	1
Swabbing	7:30	12:00	4 1/2

With Pipe — Without Pipe — Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Zenca	8 12
Derrick M. Amalia	8
Motor W. Wyerman	8
Floor D. Lawson	8
Floor R. Filipchuk	8

Accidents Nil

Outside Temp. 10°

Weather Conditions Clear

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G.W. Lloyd	8
Derrick D. Charest	8
Motor D. Steinke	8
Floor D. Tutjasic	8
Floor P. Courtemanche	8

Accidents None

Outside Temp. 10°

Weather Conditions Clear

Road Conditions Poor

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Lloyd Kinzie	8
Derrick W. Simmons	8
Motor J. Kyne	8
Floor E. Gilbert	8
Floor G. Murray	8

Accidents Nil

Outside Temp. 0

Weather Conditions Cold / Snowing

Road Conditions Good

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

Toolpusher _____

Approved by _____

DATE [illegible] 19[illegible]

NABORS DRILLING LIMITED

Rig No. [illegible] Page No. [illegible] LOCATION [illegible]

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE [illegible] 11 19[illegible]

Rig No. [illegible] Report No. [illegible]

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure												
		S.P.M.												
		Liner Size												
No. 2		Pressure												
	Model	S.P.M.												
		Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement:

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL	Next Slip

REMARKS	Time Start	Time Stop	Time Interval
Rig up To Swab	17[illegible]	17[illegible]	1/2
Swab Line Parted	[illegible]		
P/U & Std. Recover Sand	1[illegible]		
Line Tag at 42			
Recover Swab bbl Stock		[illegible]	4½
Trip in	[illegible]	7[illegible]	2
Rig up To Swab	7[illegible]	8[illegible]	1
			8 Hrs

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T [illegible]	12
Derrick W Swaling	8
Motor [illegible]	8
Floor D Loewen	8
Floor R Filipchuk	8

Accidents Nil

Outside Temp. 10°

Weather Conditions Clear

Road Conditions Bad

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 6	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure												
		S.P.M.												
		Liner Size												
No. 2		Pressure												
	Model	S.P.M.												
		Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement:

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL	Next Slip

REMARKS	Time Start	Time Stop	Time Interval
Finish Rigging up To Swab	4[illegible]	[illegible]	1/2
Swabbing	[illegible]	12[illegible]	8½
Lay Down Swabbing Tools	12[illegible]	12[illegible]	½
Wait on Line Cutter	12[illegible]	1[illegible]	1½
Cut Line & Rehead on Drum, Pull To Swab.	1[illegible]	[illegible]	2½
			8

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G W Lloyd	12
Derrick D Chabot	4
Motor D Struble	8
Floor D Tulinski	8
Floor P Schlechter	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS														
No. 1	Model	Pressure												
		S.P.M												
		Liner Size												
No. 2		Pressure												
	Model	S.P.M.												
		Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: [illegible]

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands	Singles	D. Collars	Other Fr.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL	Next Slip

REMARKS	Time Start	Time Stop	Time Interval
Swabbing	4[illegible]	7[illegible]	3¼
Line Swabbed In Down Swabbing	7[illegible]		
Tools		7[illegible]	½
Tripping Tubing	7[illegible]	9[illegible]	1½
RETRIEVE SWAB BAR	9[illegible]	9[illegible]	½
Trip in	9[illegible]	11[illegible]	1 3/4
Rig up To Swab	11[illegible]	17[illegible]	3½
			8 hrs

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller	
Derrick W Swaweese	8
Motor [illegible]	8
Floor G. Gilbert	8
Floor G M. Ray	8

Accidents Nil

Outside Temp. 5°

Weather Conditions Clear

Road Conditions Icy

Toolco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 10 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 58 LOCATION C.H.O.G. La Biche F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 10 19 71

Rig No. 10 Report No. 58

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	TD 7390										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 9; 3 —; Light Plant — 8; BOILER HRS. — 7

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.S. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant — 8; BOILER HRS. — 8

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D: / Oil / C.S. Pt. / Subs. Pt. / Ft. Down on Kelly / TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant — 8; BOILER HRS. — 8

Oil Added

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Water Truck Hours G. ZENNER 10.00

Desilter Hours J.M. HENDRICKS 10.00

Desander Hours

Stands / Singles / D. Collars / Other Ft. / C.S. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Time Stop	Time Interval
Preparing & lay down 12	12[00]		
T.I.S.		7[00]	2
Make up DST # 7	7[00]		
R.U. up Power Tongs		2[45]	3/4
Trip in Stds	2[45]	5[15]	2
Head up & Test	5[45]	6[15]	1/2
Testing	6[15]	8.00	1 3/4
Perforated: 6724 - 6777			
6717 - 6733			
W/ 4 Shots/ft, w/ 50' 4" Hyper Jet Gun.			

With Pipe — Without Pipe — Standby

Testing	8[00]	11[30]	3½
Pull Packer Loose & Trip	11[30]		
Out w/ Jet Tubing		3[00]	3½
Shut-Down Testing	3[00]		
Test Recorders		4[00]	1
DST #7 - 6777 - 6772 - M.U. Test Tool			6
[illegible]			
Rig down Test Tool			
BFT TST 60 IHP 120 FST 90			
IOFP 1330 ISIP 1450	TEP 1410		
FHP 1330 BSIP 1450	FHP 1350		

With Pipe — Without Pipe — Standby

Rig down Test Tool	1[00]	5[15]	1½
Rig up Schlumberger	5[15]		
Run Run Gage Ring and		6[15]	1
Basket			
Rig out Schlumberger	6[15]	7[15]	1
Pick up Packer	7[15]	9[45]	2½
TR in w/ Packer	9[45]	10[15]	2½
Rig up To Swab	10[15]	11[30]	1 1/4
Formation water			
Measure into Tbng			

With Pipe — Without Pipe — Standby

Accidents NIL

Outside Temp. +15

Weather Conditions Clear

Road Conditions Good

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Tower	8
Derrick N. Amalia	8
Motor [illegible]	8
Floor W. Toews	8
Floor R. Eisenhauer	8

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G.W. Lloyd	12
Derrick D. Chabot	8
Motor D. Scrubler	8
Floor D. Tulinski	8
Floor R. Schnitzhaier	6

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller	
Derrick W. Summers	8
Motor A. Hawe	8
Floor G. Gilbert	8
Floor G. Mackay	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Toteo Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 9 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 9 19 71

Rig No. 16 Page No. 57 LOCATION C.P.C.G. La-Biche F-08

Rig No. 16 Report No. 57

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 [illegible] 2 [illegible] 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.S. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL / Nest Slip

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 [illegible] 2 [illegible] 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.S. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
T.D	7300										

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: 1 BIT SUBSTITUTOR

At Surveys Degree

MOTOR HOURS: 1 8 2 8 3

Oil Added

Light Plant 8 8

BOILER HRS. 8

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

Water Truck Hours J.N. HENDRICKS $30.00

Desilter Hours G. ZENNER $50.00

Desander Hours

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.S. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL / Nest Slip

REMARKS	Time Start	Time Stop	Interval
RIG UP TO PERFORATE	12[illegible]		
PERFORATING		12 30	1/2
PULL OUT LAY DOWN TOOL	12 30	1 15	3/4
MAKE UP D.S.T. #6	1 15	2 00	3/4
TRIP IN SLOW & STRAP	2		
TUBING		2 00	6
16 FOOTERS 7270 - 7274			
7209 - 7223			
7169 - 7210			
6784 - 6988 - 4 HOLES 1/2 inch			
R/C [illegible]			

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Time Stop	Interval
HOOK UP D.S.T. #6	2 00	2 15	1/4
TESTING	2 15	1 15	4
PULL PACKER LOOSE AND	2 15		
TAKE OUT OF TUBING		11 00	3/4
D.S.T. #6 - 6784 - 7274 - M.D. REV. CIRC.			9
[illegible] [illegible] [illegible] [illegible]			
[illegible] [illegible] [illegible] [illegible]			
[illegible] [illegible] [illegible] [illegible]			
[illegible] [illegible] [illegible] [illegible]			
[illegible] [illegible] [illegible] [illegible]			
[illegible] [illegible] [illegible] [illegible]			

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Time Stop	Interval
TRIP OUT OF TUBING	4 00	5 45	1 3/4
BREAK DOWN TESTING TOOL	5		
RETRIEVE RECORDERS & SAMPLE			
TOOL		7 00	1 1/4
RIG UP SCHLUMBERGER	7 00		
& RUN IN W/ BRIDGE PLUG		9 30	2 1/2
RUN HYDROMITE PLUG	9 30	11 00	1 1/2
MAKE UP PERFORATING GUN			
TESTS		12 00	1

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W.E. MUIR	8
Motor C. ZAYA	8
Floor D. LAWLEW	8
Floor R. ESTRADA FILIPPONI	8

620 - 885 - 376

Accidents NIL

Outside Temp. 12°

Weather Conditions CLEAR

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller C.W. LLOYD	12
Derrick J. CHABOT	8
Motor D. PEEPLE	8
Floor D. TURCOTTE	8
Floor P. SCHLUTTENHOFER	4

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Zenner	4
Derrick W. SAUNDERS	8
Motor A. KAUS	8
Floor G. GILBERT	8
Floor G. MCGARY	8

Accidents NIL

Outside Temp. 25°

Weather Conditions CLEAR

Road Conditions POOR

Toteo Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE March 8 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 8 19 71

Rig No. 16 Page No. 5A LOCATION C.I.T.C. Laroche F-08

Rig No. 16 Report No. 56

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degrees

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant 4 | BOILER HRS. 8 — Oil Added

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down On Kelly

TOTAL 7300

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degrees

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant 8 | BOILER HRS. 8 — Oil Added

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL 7300

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1.7	1300										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 a.m.	p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: APRIL THINNER

At Surveys Deg.

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant | BOILER HRS. 4 — Oil Added

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL 7300

PUMPS		
No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: 6 7000

Desilter Hours: J.N. HENDRICKS $80.00

Desander Hours

W.L. F.C. pH. Solids

REMARKS	Time Start	Stop	Interval
Trip out of Packer #5	12:00	3:00	3
Head up T. Test &	3:00		
Tour-Floor Line		4:00	1
Testing DST #5	4:00	8:00	4
			8 HRS
DATE - MAR - 7/71 -			
[illegible]			
F.S - DEL CO - WATER - [illegible]			
Rig 4376 [illegible]			
PF 350 TRIP [illegible]		7:30	
[illegible]		[illegible]	

With Pipe / Without Pipe / Standby

P.U. PACKER LINE	4:00		
AND TAILED OUT TOOL			
TOOL OK		1:45	3/4
CLEAR FLOOR TESTING TOOL	15		
RECOVER RECORDERS			
SERVICE TOOL AND STAND IN			
DERRICK		3:45	2
RIGUP SCHLUMBERGER TO	45		
RUN BHP		4:30	1/2
			8

With Pipe / Without Pipe / Standby

Service Unit W/ Tong Dies	11:00		
Tong Dies Out of Derrick			
Set Tong Dies in Derrick			
Tong Line Out of Derrick			
Rig Up to Run Perforating			
Run YNAMITE Plug	8:00	9:00	1
Waiting on Perforating	9:00		
Tools		11:00	2
Run in to Perforate	11:00	12:00	1

With Pipe / Without Pipe / Standby

Tour — 8 a.m. - 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Zeiner	12
Derrick W. Hilar	8
Motor C. Dana	8
Floor D. Newman	8
Floor SCHLUMBERGER	8

Accidents Nil

Outside Temp. 5°

Weather Conditions windy & Clear

Road Conditions Fair

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller [illegible] LEGGE	12
Derrick A. CHAROT	8
Motor D. STRUBLE	8
Floor D. TWINSS	8
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller E. Zeiner	4
Derrick [illegible] Simmons	7
Motor A. Kaus	8
Floor [illegible] Gilbert	7
Floor [illegible]	7

Accidents Nil

Outside Temp. 15°

Weather Conditions Clear

Road Conditions Fair

Toteo Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE March 7 19 72

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 7 19 72

Rig No. 10 Page No. 66 LOCATION C-100 LA BICHE F-08

Rig No. 10 Report No. 66

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
									2" 3 Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
MUD							1 8	
WEIGHT							2 8	
VISCOSITY							3	
GEL							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Model	Pressure	S.P.M.	Liner Size	No. 2	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod. / Cement

W.L. F.C. pH. Solids

Stands 7300 | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly | TOTAL 7300

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
									Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
MUD							1 8	
WEIGHT							2 8	
VISCOSITY							3	
GEL							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Model	Pressure	S.P.M.	Liner Size	No. 2	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod. / Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
									Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
MUD							1 8	
WEIGHT							2 8	
VISCOSITY							3	
GEL							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Model	Pressure	S.P.M.	Liner Size	No. 2	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours J.H. HENDRICKS $70.00

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Stop	Interval
Trip out Tools	12:00	2:00	2
Rig up To Logs	2:00	2:30	1/2
Logging	2:30	8:00	5 1/2
			7 hrs
Gamma - Neutron FDC 7125'-6300'			
Cement Bond Log - V.D.			
Run By Schlumberger			
Down and secure Loggers		Over	
ON Rig Floor Tools POOH CDR 4½ Cut			

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
Logging w/ Schlumberger	7:00	9:15	1 1/4
Lay Down Logging Tools	9:15		
Rig up To Perforate		12:00	2 3/4
Run in Perforating Tool (Misrun)	12:00		
Pull out + Secure		3:45	3 3/4
Schlumberger Lines	3:45	4:00	1/4
Perforate Interval			
7184-7188			8
7125-7129			
7110-7114 - 4 SHOTS/FT			
WITH 5" C.G. 4" HYPER JET GUN.			

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
Perforating Misrun	4:00		
Pull out Perforating Tools		5:00	1
Secure Tools	5:00		
Perforating Tools		6:00	1
Perforate w/ Schlumberger	6:00	8:00	2
Run out Schlumberger	8:00	8:30	1/2
Make up Packer	8:30	10:30	2
Rig up Power Tongs	10:30	11:00	1/2
TRIP in Slow	11:00	12:00	1
Tubing			Zero

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T Young	12
Derrick W. Sanders	8
Motor C Gauthier	10
Floor D. Lacoupe	10
Floor PSCHLITZHAUER	8

Accident NIL

Outside Temp. 9°

Weather Conditions Cloudy

Road Conditions Good

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G.W. Lloyd	12
Derrick D. Chabot	8
Motor D. Strube	8
Floor A. Tulloch	8
Floor	

Accidents NONE

Outside Temp. 0

Weather Conditions

Road Conditions Good

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller	
Derrick W. Summers	8
Motor AL HICKS	8
Floor G. Gauthier	8
Floor A. Mundy	8

Accidents N.I

Outside Temp. 0

Weather Conditions Windy & Cloudy

Road Conditions Fair

Toolpusher

Approved by

Toto Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

DATE March 6 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 6 19 71

Rig No. 10 Page No. 54 LOCATION Cecil Lyssenko F-56

Rig No. 10 Report No. 54

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	TD	7300									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Oil Added
1 8	
2 8	
3	
Light Plant 8	
BOILER HRS. 8	

PUMPS		
No. 1	Model	Pressure
		S.P.M.
		Liner Size
No. 2	Model	Pressure
		S.P.M.
		Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

Cement

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
Nipple up	12:00		
Finish Take Pictures off Fill Tank with water & Eat		1:30	1 1/2
Pressure Test 2000 Pounds	1:30	1:45	1/4
Pull Rams		6:15	4 1/2
Install 2" valve Below Blind Rams	6:15	7:15	1/2
Rig up To Run Tubing	7:15	8:00	3/4
			8 hrs.

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
Rig up to Run Tubing & Measure	1:00		
Pick up 2 3/8 Tubing	2:00	4:00	7
			9

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
Pick up 2 3/8 Tubing	2:00	7:00	3
Tag Sand @ 7232 KB.	7:00	7:15	1/4
Circ & Inhibit Water	7:15	9:30	2 1/4
Pressure up 2000 Pounds	9:30		
P.P. Rams, O.K. & H.V. Drill, O.K.		10:00	1/2
Blow out Kell	10:00	10:30	1/2
Work on Stuck Elevators	10:30	12:00	1 1/2
			8 hrs.

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T Townsend	8
Derrick W.P. Gale	8
Motor C Davis	8
Floor D Lacoste	8
Floor P. SCHLOTZHAUER	8

Accidents N.I

Outside Temp. 23°

Weather Conditions clear

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller G.B. Lloyd	12
Derrick W. Summers	12
Motor A. Davis	12
Floor C. Crabtree	12
Floor C. Murray	12

Accidents N.I

Outside Temp. 15°

Weather Conditions Snow

Road Conditions Fair

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller	
Derrick D CHAGOT	8
Motor D. STRAHLE	8
Floor D. TULPINSK.	8
Floor	

Accidents N.I

Outside Temp. 24°

Weather Conditions Snow

Road Conditions Fair

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Oil Added
1 8	
2 8	
3	
Light Plant 8	
BOILER HRS. 8	

PUMPS		
No. 1	Model	Pressure
		S.P.M.
		Liner Size
No. 2	Model	Pressure
		S.P.M.
		Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

Cement

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
							7300

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: Drilling Unit Stuck

At Surveys Degree

MOTOR HOURS	Oil Added
1 8	
2 8	
3	
Light Plant 8	
BOILER HRS. 8	

PUMPS		
No. 1	Model	Pressure
		S.P.M.
		Liner Size
No. 2	Model	Pressure
		S.P.M.
		Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours J.M. HENDRICKS $140.00

Desilter Hours ZENNER $130.00

Desander Hours

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
							7300

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher Tom Townsend Toolpusher Tom Townsend

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 5 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 53 LOCATION 2-26 LITTLE HOLE

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE ____ 19____

Rig No. 10 Report No. 53

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		15 12:00									

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

W.L. F.C. pH. Solids

MOTOR HOURS	Oil Added
1	
2	
3	
Light Plant	
BOILER HRS.	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod. / Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
Picking up 7" csg	12:00		1/2
		2:30	2 1/2

DATE MARCH 11 1971

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 1971

g No. 10 Page No. 52 LOCATION Gas Location F-08

Rig No. 10 Report No. 52

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		13300									

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				
No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3

Light Plant 4°

BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft

Subs. Ft.

Ft. Down On Kelly

TOTAL

REMARKS	Time Start	Stop	Interval
Pull To Run 7" Pipe	12:00		
& Service Shop Job			
Off Protectors and Wash			
Thawing		6:00	6 HRS
Picking up 7" Csg	4:00	2:00	2 HRS
			8 HRS
(Stay over To Haul)			
(Run 7" Pipe)			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller Tom Morrison	16
Derrick J.R. Davis	16
Motor B. Davis	16
Floor D. Loeven	16
Floor L. Goldstrom	16

Accidents Nil

Outside Temp. — 20

Weather Conditions Clear

Road Conditions Bad

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				
No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3

Light Plant 8

BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL 7800

With Pipe	Without Pipe	Standby		
R & SER		8:00	8:15	1/4
Picking up 7" Casing		8:15	4:00	7 3/4
Stay over Run Casing		4:00	10:00	6

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Tessier	14
Derick W. Charest	14
Motor D. Struble	14
Floor W. Tutchuk	14
Floor	

Accidents Nil

Outside Temp. 70°

Weather Conditions Cloudy

Road Conditions Good

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				
No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3

Light Plant

BOILER HRS.

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Water Truck Hours J.H. HENDRICKS $130.00

Desilter Hours

Desander Hours

F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL

With Pipe	Without Pipe	Standby		
Picking up 7" Csg		4:00	6:00	2
Cut Off Csg Collar		6:00	7:00	1
Picking up 7" Csg		7:00	12:00	5
				8 HRS

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller G.W. Lloyd.	8
Derick W. Summers	8
Motor Al. Kaus.	8
Floor George Gilbert.	8
Floor Gordon Burry.	8 12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Ring on Bit No. _____ D.P. Caliper Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher

Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by

DATE NOVEMBER 3 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE NOVEMBER 3 19 71

Rig No. 10 Page No. 51 LOCATION C106 LA BICHE FOX

Rig No. 10 Report No. 51

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		TD 7300									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

PUMPS						
No. 1	Pressure					
	Model					
	S.P.M.					
	Liner Size					
No. 2	Pressure					
	Model					
	S.P.M.					
	Liner Size					

MOTOR HOURS		Oil Added
1	9	
2	8	
3		
Light Plant	8	
BOILER HRS.	7	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

Cement

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down On Kelly

TOTAL 7300

Nest Slip

REMARKS	Time Start	Stop	Interval
SLIP SER. CHECK BOPS	12 00	12 30	1/4
LAY DOWN 11 1/2" PIPE	12 30	8 00	7 1/2
			8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM GRIFFIN	8
Derrick WAYNE DAVIS	8
Motor E. DODD	8
Floor D. LOEWEN	8
Floor REGULAR HOUR	8

Accidents NIL

Outside Temp. + 10°

Weather Conditions SNOW

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		TD 7308									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

PUMPS						
No. 1	Pressure					
	Model					
	S.P.M.					
	Liner Size					
No. 2	Pressure					
	Model					
	S.P.M.					
	Liner Size					

MOTOR HOURS		Oil Added
1	8	
2	8	
3		
Light Plant	8	
BOILER HRS.	8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

Cement

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL

Nest Slip

REMARKS	Time Start	Stop	Interval
FINISH LAY DOWN PIPE & DC'S	8 00	10 30	2 1/2
RIG SERV & BLIND RAMS	10 30	10 45	1/4
TESTING PIPE & CHANGE 4 1/2 RAMS TO 7"	10 45	12 30	1 3/4
RIG UP TO RUN CASING	12 30	2 00	1 1/2
WAIT ON CASING	2 00	4 00	2
			8 hrs

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LEMIEUX	8
Derrick D. SHAMBLE	12
Motor D. TUTUPUSH	12
Floor V. SCHULZHAUER	12
Floor	

Accidents NIL

Outside Temp. 0

Weather Conditions Cloudy

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7308 TD									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

PUMPS						
No. 1	Pressure					
	Model					
	S.P.M.					
	Liner Size					
No. 2	Pressure					
	Model					
	S.P.M.					
	Liner Size					

MOTOR HOURS		Oil Added
1	8	
2	8	
3		
Light Plant	11-8	
BOILER HRS.	8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.N. HENDRIKS $110.00

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL

Nest Slip

REMARKS	Time Start	Stop	Interval
RIG SERV & BOPS	4 00	4 15	1/4
WAIT ON CO.	4 15	7 45	3 1/2
REMOVE CATTLE GUARDS, RAIL	7 45	12 00	4 1/4
32 JTS 4 1/2			8
[illegible]			
OK			
(Floor Tour)			

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller G.W. LLOYD	16
Derrick W.B. HOAR	4
Motor C. DODD	4
Floor A. LOEWEN	4
Floor [illegible]	16

Accidents NONE

Outside Temp. 0 -

Weather Conditions SNOW

Road Conditions [illegible]

Toteo Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher [signature]

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Toolpusher [signature]

Approved by [signature]

DATE March 1 1971

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE March 2 1971

Rig No. 14 Page No. 2 LOCATION Cree Lovett F-62

Rig No. 14 Report No. 5

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
7300	117	7500		134 M	5 7	7" 6"	3 1/4 2 1/2		5510 Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	14	8 3/4	HRXSSR	C-2	195457									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives H2O	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.7	T	9.7	9.7	GEL 1600#		1 8	
VISCOSITY	48	R	50	50	DVG8 2 gal		2 8	
GEL		I			CAUSTIC 100#		3	
PUMPS No. 1 Pressure	550	P	550	550			Light Plant 8	
Model S.P.M.	6		12				BOILER HRS. 8	
Liner Size	5 1/2 X 15							
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. 9.8 F.C. 2 pH 9.5 Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
12	1	8	152		—	—		7800

Casing Record: Surface; Prod.

Cement

Stands 86275
Singles 3718
D. Collars 3461
Other Ft.
C.S. Ft.
Subs. Ft. 724
Ft. Down on Kelly 19
TOTAL 7500

REMARKS	Time Start	Stop	Interval
Rig SER & 12 Pts	12:00	12:15	1/4
Drlg. Tk 25 Stds	12:15	2:00	1 3/4
Cir w/o CASING	2:00	8:00	6
			7 3/4

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T Zamora	8
Derrick W.R. Adair	8
Motor C Anna	8
Floor D Lacroix	8
Floor	

Accidents Nil
Outside Temp. 10°
Weather Conditions W. WIND, & CLEAR
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
7500	13	7513		134,000	5 7	7" 6"	3 1/4 2 1/2		Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	9 3/4	K15SR	—	498052									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives WATER	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.7	9.7	9.7	9.7			1 8	
VISCOSITY	50	50	50	48			2 8	
GEL							3	
PUMPS No. 1 Pressure	550	550	550	550			Light Plant 8	
Model S.P.M.	6		6				BOILER HRS. 8	
Liner Size	5 1/2							
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. 9.6 F.C. 2 pH 9.5 Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
1/2	1	8	155					0500

Casing Record: Surface; Prod.

Cement

Stands 86275
Singles 3718
D. Collars 3461
Other Ft.
C.S. Ft.
Subs. Ft. 724
Ft. Down on Kelly 19
TOTAL 7500

REMARKS	Time Start	Stop	Interval
RIG SER & CHECK 450 Pts.	8:00	9:15	1/4
CIR & W/O CASE	9:15	4:00	13 1/4
			13 1/4

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Tim MARTIN	8
Derrick A. ADAIR	8
Motor STRUBLE	8
Floor T. PULPINSKI	8
Floor L. CHLOTZHAUER	8

Accidents NIL
Outside Temp. + 25°
Weather Conditions CLEAR
Road Conditions GOOD

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
7300				134 M	5 7	7" 6"	3 1/4 2 1/2		Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	9 3/4	K15SR	—	498052									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives WATER	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.8	8.8	8.7		GEL 1600#		1 8	
VISCOSITY	48	48	56		DVG4 2 gal		2 8	
GEL							3	
PUMPS No. 1 Pressure							Light Plant 8	
Model S.P.M.							BOILER HRS. 8	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. 9.6 F.C. 2 pH 9.5 Solids.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
1/2	1	9	155					

Water Truck Hours J.N. HENDRICKS $50.00

Desilter Hours

Desander Hours

Stands 96775
Singles 2376
D. Collars 3461
Other Ft.
C.S. Ft.
Subs. Ft. 724
Ft. Down on Kelly 19
TOTAL 7300

REMARKS	Time Start	Stop	Interval
Rig SERV ✓ HOSE CHAINS	4:00	4:15	1/4
CIR & W/O CASING	4:15	11:30	7 1/4
Rig UP TO LAY DOWN D.P.	11:30	12:00	1/2
PULL WET STANDS.			8

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller C.W. LLOYD	8
Derrick W.R. ADAIR	
Motor C Anna	
Floor D Lacroix	
Floor Gordon Morris 619-742-858	8

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by: _____

Toolpusher _____

Approved by _____

DATE MARCH 1 19 71 — MARCH 1 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

Rig No. 10 Page No. 49 LOCATION E.P.C.G. Lavoie Twp

Rig No. 10 Report No. 43

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1700	1700	7200			5	7"	2 1/4		4 3/8"		

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2-1	9 3/4	RX55R	OPEN	193058									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives H20
WEIGHT	8.7		8.7	8.7	
VISCOSITY	52	IR	54	52	
GEL					

PUMPS												
No. 1	Pressure	500										
Model C 220	S.P.M.	60										
	Liner Size	5 1/2 X 15										
No. 2	Pressure											
Model C 250	S.P.M.											
	Liner Size	5 1/2 X 15										

W.L. 9.4 F.C. 2 pH 9.5 Solids

At Surveys Degree		MOTOR HOURS	Oil Added
		1 8	
		2 8	
		3	
		Light Plant 7	
		BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
4 1/2	1	8	152		— —		6800

Casing Record: Surface — Prod. — Cement

Stands	6817 70
Singles	2178
D. Collars	364.61
Other Ft.	
C.B. Ft.	7.61
Subs. Ft.	
Ft. Down On Kelly	16
TOTAL	7200
Next Slip	6800

REMARKS	Time Start	Stop	Interval
K.g SERVE 4 1/2 KDBS	12[00]	12[15]	1/4
Dump, TRIP 25 STDS	12[15]		
MO Fill on 12 STDS		2[15]	2
C.O. w/o Casing	2[15]	8[00]	5 3/4
			8hrs

With Pipe	Without Pipe	Standby

Accidents Nil
Outside Temp. 2°
Weather Conditions SNOW
Road Conditions POOR

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T [illegible]	8
Derrick [illegible]	8
Motor C [illegible]	8
Floor D [illegible]	8
Floor	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7200	1300	8500		134,000	5	7"	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2-1	9 3/4	RX55R	—	193058									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives WATER
WEIGHT	8.7	8.7	8.7	8.7	
VISCOSITY	55	55	54	52	
GEL					

PUMPS												
No. 1	Pressure	550	550	550	550							
Model F 500	S.P.M.	60		60								
	Liner Size	5 1/2										
No. 2	Pressure											
Model F 500	S.P.M.											
	Liner Size	5 1/2										

W.L. 9.6 F.C. 3/32 pH 9.5 Solids

At Surveys Degree		MOTOR HOURS	Oil Added
		1 8	
		2 8	
		3	
		Light Plant 8	
		BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface — Prod. — Cement

Stands	6817 70
Singles	3178
D. Collars	364.61
Other Ft.	
C.B. Ft.	
Subs. Ft.	724
Ft. Down on Kelly	69
TOTAL	7200

REMARKS	Time Start	Stop	Interval
With Pipe / Without Pipe / Standby			
LAY SIR. CHECK BOLTS	8[00]	8[15]	1/4
C.O.C.O. W/O CASING	8[15]	11[00]	7 3/4
			8

Accidents Nil
Outside Temp. +3°
Weather Conditions Cloudy + Light Snow
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Tomaszewski	12
Derrick D. Chabot	12
Motor D. Sirubbo	12
Floor D. Tubinskie	12
Floor SCHLEE HOUSE	12

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
8500	1300	9800		134,000	5	7"	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2-4	9 3/4	RX55R	—	193058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives WATER
WEIGHT	8.7	8.7	8.7	9.7	
VISCOSITY	53	52	52	50	
GEL					

PUMPS												
No. 1	Pressure	550	550									
Model F 500	S.P.M.	60		60								
	Liner Size	5 1/2										
No. 2	Pressure											
Model F 500	S.P.M.											
	Liner Size	5 1/2										

W.L. 9.6 F.C. 2 pH 9.5 Solids

At Surveys Degree		MOTOR HOURS	Oil Added
		1 8	
		2 8	
		3	
		Light Plant 8	
		BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface — Prod. — Cement

Water Truck Hours
Dresser Hours
Dresser Hours

Stands	6817 70
Singles	3178
D. Collars	364.61
Other Ft.	
C.B. Ft.	
Subs. Ft.	724
Ft. Down on Kelly	1300
TOTAL	7300

REMARKS	Time Start	Stop	Interval
With Pipe / Without Pipe / Standby			
TRIP SIR. C.O. BOLTS.	4[00]	4[15]	1/4
C.O.C.O. W/O CASING	4[15]	11[00]	7 3/4
			8

Accidents Nil
Outside Temp.
Weather Conditions
Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T Tomaszewski	4
Derrick [illegible]	4
Motor C [illegible]	4
Floor D [illegible]	4
Floor	

Toteo Ring on Dr. No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE Feb 28 19 77

NABORS DRILLING LIMITED

Rig No. 4 Page No. 5 LOCATION C-5-A Lease Fox 2

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 28 19 77

Rig No. 4 Report No. 12

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
T.D.		7300		120							

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1	8¾	HYC 200	OPEN	199063									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT			8.6	8.6	WATER	
VISCOSITY	45		60	53		
GEL	—					

PUMPS															
No. 1	Model	Pressure	S.P.M.	Liner Size	No. 2	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
				6½ X 16					5½ X 16	12¼	1½	8	75		—	—	

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

Casing Record: Surface — Prod.

Cement

W.L. 9.2 F.C. pH. 9.5 Solids

Stands 6317.5
Singles 31.18
D. Collars 366.3
Other Ft.
C.B. Ft.
Subs. Ft. 7.24
Ft. Down On Kelly 11
TOTAL 7300

Next Slip @ 8000

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7300		T.D. 7300		134,000							

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	2	8¾	HASSX	—	198058									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT	8.6	8.8	8.8	8.6		
VISCOSITY	61	64	60	60		
GEL	9.5			9.5	NIL	

PUMPS															
No. 1	Model D	Pressure 550	S.P.M. 60	Liner Size 5½	No. 2	Model D	Pressure 550	S.P.M. 60	Liner Size 5½	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
		550	60	5½			550	60	5½								

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

Casing Record: Surface — Prod.

Cement

W.L. 9.9 F.C. 2/32 pH. 9.5 Solids

Stands 6869.5
Singles 31.98
D. Collars 364.11
Other Ft.
C.B. Ft.
Subs. Ft. 7.24
Ft. Down on Kelly 28
TOTAL 7308

Next Slip @ 8000

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7308		T.D. 7308		130,000							

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	8¾	HASSX	—	199058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives H2O	At Surveys Degree
WEIGHT	8.7	8.7	9.7	8.7		
VISCOSITY	56	54	54	52		

PUMPS															
No. 1	Model D	Pressure 540	S.P.M. 60	Liner Size 6½ X 16	No. 2	Model D	Pressure	S.P.M.	Liner Size 6½ X 16	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool

MOTOR HOURS	Oil Added
1	7
2	7
3	
Light Plant	7
BOILER HRS.	7

Water Truck Hours J.V. HENDRICKS

Desilter Hours

Desander Hours

W.L. 9.3 F.C. 2/32 pH. 9.5 Solids

Stands 6869.5
Singles 31.98
D. Collars 364.11
Other Ft.
C.B. Ft. 1.64
Subs. Ft.
Ft. Down on Kelly 29
TOTAL 7308

Next Slip @ 8000

REMARKS	Time Start	Stop	Interval
Wash To + 25 Std +	1	1	1
K.O. SER + RS	1	1	½
TRIP IN, NO FILL	1	2	3½
CIR Repair casing	2	8	6
			T.D.

With Pipe — Without Pipe — Standby

REMARKS	Time Start	Stop	Interval
RIG SER, Check Jars	8	8	¼
CIRC + WIPE PRIOR	8	8	½
			8

With Pipe — Without Pipe — Standby

REMARKS	Time Start	Stop	Interval
L/D DP + Coll's	4	4	11
RIG UP + RUN	4	11	7½
			T.D.

With Pipe — Without Pipe — Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Lawton	7
Derrick N. Arnold	8
Motor W. Wyckoff	8
Floor T. Davis	8
Floor D. Lawson	8

Accidents Nil
Outside Temp. 32°
Weather Conditions Clear
Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Wharton	16
Derrick Arn Scott	8
Motor D. Stubble	8
Floor Dick Tubbs	16
Floor Dale Lawson	4

Accidents Nil
Outside Temp. 15°
Weather Conditions Clear & Windy
Road Conditions Poor

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller —	
Derrick J. Erickson	4
Motor C. Johnson	8
Floor	
Floor D. Lawson	1

Accidents Nil
Outside Temp. 12°
Weather Conditions Cloudy
Road Conditions Poor

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE Feb 21 19 71

NABORS DRILLING LIMITED

Rig No. 12 Page No. 117 LOCATION Craig Lacombe Test

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Gals. / Bbls.	CRUDE Gal. / Bbls.
T.D	7		13		5 7	7" 6"	2¼ 2⅜		3100	—	

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	20	8¾	RSSK	OPE	198052									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	48	47	46	47
GEL				

Additives NIL

At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS: No. 1 Pressure 800; Model C; S.P.M. 65; Liner Size 6½

Check Valves #2 Pump

No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1⅛	1/4	8	32		—		—	

Casing Record: Surface; Prod.

Cement

W.L. 9.8 F.C. 2/32 pH 9.5 Solids

Stands 68477

Singles 3178

D. Collars 360.61

Other Ft.

C.B. Ft.

Subs. Ft. 724

Ft. Down On Kelly 14

TOTAL 7300

Next Slip 2800

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
T.D		13300		134.000	5 7	7" 6"	2¼ 2⅜				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	24	8¾	RSSK	—	198058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.6	8.6	8.6	8.6
VISCOSITY	44	44	43½	43
GEL	4	4	5	

Additives WATER 2500 gal. SEL DU-6X 3 gal.

At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3 8

Oil Added

Light Plant 8

BOILER HRS. 3

PUMPS: No. 1 Pressure 550; Model; S.P.M. 60; Liner Size 5½

No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1⅛	1/4	7	30		—		—	

Casing Record: Surface; Prod.

Cement

Water Truck Hours J.M. HENDRICKS

Desilter Hours

Desander Hours

W.L. 9.8 F.C. 2/32 pH 7.5 Solids

Stands 68677

Singles 3178

D. Collars 360.61

Other Ft.

C.B. Ft.

Subs. Ft. 724

Ft. Down on Kelly 16

TOTAL 7300

Next Slip 2800.00

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 21 19 71

Rig No. 12 Report No. 47

REMARKS	Time Start	Stop	Interval
R.S. TRIP & REAM	12	12½	½
2 STD TO BOTTOM	12½	1½	1
CUT & SLIP LINE 50 FT	1½	2	¾
TRIP IN, NO FILL	2	2½	½
WAIT ON CASING	2	8	5½
			Flow

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
R.S. SERV. BOPS	9	8½	½
RIG. W/O CASING	1½	4	2¾
			8

With Pipe | Without Pipe | Standby

REMARKS	Time Start	Stop	Interval
R.S. SERV. BOPS	4	4½	½
RIG. W/O CASING	4½	12	7¾
			Flow

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.

	Hrs.
Driller T Zenner	8
Derrick W. Adams	8
Motor C Davis	8
Floor J Evans	8
Floor L Lemon	8

Accidents Nil

Outside Temp. 15°

Weather Conditions Clear

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.

	Hrs.
Driller Tim Sheridan	12
Derrick K. Richardson	8
Motor W. Wyerman	8
Floor Tallinski	12
Floor T. Evans	4

Accidents Nil

Outside Temp. 15°

Weather Conditions Clear

Road Conditions Poor

Tour — 4 p.m. to Midnight

Specify actual hours worked.

	Hrs.
Driller T Zenner	4
Derrick D. Chabot	8
Motor D. Stinchcombe	8
Floor D Lemon	4
Floor	

Accidents Nil

Outside Temp. 10°

Weather Conditions Clear

Road Conditions Poor

DATE Feb 26 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 46 LOCATION C.P.O.G. La Biche F-02

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 26 1971

Rig No. 10 Report No. 46

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
T.D.	7300			134 M	5 7	7" 6"	2 1/4 2 3/4				

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
1	4	8 3/4	K-55R	OPEN	198058									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.1	8.2	8.4	
VISCOSITY	57	56	53	
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

Stands 6.067 | Singles 31.76 | D. Collars 364.11 | Other Ft. | C.B. Ft. | Subs. Ft. 7.24 | Ft. Down On Kelly | TOTAL 7300

Pumps																
No. 1	Model	S.P.M.	Liner Size	Pressure	No. 2	Model	S.P.M.	Liner Size	Pressure	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
										1 1/8	4	8	655		—	—	

Next Slip @ 800

Casing Record: Surface; Prod.

W.L. F.C. pH. Solids

Cement

REMARKS	Time Start	Stop	Interval
R.U SERV & HYDRIL	12 00	12 15	1/4
WAIT ON CAT	12 15	2 00	7 3/4

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. EVANS	8
Derrick W. KOCH	8
Motor C. VALA	8
Floor T. EVANS	8
Floor R. LEWIS	8

Accidents NIL

Outside Temp. 5°

Weather Conditions SNOW

Road Conditions POOR

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
T.D.	7300			134,000	5 7	7" 6"	2 1/4 2 3/4				

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2	4	8 3/4	K-55R	—	198058									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.7		8.6	
VISCOSITY	45		42	
GEL				

Additives: Cem. 1600 lbs. DIES - 2 gal. CaCl C. 50 lbs.

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

Stands 6867.75 | Singles 31.78 | D. Collars 364.61 | Other Ft. | C.B. Ft. | Subs. Ft. 7.24 | Ft. Down on Kelly 16 | TOTAL 7300

Pumps																
No. 1	Model	S.P.M.	Liner Size	Pressure	No. 2	Model	S.P.M.	Liner Size	Pressure	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
550	5	60	6 1/2	550						1 1/4	4	8	655		—	—	

Next Slip @ 800

Casing Record: Surface; Prod.

W.L. 45 F.C. 32 pH 9.0 Solids

Cement

REMARKS	Time Start	Stop	Interval
RIG SERV CLOSE 9 1/2 RAMS	8 00	8 15	1/4
HOIST OUT TO 9200	8 15	9 15	1
TRIP IN 25 STDS	9 15	10 00	3/4
CIR WAIT ON CSG	10 00	4 00	6

With Pipe | Without Pipe | Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller TONY MARTIN	12
Derrick E. MARTIN	8
Motor M. WHEELER	8
Floor R. TUCKER	8
Floor G. HENDRICKS	6

Accidents NIL

Outside Temp. 10 +

Weather Conditions CLEAR

Road Conditions POOR

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
				134 M	5 7	7" 6"	2 1/4 2 3/4				

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2	4	8 3/4	K-55R	—	198058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.6	8.6	8.6	8.6
VISCOSITY	47	47	46	45
GEL				

Additives: WTR

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant —; BOILER HRS. 8

Oil Added

Stands 6867.75 | Singles 31.78 | D. Collars 364.61 | Other Ft. | C.B. Ft. | Subs. Ft. 7.24 | Ft. Down on Kelly 16 | TOTAL 7300

Pumps																
No. 1	Model	S.P.M.	Liner Size	Pressure	No. 2	Model	S.P.M.	Liner Size	Pressure	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool

Next Slip @ 20.00

Water Truck Hours J.N. HENDRICKS

Desilter Hours

Desander Hours

W.L. 100 F.C. 32 pH 9.5 Solids

REMARKS	Time Start	Stop	Interval
RIG SER & BOPS	4 00	4 12	1/4
RIG UP & RUN 9 5/8" CSG	4 12	11 00	7 3/4

With Pipe | Without Pipe | Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. EVANS	4
Derrick D. GHOST	8
Motor D. STRUBLE	8
Floor R. RANDALL	4
Floor DALE LEWIS	4

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by

DATE FEB 25 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 25 19 71

Rig No. 10 Page No. 4 LOCATION C.P.L.C. LA-LICE F-08

Rig No. 10 Report No. 42

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	TD	7300		134 M	5 / 7	7" / 6"	2 3/4 / 2 3/4				

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
24	8 3/4	RxSSR	6 6 6	198059									

Mud Record

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	34	39	42	48
GEL				

Additives: GEL 3500# ; DV 45 4 gal

At Surveys Degree

MOTOR HOURS: 1 — 8 ; 2 — 8 ; 3 — ; Light Plant — 8 ; BOILER HRS. — 8

Oil Added

Pump Record

PUMP												
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
					12 1/4	4	8	655		—	—	
No. 2												

Next Slip: 4800

Casing Record: Surface ; Prod.

Cement

W.L. 9.6 F.C. 2 pH 9.5 Solids

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
TD		7300		134 M 690	5 / 7	7" / 6"	2 3/4 / 2 3/4				

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
24	9 3/4	RxSSR	—	198059									

Mud Record

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	55	54		48
GEL				

Additives: WATER ; GEL 5TH SPL. ; 3 GELS DV 45

At Surveys Degree

MOTOR HOURS: 1 — 8 ; 2 — 8 ; 3 — ; Light Plant — 8 ; BOILER HRS. — 8

Oil Added

Pump Record

PUMP												
No. 1	Model 12 P	Pressure 500	S.P.M. 60	Liner Size 5 1/2	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
No. 2	Model 12 P	Pressure 500	S.P.M. 60	Liner Size 5 1/2								

Next Slip

Casing Record: Surface ; Prod.

Cement

W.L. 9.2 F.C. 2/32 pH 9.5 Solids

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
TD		7300		134 690	5 / 7	7" / 6"	2 3/4 / 2 3/4				

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
24	9 3/4	RxSSR	[illegible]	198059									

Mud Record

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.6	8.6	8.6	8.6
VISCOSITY	59	57	56	59
GEL				

Additives: —

At Surveys Degree

MOTOR HOURS: 1 — 8 ; 2 — 8 ; 3 — ; Light Plant — 8 ; BOILER HRS. — 8

Oil Added

Pump Record

PUMP												
No. 1	Model	Pressure	S.P.M.	Liner Size	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool
					12 1/4	4	8	655		—	—	
No. 2												

Next Slip 6800

Water Truck Hours: T.P. HENDRICKS 5 HRS

Desilter Hours: J.M. HENDRICKS — $100.00

Desander Hours:

W.L. 9.2 F.C. 2/32 pH 9.5 Solids

Stands / Singles / Drill Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

	Bit 1	Bit 2	Bit 3
Stands	867.75	1967.75	6367.75
Singles	31.78	31.99	31.78
D. Collars	364.61	364.61	364.61
Other Ft.			
C.B. Ft.			
Subs. Ft.	7.24	7.24	7.24
Ft. Down on Kelly	15		
TOTAL	7300	4800	6800

REMARKS

REMARKS	Start	Stop	Interval
Circ Cond Mud &	12 00		
WAIT ON CASING		7 15	7 3/4
R.g SERV & 4½ RAMS	7 00	8 00	1/4
			15 hrs
With Pipe / Without Pipe / Standby			
R.g SERVICE & BOPs.	8 00	9 15	1/4
CIRC & COND MUD W/O CASING	8 15	11 00	7 3/4
			8
With Pipe / Without Pipe / Standby			
R.g SERV & BOPs.	4 00	4 15	1/4
CIRC & W/O CASING.	4 15	10 00	5 3/4
25 STD DUMMY TRIP	10 00		
NO FILL ON BOTTOM		11 30	1 1/2
CIR & W/O CASING	11 30	17 00	1/2
			15 hrs
With Pipe / Without Pipe / Standby			

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZOMAR	8
Derrick W. ADAMS	8
Motor C. LEA	8
Floor T. EVANS	8
Floor D. LEMAIN	8

Accidents NIL

Outside Temp. 5°

Weather Conditions SNOW

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. TIM MARTIN	12
Derrick ERIK AMAK JR	8
Motor TOM WYCHALOW	8
Floor STEVE PIGEAU	12
Floor T. HENDRICKS	8

Accidents NIL

Outside Temp. 5 T°

Weather Conditions CLEAR

Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZOMAR	4
Derrick D. CHABOT	9
Motor D. STROBLE	8
Floor M. MISKOSKY	8
Floor D. LEMAIN	4

Accidents NIL

Outside Temp. 5°

Weather Conditions SNOW

Road Conditions POOR

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE FEB 24 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 24 19 71

Rig No. 10 Page No. 44 LOCATION C. ROCK LAKE HWY F-6-8

Rig No. 10 Report No. 44

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL 2'10" Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Survey, Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8; Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands; Singles; D. Collars; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Down On Kelly; TOTAL T.D. 73.00

REMARKS	Time Start	Stop	Interval
CHAIN OUT W/ FISH	12⁰⁰	2⁴⁵	2 3/4
RIG UP TO LAY DOWN	2⁴⁵		
D.C.'S & NO. D.C.'S 13		4⁰⁰	1 1/4
BREAKING DOWN TESTING	4⁰⁰		
TOOLS & SERVICING SAME		8⁰⁰	4
			Shut

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZEMAN	10
Derrick W.O. ADAMS	10
Motor C. DAVIS	8
Floor E. EVANS	12
Floor D. LEPOW	8

Accidents N.I

Outside Temp. 0

Weather Conditions SNOW

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		T.D. 7300									

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	8 3/4	RXC5R	OUT	19805			RAN TO CLEAN OUT						

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 — 8; 2 —; 3 —; Light Plant 8; BOILER HRS. 8; Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

F.C. pH. Solids

Stands 672220; Singles 2189; D. Collars 364.61; Other Ft.; C.B. Ft.; Subs. Ft. 7.24; Ft. Down on Kelly 7.63; TOTAL 7300.

REMARKS	Time Start	Stop	Interval
RIG SERVICE (BLIND RAMS)	8⁰⁰	8¹⁵	1/4
BRK & LAY DOWN TESTER	8¹⁵	11⁰⁰	2 3/4
POH B.T & DES & RAN IN	11⁰⁰	2³⁰	3 1/2
BRK CIRC	2³⁰	2⁴⁵	1/4
CHANGE TO RTM 80'	2⁴⁵	4⁰⁰	1/4
NO FILL			8

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. MARTIN	8
Derrick A. AMARIA	8
Motor W. CHOPAK	8
Floor E. TULPOSKI	8
Floor T. HENDRICKS	8

Accidents N.I

Outside Temp. 15° 0

Weather Conditions SNOW

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	50 7300				3 7	6 1/4	2 1/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	8 3/4	RXC5R	OUT	19805			Circ & Cond Hole & Mud						

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT	8.6	8.6		8.6	DEFLEX 500#	
VISCOSITY	55	40		38	CAUSTIC 250#	
GEL	FA 8.5	12 9.2			GEL 1000#	

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8; Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. 42 / Liner Size 5 1/2; Model C-100

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.P. HENDRICKS 10 — $60.00

Desilter Hours: J.N. HENDRICKS

Desander Hours

W.L. 9.2 F.C. 2/32 pH. 9.5 Solids.

Stands 686775; Singles 31.78; D. Collars 364.61; Other Ft.; C.B. Ft.; Subs. Ft. 7.24; Ft. Down on Kelly; TOTAL 7300

REMARKS	Time Start	Stop	Interval
WASH 70' TO BOTTOM	4⁰⁰		
NO FILL		4¹⁴⁵	3/4
RIG SERV @ HYDRIL	4¹⁴⁵	5⁰⁰	1/4
CIRC COND MUD & WAIT	5⁰⁰		
ON ORDERS		12⁰⁰	7

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents N.I

Outside Temp. 5° +

Weather Conditions SNOW

Road Conditions POOR

Toolpusher Tony Paone

Toolpusher Tony Paone

Approved by

Toco Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs.

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE FEB 23 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 23 19 71

Rig No. 10 Page No. 43 LOCATION C.P.O.G - LA-BICHE F-08

Rig No. 10 Report No. 43

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
T.D	1300								900 Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				8.3
VISCOSITY				48
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 / 2 8 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. F.C. pH 9.5 Solids Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
1300	73.00								Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: GEL #8 SAX. / 1 GAL DV 68.

At Surveys Degree

MOTOR HOURS: 1 8 / 2 8 / 3 / Light Plant 8 / BOILER HRS. Dyed.

Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. F.C. pH. Solids Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
9200 TD									Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 / 2 4 / 3 / Light Plant 4 / BOILER HRS. 2

Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J P HENDRICKS $60 / Desilter Hours: J N HENDRICKS $10. / Desander Hours

Casing Record: Surface / Prod.

W.L. F.C. pH. Solids. Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
Moving Fluid ½ bbl @	12 00		
½ Hr INTERVALS		4 30	4½
CIR FREE DP & DCFEL	4 30		
FLUSH OUT OF MUD		6 00	1½
RIG UP TO FREE POINT	6 00	6 15	¼
RUN IN TO FREE POINT	6 15		
PIPE		8 00	1¾

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Stop	Interval
FIND FREE POINT & RAN STRING SHOT.	8 00	10 00	2.
TRIP OUT DRILL PIPE & 4 D.C.S. (CHAIN OUT)	10 00	2 00	4.
PICK UP 3 DCS PACKER & JARS.	2 00	4 00	2

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Stop	Interval
MAKE UP FISHING TOOLS	4:00	4:30	½
RIG SERV @ HYDRIL	4:30	4:45	¼
TRIP IN	4:45	7:30	2¾
HEAD UP TO NEUTRALIZE	7:30		
PRESSURE & SCREW INTO FISH		9:00	1½
JARRING & WORKING FISH	9:00		
FREE		9:45	¾
CHAIN OUT W/ FISH TO CSG	9:45	11:45	2
TEAR OUT BEAR TOOLS	11:45	12:00	¼

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents NIL
Outside Temp. +5
Weather Conditions CLEAR
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	8.
Derrick R. AMALIA	8.
Motor M. WYEHOPEN	8
Floor RICH TULPINKI	8.
Floor BEN DORVEL	8

Accidents NIL
Outside Temp. 20 T°
Weather Conditions SNOWING.
Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL
Outside Temp. 15-0+
Weather Conditions Snow
Road Conditions POOR

Totco Ring on Bit No. ..... D.P. Calipered Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher Gary Lesure

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company Time ..... Hrs. Approved by .....

Toolpusher Gary Lesure

Approved by H.E. Lesure

DATE Feb 22 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 22 19 71

Rig No. 10 Page No. 42 LOCATION C.P.O.G. LA-BICHE F-08

Rig No. 10 Report No. 42

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
T.D		7300							4'/ Gals.	Bbls.	Gal. / Bbls

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				8.2
VISCOSITY				210
GEL				

Additives: At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

Oil Added:

Stands: TOTAL T.D 7300

Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly

PUMPS				
No. 1	Pressure			1100
Model:	S.P.M.			60
	Liner Size			5½
No. 2	Pressure			
Model:	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. F.C. pH. 8.5 Solids Cement

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
TD	7300								Gals.	Bbls.	Gal. / Bbls

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY	77	43		
GEL				

Additives: 500 lb. DELTEX; 50 # CAUSTIC

At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 1-8; BOILER HRS. 8

Oil Added:

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

PUMPS				
No. 1	Pressure			
Model:	S.P.M.			
	Liner Size			
No. 2	Pressure			
Model:	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. 96 F.C. pH. 7.5 Solids Cement

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
-	TD 7300								Gals.	Bbls.	Gal. / Bbls

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. Down

Oil Added:

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

PUMPS				
No. 1	Pressure			
Model:	S.P.M.			
	Liner Size			
No. 2	Pressure			
Model:	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.N. HENDRICKS — $80.00

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

REMARKS	Time Start	Time Stop	Time Interval
TESTing D.S.T #4	12⁰⁰	1³⁰	1½
WORK STUCK PACKER	1³⁰		
CIR SAME		8⁰⁰	6½
D.S.T #4 - 7055 - 7150 - M.D. DEN. SHALE CARBONATE			
Work intial wt blow. Continued through wt test. Unable to move tool for F.S.I. due to stuck D.C. Open bundle out sub sheet line & work pipe			

With Pipe / Without Pipe / Standby

WAIT ON PIPE LAX	8⁰⁰	11³⁰	3½
MIX 50 gal PIPE LAX	11³⁰		
WITH 1400 gal DIESEL FUEL		12³⁰	1
DISSPLACE WITH 906 STROKES	12³⁰		
BY 6¼ X15 = 109.6 BBLS		1³⁰	1
WAIT ON PIPE LAX	1³⁰	4⁰⁰	2½
TO FREE PIPE			
USED 1400 gal DIESEL FUEL			

With Pipe / Without Pipe / Standby

Moving Fluid ½ bbl @ ½ hr Intervals	4:00	12:00	8
WATER LEVEL STUCK ON BOILER CAUSING FIRE TO STAY OUT AND WATER PUMP TO KICK OFF 4 FLUES LEAKING			

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents NIL
Outside Temp. CLEAR
Weather Conditions 10+
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Jim MARTIN	8
Derrick E.K. AMALIA	8
Motor M. WYCHOPEN	8
Floor RICH. TULPINSKI	8
Floor BEN. DARVEL	8

Accidents NIL.
Outside Temp. 20+°
Weather Conditions CLEAR & WINDY
Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL
Outside Temp. 10°
Weather Conditions Cloudy & windy
Road Conditions POOR

Torco Ring on Bit No. ..... D.P. Caliphered Date ..... Results ..... From Pipe Rack .....

B.O.P. Test-Operated ..... Time ..... Results .....

Total Contractor Time ..... Hrs. Toolpusher Tony Loewen

Total Company Time ..... Hrs. Approved by .....

Toolpusher Tony Loewen

Approved by R. Collins

DATE FEB 21 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 41 LOCATION C.P.O.G. LA-BICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 21 19 71

Rig No. 10 Report No. 41

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
		T.D. 7300							4991 Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Site Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Drlg	Cut	Feet Left on Spool	Next Slip

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL 7300

REMARKS	Time Start	Stop	Interval
Rig SERV & Blind Rams	12 00	12 15	1/4
Break Down & SERVICE	12 15		
TESTING Tools.		1 30	1 1/4
MAKE up D.S.T.	1 30	3 30	2
TRIP in Slow	3 30	6 00	2 1/2
Head up	6 00	6 30	1/2
Blow out FLAIR Line	6 30	6 45	1/4
Testing	6 45	8 00	1 1/4
			8 hrs

With Pipe / Without Pipe / Standby

Rig SERV & TESTING	8 00	9 45 3/4
SHUT in	9 45	10 45 1
TRIP OUT TESTER.	10 45	3 00 4 1/4
BRK Tool.	3 00	4 00 1

D.S.T. #2 - 6420 - 6475 - M.D. DEV. CORBONATE
Good initial air blow, gas to surface in
2 mins & water to surface in 10 mins.
Max Pressure 2900 IHOF 1/2
Rec 245' Rock bit blower gas cut
water - 2250 PPM Salt

With Pipe / Without Pipe / Standby

Rig Serv	4 00	4 15 1/4
Break Down & Service	4 15	
Test Tools		5 15 1
Pick Up & Make Up Tools	5 15	
For D.S.T #4		7 30 2 1/4
Trip In Slowly	7 30	10 30 3
Head Up	10 30	11 00 1/2
Testing D.S.T #4	11 00	12 00 1

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZEMRICK	8
Derrick W.R. ADAIR	8
Motor C. DAWA	8
Floor J. EVANS	8
Floor D. LARWIN	8

Accidents N.I
Outside Temp. 10°
Weather Conditions SNOW
Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick PAT MALIA	8
Motor W. WEHOPEN	8
Floor FRANK TARLINSKI	8
Floor GEN DORVEL	8

Accidents NIL
Outside Temp. 10 F°
Weather Conditions SNOW & WINDY.
Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick RAYMOND CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL
Outside Temp. 10 BF
Weather Conditions cloudy, wind
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
		T.D. 7300							Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Site Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Casing Record: Surface THP 2940 ISIP 1790 FEP 700
Prod. FNP 3940 ESIP 1790 FFP 1100

Cement TEMP 220°

W.L. F.C. pH. Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Drlg	Cut	Feet Left on Spool	Next Slip

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL 7300

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
		T.D. 7300							Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Site Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Drlg	Cut	Feet Left on Spool	Next Slip

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL 7300

Total Rig on Bottom ..... D.P. Collapsed Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs Toolpusher .....

B.O.P. Test-Operated ..... Time ..... Blowin ..... Total Company Time ..... Hrs Approved by ..... Approved by .....

DATE Feb 20 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

Rig No. 10 Page No. 40 LOCATION C.P.O.G LABICHE F08

DATE Feb 20 19 71

Rig No. 10 Report No. 40

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
	TD 7300			133 M#	5 10	6	2 3/4 2 1/2		571 Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	8 3/4	RISSR	OUT	198058			Circ - Cond Mud						

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.8	9.8	9.8		Gel - 3000#		1 8	
VISCOSITY	—	85	72		DV-69 — 4 gals		2 8	
GEL	P2 9	9.0	9.5		Caustic - 100#		3	
PUMPS No. 1 Pressure	550	550	550				Light Plant 8	
PUMPS Model S.P.M.	65	65	65				BOILER HRS. 8	
PUMPS Liner Size	5 1/2	5 1/2	5 1/2					
No. 2 Pressure								
Model S.P.M.								
Liner Size	5 1/2							

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
1 1/4		8	75	—	—	—	—	—	800

Casing Record: Surface; Prod.

W.L. 8.4 F.C. 2/32 pH. 9.5 Solids Cement

Stands	6772.20
Singles	31.88
D. Collars	474.63
Other Ft.	5.60
C.B. Ft.	
Subs. Ft.	7.75
Ft. Down On Kelly	31
TOTAL	7300

REMARKS	Time Start	Stop	Interval
Rig Serv @ B.O.Ps	12'00	12'15	1/4
Circ - Build Volume +	12'15		
Cond Mud For D.S.T #2		5'30	5 1/4
Trip Out For D.S.T #2	5'30	8'00	2 1/2

With Pipe Without Pipe Standby

Finish Trip out	8'00	8'30	1/2
Rig Ser & Blind Rams	8'30	8'45	1/4
Making up D.S.T. #2	8'45	12'00	3 1/4
Trip in Slow	12'00	3'15	3 1/4
Testing	3'15	4'00	3/4
			8 hrs

D.S.T #2 - 6420-6516 - Mid. Upper Mannville

Good initial air blow, gas to surface in 3 minutes

+ water surface in 46 minutes, Gas Rate

33 000 MCF/D - MF 5 min. FSI 60 minutes

V.C. 75. min. FSI 60 minutes.

Recovered 1385 feet Rathole gas cut mud

With Pipe Without Pipe 7100 PPM Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
TD 7300		TD 7300							Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24													

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
PUMPS No. 1 Pressure							Light Plant 8	
PUMPS Model S.P.M.							BOILER HRS. 8	
PUMPS Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface ZAP 2946 ISIP 1785 FSIP 1050; Prod. FAP 2946 FSIP 1790 FSIP 1226

W.L. F.C. pH. Solids Cement TEMP 220 F

Stands	
Singles	
D. Collars	
Other Ft.	
C.B. Ft.	
Subs. Ft.	
Ft. Down on Kelly	
TOTAL	TD 7300

With Pipe Without Pipe Standby

SHUT IN	4'00	4'30	1/2
OPEN TOOL & TESTING.	4'30	6'00	1 1/2
SHUT IN	6'00	7'00	1
HOISTING	7'00	10'30	3 1/2
BRK TOOL.	10'30	12'00	1 1/2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
TD ~7300									Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 9	
VISCOSITY							2 9	
GEL							3	
PUMPS No. 1 Pressure							Light Plant 8	
PUMPS Model S.P.M.							BOILER HRS. 9	
PUMPS Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Water Truck Hours J P HENDRICKS 9.0

Diesel Truck Hours J.N. HENDRKKS — $90.00

Dewatering Hours

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents N.I

Outside Temp. 10° +

Weather Conditions cloudy + windy

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZEMMOR	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents N.I

Outside Temp. 75

Weather Conditions Cloud

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM. MARTIN	8
Derrick DICK AMALIA	8
Motor M. WYCHOFEN	8
Floor DICK TULLMINSON	8
Floor GEN. DORVEL	8

Accidents NIL

Outside Temp. 5° C

Weather Conditions CLEAR & WINDY

Road Conditions POOR.

Totco Ring on Bit No. ..... D.P. Calipered Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher Tony Lamb

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company Time ..... Hrs. Approved by ..... Approved by [signature]

DATE Feb 19 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 39 LOCATION CPOG Labiche F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 19 19 71

Rig No. 10 Report No. 39

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL 5783 Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	TD 7300										

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT						7300 8°	1 4	
VISCOSITY							2 4	
GEL							3	
							Light Plant 4	
							BOILER HRS. 8	

PUMPS

No. 1	Pressure													
Model	S.P.M.													
	Liner Size													
No. 2	Pressure													
Model	S.P.M.													
	Liner Size													

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

Cement

W.L. F.C. pH. Solids

Stands	
Singles	
D. Collars	
Other Ft.	
C.B. Ft.	
Subs. Ft.	
Ft. Down On Kelly	
TOTAL	

REMARKS	Time Start	Stop	Interval
Finish Trip Out	12:00	12:15	1/4
Rig Serv & Blind Rams	12:15	12:30	1/4
Pick Up 7 Drill Collars			
For Tail Pipe & Make Up Test Tools		1:30	1
Work On Light Plant	1:30	2:15	3/4
Finish Making Up Test Tools	2:15	3:45	1 1/2
TIH in w/Test #1	3:45	6:45	3
Hedd up	6:45	7:30	3/4
Testing D.S.T #1	7:30	8:00	1/2
Layed Down Monel Collar			

With Pipe Without Pipe Standby

Testing D.S.T #1	8:00	11:00	3
[redacted]	11:00		1/2
Work Testing Tool		11:30	
TRIP out Slow	11:30	2:45	3 1/4
Breaking & Serv Tools	7:45	4:00	1 1/4
			8 hrs

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIB	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents N.I

Outside Temp. 15°C

Weather Conditions Clear

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZEMMER	8
Derrick W.R. ADAIR	8
Motor C. DAVIS	8
Floor T. EVANS	8
Floor D. LARSON	8

Accidents N.I

Outside Temp. 45

Weather Conditions CLEAR

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick DICK PARADIS	8
Motor DON WYCLIFFE	8
Floor DICK TULPINSKI	8
Floor BEN DORVEL	8

Accidents NIL

Outside Temp. 10°

Weather Conditions WINDY & CLEAR

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	TD 7300										

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS

No. 1	Pressure													
Model	S.P.M.													
	Liner Size													
No. 2	Pressure													
Model	S.P.M.													
	Liner Size													

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface DST #1 7060 - 7300 - M.D. DEV. CORRECTED

Prod. WOR Neutral and Hold Opening Test

Cement Ran 325' water cut mud, 1620 PPM Salt

W.L. F.C. pH. Solids

With Pipe Without Pipe Standby

IHP 3940 - FHP 3940 Tool plugged up last 2 minutes

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	7300			133,000	10	6"	2 3/4	23#			

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
24	8 3/4	REED R 20 T [redacted]		198058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT				8.8	GEL 17 SKS		1 8	
VISCOSITY					DV68 2 GALS		2 0	
GEL							3	
							Light Plant 1-8	
							BOILER HRS. 2	

PUMPS

No. 1	Pressure													
Model	S.P.M.													
250	Liner Size													
No. 2	Pressure													
Model	S.P.M.													
250	Liner Size													

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Water Taken from Pipeline 700 bbls

Service of [redacted] J.W. HENDRICKS — $70.00

Cementing hours

W.L. F.C. pH. Solids

Stands	677220
Singles	3189.
D. Collars	47463
Other Ft.	
C.B. Ft.	560.
Subs. Ft.	775'
Ft. Down on Kelly	30'
TOTAL	7300.

With Pipe Without Pipe Standby

RIG SERVICE & BOPS BLRAMS	10:00	11:00	1/4
FINISH BRK & STAND TOOL BARH'S	5:15	5:15	1.
SLIP & CUT D/LINE 50'	5:15	6:15	1
RAN IN SLOW	6:15	10:00	3 3/4
BRK PIPE	10:00	10:15	1/4
CIRC OUT GAS CIRCHAT	10:15	12:00	3/4

Toteo Ring on Bit No. ..... D.P. Calipered Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher ..... Toolpusher

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company Time ..... Hrs. Approved by ..... Approved by

DATE Feb 18 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 38 LOCATION C-R06 Labiche Fee

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 18 19 71

Rig No. 10 Report No. 38

Day Tour

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
TD	7300				5 / 10	9 / 6	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
1	9⅞	F4 X55R	out	199059	Circ								

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS: 1 14; 2 14; 3 — Oil Added: Save 9.65

Light Plant: 4

BOILER HRS 4

PUMPS: No. 1 Pressure; Model C 250; S.P.M.; Liner Size 5½. No. 2 Pressure; Model C 250; S.P.M.; Liner Size 5½

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL
6777.20	31.89	449.75	5.60	5.65	9.75	25.24	7300

Time Start	Stop	Interval	REMARKS
12:00	9:00	11	Running Velocity Survey
9:00			Tear Out + Lay Down
	9:30	½	Schlumberger Equip.
9:30	6:15	1 3/4	Trip In w/ Bit
6:15	6:45	½	Repair Line Spooler
6:45	8:00	1 1/4	Finish Trip In
			Installed New Hi Chain - Rotary Drive Chain + Rotary Table Chain
			Lost 25 bbls mud To Formation while velocity surveying

With Pipe 11 Without Pipe 1 Standby 12

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller Donald Wig	12
Derrick Donald Charest	9
Motor Donald Struble	8
Floor Joe Chalifoux	8
Floor Maurice Miskosky	9

Accidents Nil

Outside Temp. 10° +

Weather Conditions Clear

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
TD					5 / 10	9 / 6	2¾ / 2¾				
7300											

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
1	9⅞	F4 X55R	out	199059		Circ							

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT			9.4 #/cf	
VISCOSITY			70	
GEL				

Additives: GEL 2400# DYE 3 gal CAUSTIC 150#

At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3 — Oil Added

Light Plant: 8

BOILER HRS. 4

PUMPS: No. 1 Pressure; Model; S.P.M.; Liner Size. No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 8.6 F.C. 2 pH 9.5 Solids

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
6777.20	31.89	449.75	5.60	5.65	7.15		7300

Time Start	Stop	Interval	REMARKS
8:00			Breaking Circ @ 7300'
	9:00	1	+ Wash To Bottom 8' Fill
9:00			Circ Good Mud + Take
	11:00	7	Out Last Circ Mat
			Laydown Equipment
			Pick-up - 7300 - 7360
			Circ @ 7360
			TP - 2400
			SPM - 40
			NP - 1200
			Changed Dies + Fittings = 1 1/2 Rotors

With Pipe 7 Without Pipe 1 Standby 16

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick W.R. Adair	8
Motor C. Dang	8
Floor J. Evans	8
Floor D. Laevern	8

Accidents Nil

Outside Temp. 20 F°

Weather Conditions Clear

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
TD	10	7310		40	5 / 10	9 / 6	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
2A	9⅞	F4 X55R		198038									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.6	9.6	9.6	
VISCOSITY	47	45	45	
GEL				

Additives: At Surveys Degree

MOTOR HOURS: 1 3; 2 —; 3 — Oil Added

Light Plant —

BOILER HRS. —

PUMPS: No. 1 Pressure; Model; S.P.M.; Liner Size. No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Water Truck Hours IN HENDRICKS 8 Hours

Downtime Hours

Desander Hours

W.L. 9.2 F.C. 1/32 pH 11 Solids

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
6777.20	31.89	449.75	5.60	9.65	9.75	27	7310

Time Start	Stop	Interval	REMARKS
4:00	9:15	11½	Core Loss @ 2½ Hrs Out
			Out
2:45	9:00	6¼	Drilled 7310 - 7360
9:00	12:00	3	Hauled In To Test

With Pipe 9 Without Pipe 1 Standby 14

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Tim Martin	12
Derrick [illegible]	8
Motor [illegible]	8
Floor [illegible]	8
Floor [illegible]	8

Accidents Nil

Outside Temp. 20 F°

Weather Conditions Clear

Road Conditions Poor

Totco Ring on Bit No. ..... D.P. Caliphered Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher .....

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company Time ..... Hrs. Approved by ..... Approved by .....

DATE Feb 12 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 12 1971

Rig No. 10 Page No. 37 LOCATION C.P.O.G. LABICHE FOR

Rig No. 10 Report No. 37

From	Footage	To	Hrs. on Bottom	Wt. Drill String - (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7300	Nil										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant 8 | BOILER HRS. 8 | Oil Added: 5 GAL 865

PUMPS: No. 1 Model C 250 — Pressure, S.P.M., Liner Size. No. 2 Model C 250 — Pressure, S.P.M., Liner Size.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. F.C. pH. Solids Cement

Stands 6772.20 | Singles 31.88 | D. Collars 448.75 | Other Ft. 560 | C.B. Ft. | Subs. Ft. 7.75 | Ft. Down On Kelly 38 | TOTAL 7300

REMARKS	Time Start	Stop	Interval
Schlumberger logging well	12:00		
Run Induction log			
S.N.P. log			
B.H.C. log		8:00	8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIE	12
Derrick DONALD CHENET	9
Motor DONALD STRIBLE	8
Floor JOE CHAMPAUX	8
Floor MAURICE MASKOSKY	8

Accidents NIL
Outside Temp. 10°+
Weather Conditions cloudy
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7300 T.D.									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: GEL 200# DYLK 7 gal SAWDUST 50 SK REDWOOD 25K KWIK SEAL 25K CELLO 25K

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant 8 | BOILER HRS. 8 | Oil Added:

PUMPS: No. 1 Pressure, Model, S.P.M., Liner Size. No. 2 Pressure, Model, S.P.M., Liner Size.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. F.C. pH. Solids Cement

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Stop	Interval
LOGGING	5:00	4:00	8

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick J.C. DUNN	8
Motor C. DUNN	8
Floor T. EVANS	8
Floor D. LANDRY	8

Accidents NIL
Outside Temp. 20°
Weather Conditions CLEAR
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7300 T.D.									

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: 10 - Gel 20 Sawdust 1 gal - TUG

At Surveys Degree

MOTOR HOURS: 1 2 | 2 | 3 | Light Plant | BOILER HRS. | Oil Added:

PUMPS: No. 1 Pressure, Model, S.P.M., Liner Size. No. 2 Pressure, Model, S.P.M., Liner Size.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hoses

Desilter Hours J.N. HENDRICKS — $60.00

Desander Hours

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

REMARKS	Time Start	Stop	Interval
Logging	4:00	11:00	7
Running Velocity Survey	11:00	12:00	1

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TOM HARTIN	12
Derrick HOWARD	8
Motor W. MCMOTEN	8
Floor M. TOLPINSKI	8
Floor D. DOUCET	8

Accidents NIL
Outside Temp. 10°+
Weather Conditions CLOUDY
Road Conditions POOR

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE Feb 16 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 36 LOCATION C.P.O.G LAFICHE FOR

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 16 1971

Rig No. 10 Report No. 36

Upper section

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7102	80	7192	7¾	140M	5 10	7" 6	2¾ 2¼				

Stands 67697 Singles — D. Collars 448.75 — Other Ft. 9.24 — C.B. Ft. 5.60 — Subs. Ft. 9.75 — Ft. Down On Kelly 16 — TOTAL 7192

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	8¾	REED	OUT	199859	30	80	7071	7192	121	11½			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	9.1	9.7	8.7
VISCOSITY	45	110	65	60
GEL	4	6	8	5

Additives: Water — Sawdust 25 sks — Caustic 100 # — CFL - 1000° — Resin - 2 sks

At Surveys Degree: 7070 9½ — S-86-W

MOTOR HOURS: 1 8 — 2 8 — 3 — Light Plant 8 — BOILER HRS 8

Oil Added: Sacks 8.65

PUMPS														
No. 1	Pressure	550	550	550	550	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
Model 25	S.P.M.	60	60	60	60	5½	1½	8	865		—	—		
	Liner Size	5½	5½	5½	5½									
No. 2	Pressure													
Model	S.P.M.													
	Liner Size													

Casing Record: Surface — Prod. — Cement

W.L. — F.C. — pH. — Solids

Stands 67220 — Singles 3186 — D. Collars 448.75 — Other Ft. 9.24 — C.B. Ft. 5.60 — Subs. Ft. 7.75 — Ft. Down on Kelly 18 — TOTAL 7300

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	8¾	K55SR	OUT	198058	30M	80	7071	7300	229	19			

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	8.8	8.8
VISCOSITY				
GEL				

Additives: CFL 1500° — Caustic 250 — Cello 5 sk — 35 sk — Redwood Fiber 4 sk — Delco Seal 1 sk Kwik 25 sk — Poly Seal 1 sk Sawdust 90 sk

At Surveys Degree: 7070 9½ — S-86-W

MOTOR HOURS: 1 8 — 2 8 — 3 — Light Plant 8 — BOILER HRS. 8

Oil Added: Sacks 1322 — 865

PUMPS														
No. 1	Pressure	550	550	550	550	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
Model P	S.P.M.					5½								
	Liner Size	5½												
No. 2	Pressure													
Model	S.P.M.													
	Liner Size	5½												

Casing Record: Surface — Prod. — Cement

W.L. 9.4 F.C. 2 pH 9.8 Solids

Stands 67220 — Singles 3189 — D. Collars 448.75 — Other Ft. 5.60 — C.B. Ft. 12¼ — Subs. Ft. 7.75 — Ft. Down on Kelly 18 — TOTAL 7300

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	8¾	K55SR	OUT	198058			7071	7300	229	19			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.8	8.8		
VISCOSITY	50	62		
GEL				

Additives: Gel — 1 sk — Caustic - 3 sk.

At Surveys Degree:

MOTOR HOURS: 1 8 — 2 8 — 3 — Light Plant 8 — BOILER HRS. 8

Oil Added:

PUMPS														
No. 1	Pressure	550	550			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
Model P	S.P.M.	60	60											
	Liner Size	5½												
No. 2	Pressure													
Model	S.P.M.													
	Liner Size	5½												

Water Truck Hours: J.H. HENDRICKS — $60.00

Desilter Hours:

Desander Hours:

W.L. 9.4 F.C. 2 pH 9.8 Solids

Remarks

REMARKS	Time Start	Time Stop	Time Interval
Drlg 8¾ Hole	12:00	12:45	¾
Rig Serv @ Hydril	12:45	1:00	¼
Drlg 8¾ Hole - 30 MM wob	1:00	5:00	7
Circ & Cond Mud for Logging Out			
Mud			

With Pipe — Without Pipe — Standby

Rig Service & Bops	8:00	8:15	¼
Motor Kills OK.	8:15	3:30	7¼
Drlg 8 ¾" Hole	3:30	3:45	¼
Circ & Cond. Mud To Log	3:45	4:00	¼

With Pipe — Without Pipe — Standby

Lost 40 bbls mud to Formation

Rig Service & Bops	4:00	4:15	¼
Circ & Cond. mud To Log	4:15	6:30	2¼
Hoist To Log w/ Tool #2	6:30	10:15	3¾
RU to Log Logging	10:15	10:45	½
	10:45	12:00	1¼

With Pipe — Without Pipe — Standby 8

D.P.'s Tally 7300

Strap Tally 7295.96

No Change

Tour — Midnight - 8 a.m.

Specify actual hours worked.

	Hrs.
Driller DONALD VIS	12
Derrick DONALD CABBOT	8 11
Motor DONALD STRUBLE	8 11
Floor JOE CHARLEAUX	8
Floor MAURICE MISHASKY	8

Accidents N.I

Outside Temp. 15° F

Weather Conditions Cloudy

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.

	Hrs.
Driller	
Derrick W.K. HOAIL	8
Motor P. DANA	8
Floor T. EVANS	8
Floor DALE LOEWEN	8

Accidents N.I

Outside Temp. 15° F

Weather Conditions WINDY & CLEAR

Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.

	Hrs.
Driller TIMOTHY	8
Derrick JOE JUALIA	8
Motor IRV CHOPEN	8
Floor PAT TULLOCH	8
Floor EARL DENVER	8

Accidents N.I

Outside Temp. 5° F

Weather Conditions CLEAR & WINDY

Road Conditions POOR.

Toteo Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE Feb 18 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 38 LOCATION C.P.O.G Labiche F08

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	Bbls.	WATER Gals.	Bbls.	CRUDE Gal.	Bbls.
TD	7300				5	8	2¼							
					10	6	2⅜							

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	9¾	RX55R	out	198058		Circ							

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 4	
VISCOSITY							2 4	Sars
GEL							3	8.65
							Light Plant 4	
							BOILER HRS. 4	

PUMPS												
No. 1	Pressure			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.												
C 250	Liner Size	5½											
No. 2	Pressure												
Model	S.P.M.			Casing Record	Surface								
C 250	Liner Size	5½			Prod.								

W.L. F.C. pH. Solids Cement

Stands	6772.20
Singles	3188
D. Collars	449.75
Other Ft.	
C.B. Ft.	560
Subs. Ft.	7.75
Ft. Down on Kelly	23.4
TOTAL	7300

REMARKS	Time Start	Stop	Interval
Running Velocity Survey	12:00	4:00	4
Tear Out + Lay Down Schlumberger Equip	4:00	4:30	½
Trip In w/ Bit	4:30	6:15	1 ¾
Repair Line Spooler	6:15	6:45	½
Finish Trip In	6:45	8:00	1 ¼
Installed New Hi Chain - Rotary Drive Chain + Rotary Table Chain			
Lost 25 bbls mud To Formation while velocity surveying			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	Bbls.	WATER Gals.	Bbls.	CRUDE Gal.	Bbls.
TD	7300				5	8	2¼							
					10	6	2⅜							

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	9¾	RX55R	OUT	198058		Circ							

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			9.4	9.7	GEL 2400#		1 8	
VISCOSITY			70	60	DV 68 3 gal		2 8	
GEL					CAUSTIC 150#		3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS												
No. 1	Pressure			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.			Casing Record	Surface								
	Liner Size				Prod.								

W.L. 9.6 F.C. 2 pH. 8.5 Solids Cement

Stands	6772.20
Singles	31.99
D. Collars	449.75
Other Ft.	5.60
C.B. Ft.	8.65
Subs. Ft.	7.75
Ft. Down on Kelly	
TOTAL	7300

REMARKS	Time Start	Stop	Interval
Breaking Circ @ 7200' + Wash To Bottom 8' Fill	8:00	9:00	1
Circ Cond Mud + Take Out Last Circ Mat	9:00	11:00	7
LOGGING PROGRAM:			
DIL - 4730 - 7300			
BHCGRS-CAL 4730-7300			
FDC - HRD			
SNP SRS			
Changed Oil + Filters # 172 Motors			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	Bbls.	WATER Gals.	Bbls.	CRUDE Gal.	Bbls.
TD	7300			140 000	10	6"	2¾							

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	9¾	RX55R		198058									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.6	8.6	8.6				1 5	
VISCOSITY	67	65	70				2 5	
GEL							3	
							Light Plant 7 6	
							BOILER HRS. 6	

PUMPS												
No. 1	Pressure			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.			Water Truck Hours	J.N. HENDRICKS				$60.00				
	Liner Size			Pusher Hours	J-Z [illegible] RICKS # 75								
				Dispatcher Hours									

W.L. 9.8 F.C. 2/32 pH. 9.5 Solids

Stands	6772.20
Singles	3.99
D. Collars	449.75
Other Ft.	5.60
C.B. Ft.	8.65
Subs. Ft.	7.75
Ft. Down on Kelly	23
TOTAL	7300

REMARKS	Time Start	Stop	Interval
CIRC Loss CIRC MAT OUT	4:00	8:45	4¾
DROPPED SURVEY @ 7300	8:45	9:00	¼
HOISTING P. TO TEST.	9:00	12:00	3

With Pipe Without Pipe Standby

DATE Feb 18 19 71

Rig No. 10 Report No. 38

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	12
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKESKY	8

Accidents NIL
Outside Temp. 10°+
Weather Conditions Clear
Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick W.R. Adair	8
Motor C. Dana	8
Floor J. Evans	8
Floor D. Loewen	8

Accidents NIL
Outside Temp. 20 T°
Weather Conditions CLEAR
Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	12
Derrick [illegible]	8
Motor M. WICHOREK	8
Floor [illegible]	8
Floor BEN. DRUVER	8

Accidents NIL
Outside Temp. 20 T°
Weather Conditions CLEAR
Road Conditions POOR

Torco Ring on Bit No. ..... P.P. Collapsed Data ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher .....

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company Time ..... Hrs. Approved by ..... Approved by .....

DATE Feb 17 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 37 LOCATION C.P.O.G LABICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 17 19 71

Rig No. 10 Report No. 37

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7300	Nil										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

LOG

Additives

At Surveys Degree

MOTOR HOURS: 1 — 9; 2 — 8; 3 — ; Light Plant 8; BOILER HRS. 8

Oil Added: Jars 96S

PUMPS: No. 1 Model C 250 — Pressure, S.P.M., Liner Size; No. 2 Model C 250 — Pressure, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands 6772.20; Singles 31.88; D. Collars 448.75; Other Ft. 560; C.B. Ft. ; Subs. Ft. 7.75; Ft. Down On Kelly 28.75; TOTAL 7300

REMARKS	Time Start	Stop	Interval
Schlumberger Logging Well	12:00		
Ran Induction Log			
S.N.P Log			
B.H.C Log		8:00	8

With Pipe Without Pipe Standby

LOGGING	8:00	4:00	8

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD DIG	12
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL

Outside Temp. 10°+

Weather Conditions cloudy

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick W.K. ADAIR	8
Motor C. DANA	8
Floor T. EVANS	8
Floor D. LOEWEN	8

Accidents Nil

Outside Temp. 20+

Weather Conditions CLEAR.

Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7300	T.D.										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: CEL 2000# ; DV 68 2 gal ; SAWDUST 50 SK ; REDWOOD 2 SK ; KWIK SEAL 2 SK ; CELLO 2 SK

At Surveys Degree

MOTOR HOURS: 1 — 9; 2 — 9; 3 — ; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS: No. 1 — Pressure, Model, S.P.M., Liner Size; No. 2 — Pressure, Model, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands; Singles; D. Collars; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Down on Kelly; TOTAL

REMARKS	Time Start	Stop	Interval
EXTRA HAS UNLOAD PHONE			
@ AIR STRIP			

With Pipe Without Pipe Standby

LOGGING	4:00	11:00	7
RUNNING Velocity Survey	11:00	12:00	1

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller JIM. MARTIN	12
Derrick AMALIA	8
Motor M. WYCHOPEN	8
Floor DICK TULPINSKI	8
Floor BEN. DORVEL	8

Accidents Nil

Outside Temp. 10+

Weather Conditions CLEAR.

Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7300	T.D.										

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: 10- Gel ; 20 Sawdust ; 1 gal - TU68

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 — ; Light Plant 1/2; BOILER HRS. 8

Oil Added

PUMPS: No. 1 — Pressure, Model, S.P.M., Liner Size; No. 2 — Pressure, Model, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.P. HENDRICKS LTD

Desilter Hours: J.N. HENDRICKS — $60.00

Desander Hours

W.L. F.C. pH. Solids

Stands; Singles; D. Collars; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Down on Kelly; TOTAL

With Pipe Without Pipe Standby

Toolpusher Tony Lavoie

Approved by H.E. Efield

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs.

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE Feb 16 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 36 LOCATION C.P.O.G LACICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Infosmation Here

DATE Feb 16 1971

Rig No. 10 Report No. 36

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	12
Derrick DONALD CHABOT	8 11
Motor DONALD STRUBLE	8 11
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL
Outside Temp. 15° +
Weather Conditions Cloudy
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick W. R ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor DALE LOEWEN	8

Accidents NIL
Outside Temp. 15° +
Weather Conditions WINDY & CLEAR
Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	12
Derrick NICK ANTALIA	8
Motor M. WYCHOPEN	8
Floor NICK TULPINSKI	8
Floor BEN. DORVEL	8.

Accidents NIL
Outside Temp. 5° +
Weather Conditions CLEAR & WINDY.
Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7102	80	7182	7¾	140M	5 / 10	7" / 6"	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	8¾	RR55R	OUT	198059	50	80	7071	7182	101	11¾			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.6	8.7	8.7	8.7
VISCOSITY	98	110	65	60
GEL	4/4	8.8	8.5	8.5

Additives: Water; SAWDUST 25 SKS; CAUSTIC 100#; BEL-1000#; BENEX - 2 SKS

At Surveys Degree: 7070 9½ S-86-W

MOTOR HOURS: 1: 8; 2: 8; 3:

Oil Added: Jars 9.65

Light Plant: 8

BOILER HRS. 8

PUMPS						
No. 1	Pressure	550	550	550	525	
Model 250	S.P.M.	60	60	60	60	
	Liner Size	5½	5½	5½	5½	
No. 2	Pressure					
Model	S.P.M.					
	Liner Size					

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1⅛	6½	9	965		—		—		

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 1676.97 | Singles | D. Collars 448.75 | Other Ft. 9.24 | C.B. Ft. 5.60 | Subs. Ft. 7.75 | Ft. Down On Kelly 16 | TOTAL 7182

Time	Start	Stop	Interval
Drlg 8¾ Hole	12:00	12:45	¾
Rig Serv @ Hydril	12:45	1:00	¼
Drlg 8¾ Hole - 30M WOB	1:00	8:00	7
EXTRA HRS hooking out Mud			

With Pipe 8¾ Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7182	118	7300.	7¼	140,000	5 / 10	7" / 6"	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	9¾	RR55R	OUT	198059	50M	90	7071	7300	229	19.			

MUD	5 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	8.8	8.8
VISCOSITY				
GEL				

Additives: GEL 1500#; CAUSTIC 250# (BENEX 3 SK); CELLO 5 SK (3 SK); S-86-W; RED WOOD FIBER 4 SK; PALCO SEAL 6 SK KWIK 3 SK; POLY SEAL 1 SK SAWDUST 90

At Surveys Degree: 7070 9½ S-86-W

MOTOR HOURS: 1: 8; 2: 8; 3:

Oil Added: JARS 8.65

Light Plant: 8

BOILER HRS. 8.

PUMPS						
No. 1	Pressure	550	550	550	550	
Model 2½	S.P.M.					
	Liner Size	5½				
No. 2	Pressure					
Model 2½	S.P.M.					
	Liner Size	5½				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 9.4 F.C. 2 pH. 9.8 Solids

Stands 7220 | Singles 3188 | D. Collars 448.75 | Other Ft. 7.24 | C.B. Ft. 5.60 | Subs. Ft. 7.75 | Ft. Down on Kelly 18 | TOTAL 7300

Time	Start	Stop	Interval
RIG SERVICE & BOPS	8:00	8:12	¼.
MOTOR KILLS OK.	8:12	3:30	7¼.
DRLG 8¾" HOLE	3:30	4:00	½.
CIRC & CON. MUD TO LOG			
Lost 40 bbls mud to Formation			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7300		140,000	5 / 10	7" / 6"	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
24	9¾	RR55R	OUT	198058			7071	7300	229	19.			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.4	8.8		
VISCOSITY	50	62		
GEL				

Additives: GEL - 20 SK; BENEX - 3 SK.

At Surveys Degree: 7070 9½ S-86-W

MOTOR HOURS: 1: 8; 2: 8; 3:

Oil Added: JARS 8.65

Light Plant: 8

BOILER HRS. 8.

PUMPS						
No. 1	Pressure	550	550			
Model	S.P.M.	60	60			
	Liner Size	5½				
No. 2	Pressure					
Model	S.P.M.					
	Liner Size	5½				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.W. HENDRICKS — $60.00

Desilter Hours

Desander Hours

W.L. 9.4 F.C. 2 pH. 9.8 Solids.

Stands 7220 | Singles 3188 | D. Collars 448.75 | Other Ft. 3.60 | C.B. Ft. 724. | Subs. Ft. 7.75 | Ft. Down on Kelly 18 | TOTAL 7300

Time	Start	Stop	Interval
RIG SERVICE & BOPS	4:00	4:15	¼.
CIRC & CON. MUD TO LOG.	4:15	6:30	2¼.
HOIST TO LOG & STRAP PIPE	6:30	10:15	3¾.
RIG UP TO LOG LOGING	10:15	10:45	½.
	10:45	12:00	1¼.
			9.

DRLG TALLY 7300
STRAP TALLY 729596
NO CHANGE

With Pipe Without Pipe Standby

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Jerry Lowe

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Toolpusher Jerry Lowe

Approved by E.E. Spratt.

DATE Feb 15 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 35 LOCATION C.P.O.G LABICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 15 19 71

Rig No. 10 Report No. 35

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL 5-5 Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7001	30	7031	4	139 M	5 / 10	4 / 6	2 1/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	RRG 7X5	OUT	99134	25-30	80	6729	7029	302	32 1/4		23	1 1/2 RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.6	9.6		9.5
VISCOSITY	55	68	105	48
GEL				

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure		525	525	550
Model 250	S.P.M.		60	60	60
	Liner Size		5 1/2	5 1/2	5 1/2
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size				

W.L. F.C. 7/32 pH. 9.0 Solids

Additives: Water
GEL 7000 #
BENEX 14 SKS
REDWOOD FOR. 6 SKS
KWIK SEAL (COARSE 10 Med 5 F 5)
CAUSTIC 100#

At Surveys Degree

MOTOR HOURS	Oil Added
1 8	
2 8	Jars
3	8.65
Light Plant 8	
BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	5 1/2	4	7.5		—	—		800

Casing Record: Surface
Prod.
Cement

Stands 6489.19
Singles 31.80
D. Collars 448.75
Other Ft. 7.24
C.B. Ft. 5.60
Subs. Ft. 7.75
Ft. Down On Kelly 34
TOTAL 7031

REMARKS	Time Start	Stop	Interval
Circ - Build Volume & Cond	12'00		
Mud - 200 Bbls.		2'00	2
Run In Stds & Break Circ	2'00	2'30	1/2
Rig Serv @ Hydril	2'30	2'45	1/4
Drlg 8 3/4 Hole	2'45	3'00	1/4
Repair Hi Chain In Drwoks	3'00	4'15	1 1/4
Drlg 8 3/4 Hole	4'15	8'00	3 3/4

With Pipe 7 1/2 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	12
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL
Outside Temp. 5°F
Weather Conditions Cloudy
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7031	40	7071	3 1/2	146000	5 / 10	4 / 6	2 1/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	RRG 7X5	OUT	99134	25-30	80	6729	7071	342	35 1/2			

MUD	8 a.m.	10 a.m.	12 p.m.	p.m.
WEIGHT				9.6
VISCOSITY				90
GEL				

PUMPS		8 a.m.	10 a.m.	12 p.m.	p.m.
No. 1	Pressure	525	525		
Model E 250	S.P.M.	60	60		
	Liner Size	5 1/2	5 1/2		
No. 2	Pressure				
Model D 250	S.P.M.				
	Liner Size				

W.L. 9.4 F.C. pH. 9.0 Solids

Additives: Water
KWIK SEAL - 15 SK.
GEL — 25 SK.
CAUSTIC — 45 SK.
BROKE — 5 SK.

At Surveys Degree: 7070 9 1/2 — S-86+W.

MOTOR HOURS	Oil Added
1 8	
2 8	Jars
3	8.65
Light Plant 8	
BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/4								

Casing Record: Surface
Prod.
Cement

Stands 6582.39
Singles 31.80
D. Collars 448.75
Other Ft. 7.24
C.E. Ft. 5.60
Subs. Ft. 7.75
Ft. Down on Kelly 1/4
TOTAL 7071.

REMARKS	Time Start	Stop	Interval
Rig Serv - 4 1/2 Rams &	8'00		
Motor Shut Off		8'15	1/4
Drlg 8 3/4 Hole	8'15	10'45	2 1/2
Survey @ 7070 - S-86-W	10'45	11'30	3/4
DRLG 8 3/4 HOLE	11'30	12'30	1
HOIST TO CHANGE BIT.	12'30	4'00	3 1/2
			8.

Damaged Sperry Sun Survey Barrel

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller	
Derrick W.R. ADAIR	12
Motor J. DANA	12
Floor J. EVANS	12
Floor DALE LOEWEN	12

Accidents
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
7071	31	7102	4	140,000	5 / 10	7" / 6"	2 7/8 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	24	8 3/4	RR55R	—	198659	25-30 M	80	7071	7102	31	4			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.7	9.7	9.7	
VISCOSITY	90	85	80	
GEL				

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	550	550	550	
Model D 250	S.P.M.	60	60	60	
	Liner Size				
No. 2	Pressure				
Model D 250	S.P.M.				
	Liner Size	5 1/2			

W.L. 9.4 F.C. 2 pH. 9.0 Solids.

Additives: KWIKSEAL 13 SK
PALCO SEAL 2 SK
CLEANED SHAKER TANK

At Surveys Degree

MOTOR HOURS	Oil Added
1 8	
2 8	JARS
3	8.65
Light Plant 8	
BOILER HRS. 8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J P HENDRICKS 5 60
Desilter Hours: J.N. HENDRICKS — $80.00
Desander Hours:

Stands 6582.39
Singles 31.80
D. Collars 448.75
Other Ft. 7.24
C.B. Ft. 5.60
Subs. Ft. 7.75
Ft. Down on Kelly 32.00
TOTAL 7102

REMARKS	Time Start	Stop	Interval
RIG SERVICE & BOPS & RAMS	4'00	4'15	1/4.
LAY DOWN CORE BBL.	4'15	5'15	1.
RAN IN HOLE	5'15	7'45	2 1/2
BRK CIRC & CLEAN 2' FILL	7'45	8'00	1/4.
TO BTM.			
DRLG 8 3/4" HOLE	8'00	12'00	4
EXTRA HRS TRANSPORTING MUD AND LOAD OUT WT MATERIAL			8

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	12
Derrick E. AMALIA	8
Motor M. WYCHOPEN	8
Floor RICK TULPINSKI	10
Floor BEN DORVEL	10.

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Totco Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Tony Loewen

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by H.E. Splitt

DATE Feb 14 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No 34 LOCATION C.P.O.G. LA BICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 14 19 71

Rig No. 10 Report No. 34

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6912	70	6982	7	138M	5 / 10	9" / 6"	2 1/4 / 2 3/4		6"		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	RR67J5	OUT	99134	30-35	80	6929	6982	253	26 1/4	23	1 1/2	RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.8	8.8	8.8
VISCOSITY	60	53	50	48
GEL	Ph 9.5	Ph 9.0		8.5

Additives WATER
Caustic 100 #
Gel - 2000 #
Benex - 4 Sks.

At Surveys Degree: 6947 10½ S 85 W

MOTOR HOURS: 1 — 8; 2 — 8; 3 — Save 8½

Oil Added

Light Plant 8

BOILER HRS. 9

PUMPS

	No. 1	No. 2
Pressure	575	575	575	575				
Model	250	250	250	250				
S.P.M.	60	60	60	60				
Liner Size	5½	5½	5½	5½	5½			

Dump & clean 1st setting TANK
Loosing 2 bbls per hr To Formation

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1⅛	5½	8	715					

Casing Record: Surface; Prod.

Cement

W.L. 9.0 F.C. 2/32 pH. 9.5 Solids

Stands 6147.19
Singles
D. Collars 448.75
Other Ft. 7.24
C.B. Ft. 5.60
Subs. Ft. 7.75
Ft. Down On Kelly 6.92
TOTAL 6982

REMARKS	Time Start	Stop	Interval
Rig Serv @ Hydril by	12:00		
Remote Control		12:15	1/4
Drlg 8¾ Hole - 30M WOB	12:15	3:30	3¼
Survey @ 6947 - 10½° S85-W	3:30	4:15	¾
Drlg 8¾ Hole - 25M W.O.B.	4:15	8:00	3¾

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CANBOT	8
Motor DONALD STROBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents Nil
Outside Temp. 20° +
Weather Conditions Clear
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6982	Ft'	7001	2	138,000	5 / 10	9" / 6"	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8¾	RR67J5		99134		80	6929	7001	[illegible]	[illegible]	23	1½	RUNNING

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.4			
VISCOSITY	55			
GEL				

Additives GEL 1000#
BARITE 300# BENEX 15 SAX
SAWDUST 500 SAX
REDWOOD 40 SAX
KWIKSEAL 25 SAX (CELLO 6 SAX)
DALCO SEAL 10 SAX

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —

Oil Added

Light Plant 8 3/4

BOILER HRS. 8

PUMPS

	No. 1	No. 2
Pressure	550	
Model	67	
S.P.M.		
Liner Size		

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 9.2 F.C. 2 pH. 10.0 Solids

Stands 6448.19
Singles
D. Collars 448.75
Other Ft. 7.24
C.B. Ft. 5.60
Subs. Ft. 7.75
Ft. Down on Kelly 25
TOTAL 7001.

With Pipe	Without Pipe	Standby		
Drilling 8¾ Hole	8:00	10:00	2	
Loosing Circ - Mix + Lost	10:00			
Circ Mat + Pumping Down		1:00	3.	
NO RETURNS.				
MIX MUD + LOSS OF CIRC	1:00	4:00	3.	
MAT.				
LOST CIRC AT 7001'				
PUMP DOWN 400 BBLS MUD)				

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	4
Derrick V. R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor DALE LOAWEN	8

Accidents N.A.
Outside Temp. 25 +
Weather Conditions CLEAR
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		7001	~	138,000	5 / 10	9" / 6"	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8¾	RR67J5	—	99134									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives GEL 75 SAX.
[illegible] x.
SAWDUST = 96 SAX
BEN-EX = 13 SAX.

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS

	No. 1	No. 2
Pressure		
Model	7 3	
S.P.M.		
Liner Size	5 1/2	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: REDWOOD = [illegible] SAX (DALCO SEAL = 7 SAX)
Desilter Hours: CELLO = 11 SAX
Desander Hours: KWIKSEAL = 15 SAX

W.L. F.C. pH. Solids

Stands 6448.19
Singles
D. Collars 448.75
Other Ft. 7.24
C.B. Ft. 5.60
Subs. Ft. 7.75
Ft. Down on Kelly 25
TOTAL 7001.

With Pipe	Without Pipe	Standby		
MIX MUD + LOSS CIRC MAT.	4:00	9:15	5¼.	
TRIP OUT 6 STANDS.	9:15	9:45	½.	
PUMP 350 BBLS. - RETURNS.	9:45	10:15	½.	
TO SURFACE				
CIRC + MIX MUD.	10:15	12	1¾	
			8.	
EXTRA HRS MIXING LOSS CIRCULATION MATERIAL W.O.C.				
LOST CIRC @ 9001				

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	12
Derrick RICK AMALIA	12
Motor M. WYCHERN	12
Floor RICK. TULINSKI	8.
Floor BEN DORVEL	8.

Accidents N.L.
Outside Temp. 5° +
Weather Conditions CLOUDY
Road Conditions POOR.

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE FEB 13th 1971

NABORS DRILLING LIMITED

Rig No. 10. Page No. 33. LOCATION C P O G 1A - BIGHE FOR

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 13th 1971

Rig No. 10. Report No. 33.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6740	26	6766	4 1/2	136000	10	6"	2 3/8		5 1/2 Gals.		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	RRGTXJ	-	99134	25	75	6729	6766	37'	5	23	1 1/2	Running

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT			8.9	
VISCOSITY			39	50
GEL				

PUMPS						
No. 1	Pressure			500		
Model 2 5/8	S.P.M.			60		
	Liner Size	5 1/2				
No. 2	Pressure					
Model 2 5/8	S.P.M.					
	Liner Size	5 1/2				

Additives: 45 SKS. GEL, 9 SKS. BENEX

At Surveys Degree

MOTOR HOURS: 1 — 8, 2 — 8, 3 —, Light Plant 8, BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface, Prod.

Cement

W.L. F.C. pH. Solids

Stands 620583 | Singles 62.12 | D. Collars 448.75 | Other Ft. 7.24 | C.B. Ft. 5.60 | Subs. Ft. 7.75 | Ft. Down On Kelly 21 | TOTAL 6766

REMARKS	Time Start	Stop	Interval
FINISH OUT & LAY DOWN OTIS SUB & JETS OUT OF BIT	12 00	12 45	3/4
RIG SER CHECK BOPS	12 45	1 00	1/4
RAN IN SLOW	1 00	3 15	2 1/4
BRK CIRC (NO FILL)	3 15	3 30	1/4
DRLG 8 3/4" HOLE.	3 30	8 00	4 1/2
			8

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick NICK AMALIA	8
Motor M. WYCHOPEN	8
Floor DICK TULPINSKI	8
Floor BEN DORUEL	8.

Accidents NIL

Outside Temp. 5° + 0

Weather Conditions

Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6766	56	6822	6 3/4	137M	10	6	2 3/4				Est.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	RRGTXJ	OUT	99134	25	75	6729	6822	93	11 3/4	23	1 1/2	Rerun

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	54	80	65	
GEL	9.0	Ph 10		

PUMPS						
No. 1	Pressure	550	550	550	550	
Model C 250	S.P.M.	60	60	60	60	
	Liner Size	5 1/2	5 1/2	5 1/2	5 1/2	
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	5 1/2				

Additives: Water, Gel - 1500#, Bcaex - 3 SKS, Caustic - 100#, Redwood 4# 4 SKS. SAWDUST 20 SK, 4 gal per Bbl of Loss Circ. Mat.

At Surveys Degree: 12 1/2° 6791, S-86-W

MOTOR HOURS: 1 — 8, 2 — 8, 3 —, Light Plant 8, BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	5 1/2	8	715					850

Casing Record: Surface, Prod.

Cement

W.L. 8.6 F.C. 2/32 pH. 10.0 Solids

Stands 633.59 | Singles 8.65 | D. Collars 448.75 | Other Ft. 7.24 | C.B. Ft. 5.60 | Subs. Ft. 7.75 | Ft. Down on Kelly 12 | TOTAL 6822

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 Hole	9:00	10:00	2
Rig Serv - Pipe Rams & Motor Shutoffs	10:00	10:15	1/4
Drlg 8 3/4 Hole	10:15	2:30	4 1/4
Survey @ 6822 - 12 1/2°	2:30	3:30	1
Drlg 8 3/4 Hole	3:30	4:00	1/2
Survey - [redacted] 12 1/2° - S-86-W			
Loosing 9-10 bbls mud to formation per hr			

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHARLEBOIS	8
Floor MAURICE MISNOSKY	8

Accidents NIL

Outside Temp. 25° +

Weather Conditions Windy

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6822	90	6912	7 3/4	138M	10	6	2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	23	8 3/4	REGTXJ	OUT	99134	30	80	6729	6912	183	19 1/4	23	1 1/2	Run

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.8	8.8	8.9	8.8
VISCOSITY	55	51	48	53
GEL				

PUMPS						
No. 1	Pressure	500	575	575	575	
Model	S.P.M.	56	60	60	60	
	Liner Size					
No. 2	Pressure					
Model	S.P.M.					
	Liner Size					

Additives: GEL 4200#, BENEX 8 SAX, CAUSTIC 50#, Sawdust 25 SKS Kmax 2 SAX, REDWOOD 3 SAX Cleaned Suction Tank

At Surveys Degree

MOTOR HOURS: 1 — 8, 2 — 8, 3 —, Light Plant 8, BOILER HRS. 8

Oil Added: JARS 8.65

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	5 1/2	8	715		7	—		@ 800

Water Truck Hours: J. HENDRICKS $80

Desilter Hours: J.N. HENDRICKS

Desander Hours

$80.00

W.L. 8.6 F.C. 3/32 pH. 9.5 Solids

Stands 639.48 | Singles | D. Collars 448.75 | Other Ft. 7.24 | C.B. Ft. 5.60 | Subs. Ft. 7.75 | Ft. Down on Kelly 39 | TOTAL 6912

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 Hole	4 00	6 15	2 1/4
Rig SER & HYDRIL	6 15	6 30	1/4
Drlg	6 30	12 00	5 1/2
			8 hrs

LOST 6 bbls PER HOUR FOR 8 HRS = 48 BBLS

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents NIL

Outside Temp. 10°

Weather Conditions CLEAR

Road Conditions POOR

Toolpusher Tony Loewen

Approved by H.C. [illegible]

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE FEB 12 1971

NABORS DRILLING LIMITED

Rig No. 10 · Page No. 32 · LOCATION GROG LA - 13 CHILE FOB

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 12 1971

Rig No. 10 · Report No. 32

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6706	15'	6721	3	136,000	10	7"	2 3/4		3'11" Gals.	Bbls.	Gal. Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg	Hrs.	Ft.Reamed	Hrs.	COND.
10	6 3/16	CHRIS	—	EC1014	10,000	60	6706	6721	15'	3			Run Nozzles

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			8.7	8.7	WATER "LAZY S" Rec 6706	13 1/4	1 8	
VISCOSITY			42	43	S 82 W		2 8	
GEL					GEL #10 SAX		3	
PUMPS No. 1 Pressure				700	BENEX #2 SAX		Light Plant 8	
Model 250 S.P.M.				40			BOILER HRS. 8	
Liner Size 5 1/2					Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool			Next Slip
No. 2 Pressure					Casing Record Surface			
Model S.P.M.					Prod.			
Liner Size					Cement			

W.L. 10.2 F.C. 2/32 pH 9.5 Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL
61.2414		4+1 975'	1220	6342	821	29'	6721.

TIME Start	Stop	Interval	REMARKS
12:00	12:30	1/2	FINISH TRIP OUT & STRAP
12:30	12:45	1/4	RIG SER & BOPS
12:45	1:15	1/2	PICK UP CORE BBL & TAKE.
1:15	4:45	3	RAN IN HOLE
4:45	4:45	1/2	FIRE CORE BBL.
4:45	5:00	1/4	DROP BALL & PUMP SAME
5:00	8:00	3.	CUT 0 CORE #2
			(CHECK SUB VALVE ON END OF KELLY) (PICK UP TIW SUB) (OK.)

Tour — Midnight - 8 a.m. Specify actual hours worked	Hrs.
Driller TIM MARTIN	8
Derrick DICK AMALIA	8
Motor M. WYCHOPEN	8
Floor DICK TULPINKI	8
Floor BEN DORVEL	8

Accidents N.I.L
Outside Temp. 20+
Weather Conditions CLEAR.
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6721	8	6729	1/2	136 000	8 10	9 6	2 1/4 2 1/4		Gals.	Bbls.	Gal. Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
10	6 3/16	CHRIS	—	EC1014	10 000	60	6706	6721	15'	3 1/2			Good
23	8 3/4	RR67XS	3/13	99134									
		CORE #2		6706 - 6729 - CUT 23'					REC 19'				

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives WATER	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT					GEL 24 00#		1	
VISCOSITY					BENEX 4 SKS		2	
GEL					CAUSTIC 50#		3	
PUMPS No. 1 Pressure	700				SAWDUST 8 SKS PALCO 5 SKS		Light Plant	
Model S.P.M.	40				RED FIBRE 3 SKS 4 SKS		BOILER HRS.	
Liner Size 5 1/2					Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool			Next Slip
No. 2 Pressure					Casing Record Surface Lost 300 bbls mud			
Model 250 S.P.M.					Prod.			
Liner Size					Cement Lost Circ @ 6727			

W.L. F.C. pH Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL
6205.83		448.75	9.24	560	9.75	30	

TIME Start	Stop	Interval	REMARKS
			With Pipe / Without Pipe / Standby
8:00			Cutting Core #2 Bbl
	8:30	1/2	Reaming
8:30	11:00	2 1/2	Trip Out w/ Core #2
11:00			Recover Core + Serv. 9
	12:00	1	Stand Back Core Bbl
12:00			Rig Serv - Blind Rams +
	12:15	1/4	Motor Shutoffs
12:15			Trip In w/ Bit - No Mud
	2:30	2 1/4	Returns, Lost Circ on Trip In
2:30			Check B.O.P. Equip + Mix
	4:00	1 1/2	Lost Circ Mat.
			With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m. Specify actual hours worked	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	10
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	10
Floor MAURICE MISKOSKY	10

Accidents N.I
Outside Temp. 30°+
Weather Conditions Cloudy + Snow
Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6729	11	6740	1/2	135 000	8 10	7 6	2 1/4 2 1/4		Gals.	Bbls.	Gal. Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
23	8 3/4	RR67XS	3-13	99134	25	75	6729	6740	11	1/2	25	1/2	
				Reamed	80		6706	6729			23	1 1/2	

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives GEL 6500#	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.6	8.6	8.7		CAUSTIC 100# BENEX 12 SKS		1 8	
VISCOSITY		37	45		SAWDUST 100 SAX		2 8	
GEL					KWIKSEAL 4 SAX		3	
PUMPS No. 1 Pressure					Lost 220 bbls		Light Plant 8	
Model S.P.M.					PALCO 6 SAX REDWOOD REAM		BOILER HRS. 8	
Liner Size					Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool			Next Slip
No. 2 Pressure					Water Truck Hours J. P. HENDRICK S/T			
Model S.P.M.					Desilter Hours J. K. HENDRICKS		#1560	
Liner Size					Desander Hours			

W.L. F.C. pH 9.5 Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
6205.83	30.60	448.75	7.24	560	7.75	32	6740

TIME Start	Stop	Interval	REMARKS
			With Pipe / Without Pipe / Standby
4:00	4:30	1/2	Pump Down 160 bbls.
4:30	6:00	1 1/2	Ream 6 3/4 to 8 3/4
6:00	6:15	1/4	R.g Serv. 4 1/2 Rams
6:15	6:45	1/2	Drlg 8 3/4 Hole
6:15			Mix Lost Circ Mat before
	9:45	3	Trip Pump Down 60 bbls
9:45		2 1/4	T.I.P. out
			Extra
			EXTRA HRS MIXING
			Loss Circulation Material
			Long
			With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight Specify actual hours worked	Hrs.
Driller T. ZEMMA	8
Derrick W.B. ADAIR	10
Motor C. DANA	8
Floor JA EVANS	8
Floor O. LOEWEN	10

Accidents N.I
Outside Temp. 5°
Weather Conditions Cloudy
Road Conditions POOR

Toolpusher

Approved by

Toteo Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE FEB 11 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 31 LOCATION GPOGHA - BICHE FOB

WORK RECORD

NOTE: Do Not Record Payroll Information Here

FEB 17 1971

DATE FEB 11 1971

Rig No. 10 Report No. 31

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6561'	49'	6616	7 3/4	133,000	5 / 10	7" / 6 3/4	2 13/14 / 2 3/4		4'6"		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	22	8 3/4	RRG-7X	3/13	5741	15-20	64	6545	6616	71	10 1/4	33	2 1/4	Running

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT	8.7	8.7	8.7	8.7	WATER 1" LAZY	
VISCOSITY	47	45	43	44	STREAM	
GEL						

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	675	675	675	675
Model 250	S.P.M.	49	49	49	49
	Liner Size	5 1/2			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5 1/2			

GEL #10.5 SAX
BEN-EX #2.5 SAX

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. 9.8 F.C. 2/32 pH. 9.5 Solids

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Stands	611244
Singles	3141
D. Collars	448.75
Other Ft.	8.33
C.B. Ft.	5.60
Subs. Ft.	7.25
Ft. Down On Kelly	22
TOTAL	6616.

REMARKS	Time Start	Time Stop	Time Interval
RIG SER. & CHECK B.O.P.'S	12:00	12:15	1/4
DRLG 8 3/4" HOLE	12:15	8:00	7 3/4
			8.

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	8
Derrick ERNEST AMALIA	8
Motor WM WYCHOPEN	8
Floor RICK TULPINSKI	8
Floor BEN. DORVEL	8

Accidents NIL

Outside Temp. -10°

Weather Conditions [illegible]

Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6616	53	6669	7	133 M	10	6 3/4	2 13/14				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	22	8 3/4	RRG-7X	3/13	5741	15-25	64	6545	6669	124	17 1/4	33	2 1/4	RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT	8.7	8.7	8.7	8.7	Water	6657 1/4°
VISCOSITY	43	42	39	42	Caustic - 100#	6689 1/4°
GEL	9	9.0	8.6	9.5	GEL - 2000#	
					RENEX 4 SKS	
					DUMP & CLEAN SHAKER TANK	
					DUMP & CLEAN 1ST SETTLING TANK	

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	675	675	675	650
Model 250	S.P.M.	48	48	44	44
	Liner Size	5 1/2			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5 1/2			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	2 1/2	8	325		—	—		

Casing Record: Surface / Prod.

Cement

W.L. 9.2 F.C. 2/32 pH. 9.5 Solids

MOTOR HOURS: 1 — 8; 2 —; 3 —; Light Plant 8; BOILER HRS. 8

Stands	6612.44
Singles	63.00
D. Collars	448.75
Other Ft.	7.24
C.B. Ft.	5.60
Subs. Ft.	7.25
Ft. Down on Kelly	23.50
TOTAL	6669

REMARKS	Time Start	Time Stop	Time Interval
Rig Serv - Hydril & Motor	8:00		
Shutoff		8:15	1/4
Drlg 8 3/4 Hole	8:15	1:30	5 1/4
Directional Survey @ 6657	1:30	2:15	3/4
Drlg 8 3/4 Hole - 25M WOB	2:15	11:00	13/4

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VICK	8
Derrick DONALD ORMBOT	8
Motor DONALD STEVENS	8
Floor JOE CHARLEBOIS	8
Floor MAURICE MISINSKY	8

Accidents N.I

Outside Temp. 10°+

Weather Conditions Windy

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6669	37	6706	2	134 M	5 / 10	7 3/4 / 6"	2 13/14 / 2 13/14				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	22	8 3/4	RRG-7X	3-13	5741	15	64	6545	6706	161	19 1/4			6-2-1

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT	8.8	8.7	8.7		GEL 800#	6700 1/2°
VISCOSITY	45	45	45			5589.44
GEL						

PUMPS		4 p.m.	6 p.m.	8 p.m.
No. 1	Pressure	675	675	675
Model	S.P.M.	48	48	44
	Liner Size	5 1/2 & 15		
No. 2	Pressure			
Model	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
	2				—	—		60.00

Water Truck Hours: J.N. HENDRICKS

Desilter Hours: J.P. HENDRICKS

Desander Hours

W.L. 9.2 F.C. 2 pH. 9.5 Solids

MOTOR HOURS: 1 — 8 4; 2 —; 3 —; Light Plant 8; BOILER HRS. 8

Stands	620583
Singles	
D. Collars	448.75
Other Ft.	7.24
C.B. Ft.	5.60
Subs. Ft.	7.25
Ft. Down on Kelly	30
TOTAL	6706

REMARKS	Time Start	Time Stop	Time Interval
Drlg 8 3/4 Hole	9:00	5:00	1
Rig SER & 4 1/2 RAMS	5:00	5:15	1/4
Drlg 8 3/4 Hole	5:15	6:15	1
Circ up SAMPLE	6:15	8:15	2
Drop SURVEY	8:15	8:30	1/4
TRIP out & STRAP PIPE	8:30	9:30	1
TRY TO BREAK KELLY COCK	9:30	10:30	1
TRIP out	10:30	12:00	1 1/2
			Ehd

BOARD = 6706.00
STRAP = 6704.33
DIFF = 1.67 No Correction Made

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents N.I

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpushers _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

Toolpushers _____

Approved by _____

DATE FEB 10 1971

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 10 1971

Rig No. 10 Page No. 31 LOCATION CPOG LA-BICHE F08.

Rig No. 10 Report No. 30

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6512	23'	6535'	4 3/4	136000	5	7"	2 3/4		5'2" Gals.	Bbls.	Gal.
					10	6"	2 3/4				Bbls

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL
592630	3134.	415.56	8.65	6342	9.62.	34.	6535'

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
10	6 3/4	CHRIS	—	EC1014	10,000	69	6512	6535	23	3/4			Rerun

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			8.8	8.8		6512 16°	1 8	
VISCOSITY			56	55			2 8	
GEL							3	
PUMPS No. 1 Pressure			600	600			Light Plant 8	
Model			S.P.M. 37	37			BOILER HRS. 8.	
2 D Liner Size			5 1/2					
No. 2 Pressure								
Model			S.P.M.					
2 D Liner Size			5 1/2					

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement:

W.L. 9.0 F.C. 3/32 pH. 9.5 Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6535	10	6545'	1	136M	10	6-3/4	2 3/4		Gals.	Bbls.	Gal.
											Bbls.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
65		1149.75	8.35	5.60	7.25		

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
01	6 3/4	Chris	0	EC1814	10	69	6512	6545	33	5 3/4			Good
22	8 3/4	RR6-7x	3/13	5741									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.7						1 9	
VISCOSITY	49						2 5	
GEL							3	
PUMPS No. 1 Pressure	600						Light Plant 9	
Model C	S.P.M. 37						BOILER HRS. 9	
2 D Liner Size	5 1/2							
No. 2 Pressure								
Model C	S.P.M.							
2 D Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

Casing Record: Surface Size 5 1/2 - 6512 - Cut 33'; Prod. Rec 30'

Cement:

W.L. F.C. pH. 10.5 Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
6545	22	6567	2 1/2	136M	5	7"	2 3/4		Gals.	Bbls.	Gal.
					10	6-3/4	2 3/4				Bbls.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
601967	5135	..75	8.85	5.60	7.25	16	6567

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
22	8 3/4	RR6-7x	3/13	5741	15	65	6545	6567	22	3 3/4			Run

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT					H_2O	6560 15 1/2	1 8	
VISCOSITY		52	48	45	NIL	N57-W	2 —	
GEL						6567	3	
PUMPS No. 1 Pressure			700	700	CLEANED SHAKER TANK		Light Plant 8	
Model C	S.P.M.		48	48			BOILER HRS. 8	
2 D Liner Size								
No. 2 Pressure								
Model C	S.P.M.							
2 D Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet of Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.W.E. NUBRICKS $100 — $100.

Desilter Hours: J.W. HENDRICKS

Desander Hours:

W.L. 9.5 F.C. 2 pH. 9.5 Solids

REMARKS	Time Start	Time Stop	Time Interval
FINISH PICK UP CORE BBL	12 00	12 45	3/4.
& JARS.			
RIG SERV & CHECK BOPS.	12 45	1 00	1/4.
RAN IN HOLE	1 00	2 45	1 3/4.
CIRC. CORE BBL & DROP	2 45	3 15	1/2.
BALL			
CUT @ CORE # 1	3 15	8 00	4 3/4.
			8.

With Pipe / Without Pipe / Standby

Cutting Core # 1 - Bbl Jamming	8'00	9'00	1
Trip Out w/ Core	9'00	12'00	3
Rig Serv - Motor Shut to RG	12'00	12'15	1/4
Recover Core - Serv and	12'15		
Stand Core Bbl In Derrick		2'00	1 3/4
Pick Up Monel Collars	2'00		
Trip In Laying Down DCs			
Sub + 1 Drill Collar			
Change Stab Rubber		4'00	2
WATER PUMP OUT OF #2 MOTOR			

With Pipe / Without Pipe / Standby

TRIP IN	4 00	5 00	1
REAM RAT HOLE	5 00	6 30	1 1/2
RUN DIRECTIONAL SURVEY	6 30	7 15	3/4
RIG SER & 4 YD drill	7 15	7 30	1/4
REAM RAT HOLE	7 30	8 15	3/4
Drlg 8 3/4 HOLE	8 15	10 45	2 1/2
RUN DIRECTIONAL SURVEY	10 45		
15 1/2° 5.62 - W - N - 86 - W		11 30	3/4
REPAIR ROTARY CHAIN	11 30	12 00	1/2
			8 HRS

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick K. AMALIA	8
Motor M. WYCHOPEN	8
Floor DICK. TULPINSKI	8
Floor BEN DORVIL	8.

Accidents NIL

Outside Temp. 15°+

Weather Conditions SNOW

Road Conditions POOR.

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHARET	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISHOSKY	8

Accidents NIL

Outside Temp. 10°+

Weather Conditions SNOW

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents NIL

Outside Temp. 5°

Weather Conditions SNOW

Road Conditions POOR

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher Tony Zenner

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

Toolpusher Tony Zenner

Approved by H. Espelett

DATE Feb 9th 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 30 LOCATION C-I-G L.A.-Bicycle F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 9th 1971.

Rig No. 10 Report No. 30

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
		6476			5 / 10	7" / 6"	2 3/4 / 2 1/4		6"1" Gals.		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8 3/4	RX 55	3/3	9727			6476	-		-			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						6476 1/2 Deg
VISCOSITY						6476 16 1/2
GEL						

PUMPS								
No. 1	Pressure							
Model	S.P.M.							
	Liner Size	5 1/2						
No. 2	Pressure							
Model	S.P.M.							
	Liner Size	5 1/2						

W.L. F.C. pH. Solids

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8					50'	50'	9	

Casing Record: Surface; Prod.

Cement:

Stands 592630 Singles

D. Collars 454 5 1/2

Other Ft. 21

C.B. Ft. 8.95

Subs. Ft. 5.60

Ft. Down On Kelly 14.

TOTAL 6476

REMARKS	Time Start	Stop	Interval
Rig Ser. Check Bops	12 00	12 15	1/4
Hoist To Run Sperry Sun	12 15	2 00	1 3/4
Directional Survey			
R.S.up Sperry Sun	2 00	3 00	1
Directional Survey	3 00	6 30	3 1/2
Slip D/Line 50'	6 30	7 00	1/2
Ran In Hole	7 00	8 00	1

With Pipe Without Pipe Standby

Accidents N.I.L

Outside Temp. 30 +

Weather Conditions CLEAR

Road Conditions Poor

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick EK AMALIA	8
Motor WM. WYCHOPEN	8
Floor DICK TULINSKI	8
Floor BEN DORVEL	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6476	36	6512	6 3/4	130 M	10	6	2 1/4 2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
RR	21	8 3/4	X55R	3/13	9727	8-10 M	80	6476	6512	150	22			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT	9.2	9.2	8.7	8.7	Gel - 1500 #	
VISCOSITY	40	40	40	37	Benex - 3 SKS	
GEL	9 5	11	11	9.2		

PUMPS								
No. 1	Pressure	950	950	950				
Model C	S.P.M.	60	60	60				
25	Liner Size	5 1/2	5 1/2	5 1/2				
No. 2	Pressure							
Model C	S.P.M.							
25	Liner Size							

W.L. 9.7 F.C. 2/32 pH. 9.5 Solids

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	1/2	8	62		-	-			800

Dump Tanks

Casing Record: Surface; Prod.

Cement:

Stands 601967 Singles

D. Collars 454.56

Other Ft. 8.21

C.B. Ft. 8.85

Subs. Ft. 5.60

Ft. Down on Kelly 15

TOTAL 6512

REMARKS	Time Start	Stop	Interval
Rig Serv @ Hydril & Motor	8:00	8:15	
Shut off - O.K.			1/4
Finish Trip. Break Circ	8:15		
No Fill		9:15	1
Drlg 8 3/4 Hole	9:15	4:00	6 3/4

With Pipe Without Pipe Standby

Change Oil & Filter # Light Plant

Accidents N.I

Outside Temp. 30° +

Weather Conditions Snow

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKASEY	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6512				130 M	5 / 10	7" / 6"	2 3/4 / 2 1/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8 3/4	RX55R	3-13	9727					150	22			62-1
	10	6 1/16	CRS	D	EC1014									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT	8.8	8.8			GEL 350 #	6512 16°
VISCOSITY	37	45	55		CAUSTIC 100 #	
GEL					BENEX 7 SAX	

PUMPS								
No. 1	Pressure							
Model	S.P.M.							
	Liner Size							
No. 2	Pressure							
Model	S.P.M.							
	Liner Size							

W.L. 9.4 F.C. 2 pH. 9.7 Solids.

MOTOR HOURS	Oil Added
1	8
2	8 JARS
3	
Light Plant	8
BOILER HRS.	8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	1	8	124		-		-		800

Water Truck Hours: J.P. HENDRICKS $100

Desilter Hours: J.P. HENDRICKS — $100.

Desander Hours:

Stands 601967 Singles

D. Collars 454 56

Other Ft. 8.21

C.B. Ft. 63.43

Subs Ft. 9.62

Ft. Down on Kelly 1

TOTAL 6512

REMARKS	Time Start	Stop	Interval
Circ Condition Mud	4 00	6 30	2 1/2
Drop Survey	6 30	6 45	1/4
Trip out To Pick up Core bbls. & Strap Pipe	6 45	10 00	3 1/4
Rig Serv & Blind Rams	10 00	10 15	1/4
Making up Core bbl & Service Same	10 15	12 00	1 3/4
			8 hrs

With Pipe Without Pipe Standby

Board Tally = 651200

Strap = 650827

Diff = 3.73

Accidents N.I

Outside Temp. 0

Weather Conditions SNOW

Road Conditions Poor

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher Tony Towne

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Toolpusher Tony Towne

Approved by T.E. Copeland

DATE FEB 8 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 29 LOCATION C-P-G LA BICHE F-08.

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB. 8 1971

Rig No. Report No. 29

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6362	24'	6386	3	130,000 lbs	10	6"	2 3/4		4½ FT		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8 3/4	RX55	3/13	9727	12 M	80	6362	6386	24	3			Running

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives
WEIGHT				8.7	
VISCOSITY				40	
GEL					

PUMPS				
No. 1	Pressure			1000/1000
Model 250	S.P.M.			60 60
	Liner Size	5½		
No. 2	Pressure			
Model 250	S.P.M.			
	Liner Size	5½		

W.L. 10 F.C. 2/32 pH. 9.5 Solids

At Surveys Degree: 6384 16°

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool

Casing Record: Surface; Prod.; Cement

Stands 593397 | Singles 6199 | D. Collars 454.56 | Other Ft. 9.95 | C.B. Ft. 5.60 | Subs. Ft. 9.21 | Ft. Down On Kelly 18 | TOTAL 6396 | Next Slip

REMARKS

	Start	Stop	Interval
RIG SER & CHECK BOPS	12 00	12 15	1/4
RAN IN HOLE	12 15	3 00	3/4
LAY DOWN 18 JOINTS OF [redacted] PIPE & PICK UP 18 JOINTS OF X HOLE PIPE	3 00	3 00	1
FINISH IN HOLE	3 00	3 45	3/4
BRK CIR (NO FILL)	3 45	4 00	1/4
DRLG 8 3/4" HOLE	4 00	5 45	1 3/4
RAN HOWCO LINE SURVEY	5 45	6 45	1
DRLG 8 3/4" HOLE	6 45	8 00	1 1/4

With Pipe	Without Pipe	Standby

Accidents N.I.L

Outside Temp. 20 +

Weather Conditions WINDY

Road Conditions POOR

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick NICK AMALIA	8
Motor WM. WYCHOPEN	8
Floor BOB TULPINSKI	8
Floor BEN DORVEL	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6386	44	6430	7	130M	5 / 10	9" / 6"	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8¾	RX55	3/13	9727	8M	90	6362	6430	68	10			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives
WEIGHT	8.8	8.8	8.7	8.7	Water
VISCOSITY	37	35	40	38	Gel - 2000#
GEL	Ph	9.0	WL	9.8	Benex - 4 SKS
					Caustic - 100#

PUMPS					
No. 1	Pressure	975	975	975	975
Model 250	S.P.M.	60	60	60	60
	Liner Size	5½	5½	5½	5½
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5½			

W.L. 9.8 F.C. 2/32 pH. 9.5 Solids

At Surveys Degree: 6416 1°

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool
11¾	3½	8			—	—	

Casing Record: Surface; Prod.; Cement

Stands 592630 | Singles 3185 | D. Collars 454.56 | Other Ft. 9.95 | C.B. Ft. 5.60 | Subs. Ft. 9.21 | Ft. Down on Kelly 29 | TOTAL 6430 | Next Slip 80'

REMARKS

	Start	Stop	Interval
Rig Serv. Hydril & Motor	8 00		
Shutoffs OK.		8 15	1/4
Drlg 8¾ Hole w/ 8000 W.O.B.	8 15	1 15	5
Survey @ 6416 - 1°	1 15	2 00	3/4
Drlg w/ 8000 W.O.B.	2 00	4 00	2
FEB 7/71			
PIPE STRAP			
STRAP = 636087			
BOARD = 6362.00			
DIFF = 11.3 OVER HOLE			

With Pipe	Without Pipe	Standby

Accidents NIL

Outside Temp. 10° +

Weather Conditions Windy

Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD DIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6430	46	6476	5¼	131M	5 / 10	7" / 6"	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8¾	RX55	3/13	9727	8-10	80	6362	6476	114	15½			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives
WEIGHT	8.7	8.7	8.7	8.7	GEL 2700#
VISCOSITY	36	35	34	36	RENEX 5 SACK
GEL					CMC (R) 50#

PUMPS					
No. 1	Pressure	950	950	950	950
Model 250	S.P.M.	60	60	60	60
	Liner Size	5½ X 15			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size				

W.L. 10 F.C. 2 pH 10.0 Solids

At Surveys Degree: 6445 1½°; 6476

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool
11¾	3½	8	445		—	—	

Water Truck Hours: J.P. HENDRICKS 8/10

Desilter Hours: J.H. HENDRICKS O.T. 5 hrs. $110.00

Desander Hours:

Stands 592630 | Singles 3185 | D. Collars 454.56 | Other Ft. 8.85 | C.B. Ft. 5.60 | Subs. Ft. 8.21 | Ft. Down on Kelly | TOTAL 6476 | Next Slip 6800

REMARKS

	Start	Stop	Interval
Drlg 8¾ Hole	4 00	4 15	3/4
Circ up sample	4 15	6 15	1½
Drlg	6 15	7 00	3/4
Survey	7 00	7 30	½
Rig SER & 4½ Rams	7 30	7 45	1/4
Drlg	7 45	11 30	3¾
Drop Survey @ 6476	11 30	11 45	1/4
Trip out To Run	11 45	12 00	1/4
Directional Surveys			8 hrs

With Pipe	Without Pipe	Standby

Accidents NIL

Outside Temp. 20 +

Weather Conditions windy

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick R. Adair	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Tony Goeure

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Toolpusher Tony Goeure

Approved by [signature]

DATE FEB 7 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 28 LOCATION CPOG LA BICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 7 19 71

Rig No. 10 Report No. 28

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6290	42	6332	[illegible]	130,000	5 10	6"	2 3/4 2 3/4		2'		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	20	9 7/8	RX55	3/13	95772	12	80	6110	6332	222	[illegible] 34 1/4			RUNNING

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	[illegible]	[illegible]	8.7	8.7
VISCOSITY	36	37	37	40
GEL				

Additives: 500 # GEL. 3 SKS BENEX

At Surveys Degree: 6299 15 1/2

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS			12 a.m.	2 a.m.	4 a.m.	6 a.m.
	No. 1	Pressure	1000	1000	1000	1000
	Model	S.P.M.	60	60	60	60
		Liner Size	5 1/2			
	No. 2	Pressure				
	Model	S.P.M.				
		Liner Size	5 1/2			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
7 7/8	12	8	313		—	—	9	@ 800

Casing Record: Surface / Prod.

Cement:

W.L. 9.5 F.C. pH. 9.5 Solids

Stands 8411.08 Singles

D. Collars 454.56 Other Ft. 8.95 C.B. Ft. 5.60 Subs. Ft. 8.21 Ft. Down On Kelly 14 TOTAL 6332

Time	REMARKS	Start	Stop	Interval
	RIG SER. & CHECK BOP'S.	12 00	12 15	1/4
	DRLG. 8 3/4" HOLE	12 15	1 00	3/4
	REPAIR WIRE LINE &	1 00	2 30	1 1/2
	RAN HOWCO LINE SURVEY	1.30	2.30	1
	@ 6298			
	DRLG. 8 3/4" HOLE.	2 30	8 00	5 1/2
	PUMP SHALE TANK.			

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick NICK AMALIA	8
Motor WM. WYEHOPEN	8
Floor DICK TULPINSKI	8
Floor BEN. DORVEL	8

Accidents NIL

Outside Temp. 0

Weather Conditions CLEAR

Road Conditions POOR.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6332	30	6362	5 1/4	130 M	10	6	2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	20	9 7/8	RX55	3/13	95772	12	80	6110	6362	252	34 1/4			

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	9.0	
VISCOSITY	36	35	38	
GEL				

Additives: Gel - 1900# Benex - 4 SKs Caustic 50#

At Surveys Degree:

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS			8 a.m.	10 a.m.	12 p.m.	2 p.m.
	No. 1	Pressure	975	975	975	
	Model	S.P.M.	60	60	60	
	250	Liner Size	5 1/2		5 1/2	
	No. 2	Pressure				
	Model	S.P.M.				
	250	Liner Size	5 1/2			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
7 7/8		8			—	—		800

Casing Record: Surface / Prod.

Cement:

W.L. 9.6 F.C. pH. 9.5 Solids

Stands 5841.08 Singles

D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 5.60 Subs. Ft. 8.21 Ft. Down on Kelly 42.50 TOTAL 6362

Time	REMARKS	Start	Stop	Interval
	Rig Serv @ Hydril	8:00	8:15	1/4
	Drlg 8 3/4 Hole w/ 12000 WOB	8:15	1:30	
	Trip Out To Run	1:30		5 1/4
	Directional Survey			
	Strap Out		4:00	2 1/2
	BOARD = 636200			
	STRAP = 636087			
	113 DIFF			
	NO CORRECTION MADE			

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHARET	8
Motor DONALD STRUGLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8

Accidents NIL

Outside Temp. 10° +

Weather Conditions Clear

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
					10	6"	2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	21	8 3/4	RX55	3-13	9727									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: CHange oil in No 1 & 2 Flour MOTOR + [illegible] TORQUES

At Surveys Degree:

MOTOR HOURS	Oil Added
1	7
2	7
3	
Light Plant	8
BOILER HRS.	8

PUMPS						
	No. 1	Pressure				
	Model	S.P.M.				
		Liner Size				
	No. 2	Pressure				
	Model	S.P.M.				
		Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: J.P. HENDRICKS 4000

Dester Hours: J.M. HENDRICKS 16:00

Desander Hours:

W.L. F.C. pH. Solids.

Stands 5841.08 Singles

D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 5.60 Subs. Ft. 8.21 Ft. Down on Kelly 42 TOTAL 6362

Time	REMARKS	Start	Stop	Interval
	FINNISH TRIP OUT.	4:00	4:15	3/4
	R.g SERV & BLIND RAMS	4:15	5:00	1/4
	MAKING UP TOOLS TO	5:00		
	RUN DIRECTIONAL SURVEY		7:00	2.
	RUN SURVEY	7:00	10:00	3
	WAIT ON ORDERS	10:00	10:30	1/2
	TRIP IN CSG/SHT	10:30	12:00	1 1/2
	RUN DIRECTIONAL SURVEY			8 Hrs.
	MISC RUN			
	CHange Rubbers ON			
	STABALIZER			

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. Tennek	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor T. EVANS	8
Floor D. LOEWEN	8

Accidents NIL

Outside Temp. 20 <BELOW

Weather Conditions CLEAR

Road Conditions POOR

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE Feb 6 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 6 19 71

Rig No. 10 Page No. 27 LOCATION C.I.P.C. G Lafiche F-08

Rig No. 10 Report No. 27

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6141	44	6185	6½	132 M	5 10	6"	2¾ 2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	20	8¾	RX55	3-13	95772	12-15	80	6110	6185	75	15½			Run

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	38	37	34	35
GEL				

Additives H2O
GEL 2000#
Caustic
BENEX 4 SAX

At Surveys Degree: 6142 1¼° ; 6177 1.5°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Model	Pressure	975	975	985	975
		S.P.M.	60	60	60	60
		Liner Size				
No. 2	Model	Pressure				
		S.P.M.				
		Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1⅛	7½	8	315		—		—		@ 800

Casing Record: Surface; Prod.

Cement

W.L. 9.6 F.C. 2 pH. 10 Solids

Stands 56 53 58
Singles 3138
D. Collars 454.56
Other Ft. 8.85
C.B. Ft. 5.60
Subs. Ft. 8.21
Ft. Down On Kelly 23
TOTAL 6185

Time	Start	Stop	Interval
R.g Serv + Hydrill	12⁰⁰	12¹⁵	¼
Survey @ 6142	12¹⁵	12⁴⁵	½
Drlg 8¾ Hole	12¹⁵	5¹⁵	4½
Survey @ 6177	5¹⁵	6⁰⁰	¾
Drlg 8¾ Hole	6⁰⁰	8⁰⁰	2
			8 hrs.

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Zenuck	8
Derrick W.R. Adair	8
Motor C. DANA	8
Floor E. EVANS	8
Floor D. Loewen	8

Accidents N.I
Outside Temp. 0
Weather Conditions Clear
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6185	50'	6235	6¾	132,000	5 10	7" 6"	2¾ 2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	20	8¾	RX55	3/13	95772	15,000	80	6110	6235	125'	22¼			Running

MUD	8 p.m.	10 p.m.	12 p.m.	2 p.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	39	39	39	40
GEL				

Additives
GEL 5 SAX
BENEX 1 4

At Surveys Degree: 6235' 1.5°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			8 p.m.	10 p.m.	12 p.m.	2 p.m.
No. 1	Model C 250	Pressure	1,000	1,000	1,000	1,000
		S.P.M.	60	60	60	60
		Liner Size	5½			
No. 2	Model C 250	Pressure				
		S.P.M.				
		Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 9.4 F.C. 2/32 pH. 9.5 Solids

Stands 56 53 58
Singles 6167
D. Collars 454.56
Other Ft. 8.85
C.B. Ft. 5.60
Subs. Ft. 8.21
Ft. Down on Kelly 13
TOTAL 6235

Time	Start	Stop	Interval
Rig Serv. & BOPs motor Kills	8⁰⁰	8¹⁵	¼
Drilling 8¾" Hole	8¹⁵	3⁰⁰	6¾
Ran Howco Line Survey	3⁰⁰	11⁰⁰	1
			8 hrs.

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Tim MARTIN	8
Derrick Jack ANALIA	8
Motor Don WYCHOPEN	8
Floor Ted Tulinski	8
Floor Bill DARVEN	8

Accidents Nil
Outside Temp. 0
Weather Conditions WINDY
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6235	55	6290	7¾	130,000	5 10	7 6	2¼ 2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	20	8¾	RX55	3/13	95772	15	80	6110	6290	180	28			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	38	36	35	37
GEL Fn	9.5	9.4	9.4	

Additives WATER
GEL 1600#
DENEX 3 SK
Caustic 50#
Clean Settling Tank

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 9; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS			4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Model C 250	Pressure	975	975	975	975
		S.P.M.	60	60	60	60
		Liner Size	5½	5½	5½	5½
No. 2	Model C 250	Pressure				
		S.P.M.				
		Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1¼	2½	9	315		—		—	5	800

Water Truck Hours J.P. HENDRICKS $95

Desilter Hours J.P. HENDRICKS $95

Desander Hours

W.L. 9.6 F.C. 2/32 pH. 9.0 Solids

Stands 57 46.76
Singles
D. Collars 454.56
Other Ft. 9.55
C.B. Ft. 5.60
Subs. Ft. 8.21
Ft. Down on Kelly 34
TOTAL 6290

Time	Start	Stop	Interval
Rig Serv @ Hydril by Remote	4⁰⁰	4¹⁵	¼
Drlg 8¾ Hole w/ 15,000 WOB	4¹⁵	12⁰⁰	7¾
			8 hrs.

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Donald Uzo	8
Derrick Donald Chabot	8
Motor Donald Stehelin	8
Floor Sam Chamberlain	8
Floor Maurice Miskosky	8

Accidents Nil
Outside Temp. 5° +
Weather Conditions windy
Road Conditions Poor

Toolpusher Tony Loewen

Approved by H.E. Gatliff

Totco Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE Feb 5 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 5 19 71

Rig No. 10 Page No. 26 LOCATION C.P.O.G. LABICHE F-08

Rig No. 10 Report No. 26

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls.
6088	22	6110	7½	130 M	5 / 10	7" / 6"	2¾ / 2⅜		42" Gals.		

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
19	8¾	SHG-J	3/13	8838141	5-6	80	6080	6110	30	10½			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.8	8.8	8.7
VISCOSITY	37	39	39	36
GEL				

Additives H2O GEL 1400# RENEX 3 SAX

At Surveys Degree 6110

MOTOR HOURS 1: 8 2: 8 3: Light Plant 8 BOILER HRS. 8

Oil Added

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	950	950	950	950
Model	S.P.M.	60	60	60	60
	Liner Size	5½ X 15			
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool
1⅛	13	9	180		—		—	

Casing Record: Surface; Prod.

Cement

W.L. 9.4 F.C. 2 pH 9.5 Solids

Stands 555975 Singles 6227 D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 5.65 Subs. Ft. 8.21 Ft. Down On Kelly N.I TOTAL 6110 Next Slip @ 8000

REMARKS	Time Start	Stop	Interval
Drlg 8¾ HOLE	12:00	7:30	7½
R.S. SERV & 4½ RAMS	7:30	7:45	¼
SURVEY - MIS RUN	7:45	8:00	¼
			8 Hrs

With Pipe / Without Pipe / Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls.
6110	5'	6115'	1½	132,000	16	6"	2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
20	8¾	RR6-J	3/13	[redacted] 95772	5-6	80	6110	6115	5'	1½			Rerun

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				T
VISCOSITY				R
GEL				I

Additives

At Surveys Degree 6115 1500

MOTOR HOURS 1: 8 2: 8 3: Light Plant 8 BOILER HRS. 8

Oil Added

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	1020			D
Model 250	S.P.M.				I
	Liner Size	5 11/16			N
No. 2	Pressure				G.
Model 250	S.P.M.				
	Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 555975 Singles 6167 D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 5.60 Subs. Ft. 8.21 Ft. Down on Kelly 15' TOTAL 6115. Next Slip

REMARKS	Time Start	Stop	Interval
RIG SER. BOPS MOTOR KILL	2:00	8:15	¼
TRIP	8:00	12:00	3¾
REPAIR CROWN SLIDER	12:00	1:00	1
AIR LINE TO SAME	1:00		
FINISH TRIP	1:00	1:45	¾
BRK FIRE NO FILL	1:45	2:00	¼
DRILLING 8¾ HOLE	2:00	3:30	1½
SURVEY	3:30	4:00	½
			8

With Pipe / Without Pipe / Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls.
6115	26	6141	7½	132M	16	6	2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
RR 20	9¾	RR55	3/13	[redacted] 95772	6-8	80	6110	6141	31	[redacted] 9			Rerun

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	38	37	42	39
GEL PH	9.0		9.5	

Additives WATER CAUSTIC 100#

At Surveys Degree

MOTOR HOURS 1: 8 2: 8 3: Light Plant 8 BOILER HRS. 8

Oil Added

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	1000	975	975	975
Model C 250	S.P.M.	61	60	60	60
	Liner Size	5½			
No. 2	Pressure				
Model C 250	S.P.M.				
	Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool
1⅛	2½	9	315		—		—	

Water Truck Hours J HENDRICKS 9115

Desilter Hours

Desander Hours

W.L. 9 F.C. 4/32 pH 9.5 Solids

Stands 555975 Singles 61.67 D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 5.60 Subs. Ft. 8.21 Ft. Down on Kelly 32 TOTAL 6141 Next Slip 800

REMARKS	Time Start	Stop	Interval
Pull Survey	11:00	11:15	¼
Rig Serv. @ Hydril	11:15	11:30	¼
Drlg 8¾ Hole w/ 5000 WOB	11:30	12:00	7½
Changed Flex Hoses - #2 Motor Heat Exchanger			
Changed Oil #1 Motor Torque			

With Pipe / Without Pipe / Standby

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. TENNER	8
Derrick W.R. HYDRIL	8
Motor C. DALA	8
Floor T. EVANS	8
Floor D. LOEWEN	8

Social Ins Num 621-220-615

Accidents N.I

Outside Temp. 5°C

Weather Conditions CLEAR

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Jim MARTIN	8
Derrick NICK AMALIA	8
Motor Jim WYCHOPEN	8
Floor DEK TALINSKI	8
Floor Brad DARLEY	8

Accidents Nil.

Outside Temp. 10°

Weather Conditions CLEAR & WINDY.

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Donald VIG	8
Derrick Donald CHABOT	8
Motor Donald STUBBS	8
Floor Joe CHALIFOUX	8
Floor Maurice MUSKOSKY	8

Accidents N.I

Outside Temp. 0°

Weather Conditions Clear & windy

Road Conditions Poor

Toolpusher ____

Approved by ____

DATE Feb 4 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 2 LOCATION C.P.O.G LABiche F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 4 1971

Rig No. 10 Report No. —

Day Tour

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6008	40	6048	6 3/4	126	5 / 10	7" / 6"	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1RR	8 3/4	RX55	3-13	9836	5	80	5906	6048	142	24 3/4			Dlg

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT	8.8	8.8	8.7	8.7	NIL	6048 1 1/2
VISCOSITY	41	40	38	36		
GEL						

PUMPS						
No. 1	Pressure	950	950	950	950	
Model	S.P.M.	60	60	60	60	
	Liner Size					
No. 2	Pressure					
Model	S.P.M.					
	Liner Size					

W.L. 9.4 F.C. 2 pH. 9.5 Solids

MOTOR HOURS		Oil Added
1	8	
2	8	
3		
Light Plant	8	
BOILER HRS.	2	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1 1/8	5	8	60		—		—	

Casing Record: Surface; Prod.; Cement

Stands	555975
Singles	
D. Collars	954.56
Other Ft.	8.85
C.B. Ft.	5.60
Subs. Ft.	8.21
Ft. Down On Kelly	42
TOTAL	6048
Next Slip	@800

REMARKS	Time Start	Stop	Interval
R/g SER & 4½ Rams	12 00	12 15	1/4
Drlg 8 3/4 Hole	12 15	7 00	6 3/4
SURVEY @ 6048	7 00	8 00	1
		Shop	
INSTALL NEW MOTOR OIL			
Boiler			

With Pipe — Without Pipe — Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.

		Hrs.
Driller	T. Tanner	8
Derrick	W.R. ADAIR	8
Motor	C. DAIVA	8
Floor	J. EVANS	8
Floor	D. LACHEW	8

Accidents N.I.L

Outside Temp. 10°

Weather Conditions CLEAR

Road Conditions POOR

Day Tour

From	Footage	To	Hrs. on Bottom	Wt. Drill String (3300 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6048	32	6080	16 1/4	124,000	10	6"	2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1RR	8 3/4	RX55	3-13	9836	5,000	80	5906	6080	174	31			1-4-1

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT	8.8	8.7	8.8	8.8	Gel. 3 Bag Bew-ek	6080
VISCOSITY	36	36	39	37	DUMP SHALE TANK	
GEL						

PUMPS						
No. 1	Pressure	1050	1050	1050		
Model C-250	S.P.M.	60	60	60		
	Liner Size	5 1/2	5 1/2			
No. 2	Pressure					
Model C-250	S.P.M.					
	Liner Size	5 1/2				

W.L. 9.6 F.C. 2/32 pH. 9.5 Solids

MOTOR HOURS		Oil Added
1	8	
2	8	
3		
Light Plant	8	
BOILER HRS.	8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool

Casing Record: Surface; Prod.; Cement

Stands	555975
Singles	33975
D. Collars	954.56
Other Ft.	8.85
C.B. Ft.	5.60
Subs. Ft.	8.21
Ft. Down on Kelly	43
TOTAL	6080
Next Slip	800

REMARKS	Standby Start	Stop	Interval
DRILLING 8 3/4 HOLE	8 00	8 15	1/4
RIG SER CHECK REMOTE			
H-IROLL	8 15	8 30	1/4
DRILLING 8 3/4 HOLE	2 30	2 30	6
SURVEY (DROP) MICRUS	2 30	2 45	1/4
HOISTING		4 00	1 1/4
	2 45		

With Pipe — Without Pipe — Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.

		Hrs.
Driller	JIM MARTIN	8
Derrick	DICK ANGLIA	8
Motor	TOM McCLOSKEY	8
Floor	DICK TULLOSH	8
Floor	B.N. DORVEL	8

Accidents N.I.L

Outside Temp. 5°

Weather Conditions CLEAR & WINDY

Road Conditions POOR

Day Tour

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1300 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
6080	8	6088	3	130	5 / 10	7 / 6	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1A	8 3/4	SHG-5	3/13	893819	5-6	90	6080	6088	8	3			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT			8.8	8.8	Water	6080 1 1/2
VISCOSITY			40	37	Gel - 900#	
GEL					Benex - 1 sk.	

PUMPS						
No. 1	Pressure			975	975	
Model C-250	S.P.M.			60	60	
	Liner Size			5 1/2	5 1/2	
No. 2	Pressure					
Model C-250	S.P.M.					
	Liner Size				5 1/2	

W.L. 9.4 F.C. 2/32 pH. 9.5 Solids.

MOTOR HOURS		Oil Added
1	8	
2	9	
3		
Light Plant	8	
BOILER HRS.	8	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1 1/4	1 1/2	8	180		—			

Water Truck Hours: J. HENDRICKS 195

Desilter Hours:

Desander Hours:

Stands	555975
Singles	31.59
D. Collars	954.56
Other Ft.	8.85
C.B. Ft.	5.60
Subs. Ft.	8.21
Ft. Down on Kelly	20
TOTAL	6088
Next Slip	800

REMARKS	Standby Start	Stop	Interval
Finish Trip Out	4:00	5:45	1 3/4
Change Stab Rubber + Bit	5:45	6:00	1/4
Rig Serv @ Blind Rams	6:00	6:15	1/4
Trip In w/ Stab @ 90'	6:15	8:00	1 3/4
Break Circ + Wash To Btm	8:00	8:15	1/4
Drlg w/ 5-6000 W.O.B	8:15	9:45	1 1/2
Survey @ 6080	9:45	10:30	3/4
Drlg w/ 5000 WOB	10:30	12:00	1 1/2

With Pipe — Without Pipe — Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.

		Hrs.
Driller	DONALD VIG	8
Derrick	DONALD CHARRON	8
Motor	DONALD STEVERLE	8
Floor	JOE CHALIFOUX	8
Floor	MAURICE MISHOSKY	8

Accidents N.I.L

Outside Temp. 0°

Weather Conditions Clear + windy

Road Conditions POOR

Totco Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Size Rock ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by

DATE FEB 2 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 24 LOCATION C.P.O.G. LA BICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 3 19 71

Rig No. 10 Report No. 24

Bit 1

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
5906	26	5932	4	126 M	5 10	7" 6"	2 3/4 2 3/8		56" Gals.	Bbls.	Gal. Bbls.

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
19	8 3/4	RxSSR	3-13	9836	10	80	5906	5932	26	4			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			8.8	8.8	GEL 2000 #		L 8	
VISCOSITY			37	36	REWEX 4 SAX		2 8	
GEL	R				CAUSTIC 150 #		3	
PUMPS No. 1 Pressure		1	950	950	Duoplex Pump		Light Plant 8	
Model S.P.M.			60	60	Settling Tanks		BOILER HRS. 8	
Liner Size		P						
No. 2 Pressure					Size TRIPS No. Lines TON MILES TOTAL MILES	Slip Feet Cut	Feet Left on Spool	
Model S.P.M.					1 1/2 1/2 8 60	330 330		
Liner Size					Casing Record Surface			
					Prod.			

Wt. 9.8 F.C. 3/32 pH 9.6 Solids Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL	Next Slip
537103	6270	454.56	8.85	K.W. 5.60	8.21	20	5932	@ 800

REMARKS	Time Start	Stop	Interval
TRIP IN D.C.'S	12 00	12 15	1/4
Rig SER + Hydril	12 15	12 30	1/4
Cut + Slip 330 Drlg Line	12 30	1 15	3/4
TRIP IN HOLE	1 15	2 30	1 1/4
Chang Kelly, Saver Sub	2 30	2 45	1/4
BREAK CIR	2 45	3 00	1/4
Drlg 8 3/4 HLE	3 00	6 30	3 1/2
CIR up sample	6 30	7 30	1
Drlg	7 30	8 00	1/2

With Pipe 8 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T TANNER	8
Derrick W.R ADAIR	8
Motor C. DALA	8
Floor J EVANS	8
Floor D. LAWRENCE	8

Accidents N.I
Outside Temp. 5°
Weather Conditions CLEAR
Road Conditions POOR

Bit 2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
5932	39	5971	7	124 M 120	5 10	7" 6"	2 3/4 2 3/4		Gals.	Bbls.	Gal. Bbls.

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
19	9 3/4	RxSSR	3/13	9836	10 M 3 M	80	5906	5971	65	11			Pennies

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT		9.6	9.6	9.6	500 # Gel	5954 14°	1 8	
VISCOSITY		42	39	37	Ba-ex 1 bg.		2 8	
GEL							3	
PUMPS No. 1 Pressure		1050	1050	1050	1050		Light Plant 8	
Model S.P.M.		60	60	60	60		BOILER HRS. 8	
Liner Size		5 1/2						
No. 2 Pressure						Size TRIPS No. Lines TON MILES TOTAL MILES	Slip Feet Cut	Feet Left on Spool
Model S.P.M.								
Liner Size		5 1/2				Casing Record Surface		
						Prod.		

Wt. 9.8 F.C. pH 9.5 Solids Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTALS	Next Slip
5465.37		454.56	885	5.60	8.21	28	5971	

REMARKS	Time Start	Stop	Interval
RIG SER. BOPs + MOTOR KILLS	8 00	8 15	1/4
DRILLING 8 3/4" HOLE	8 15	12 00	3 3/4
RAN Hawco LINE SURVEY	12 00	12 45	3/4
DRILLING 8 3/4" HOLE	12 45	4 00	3 1/4

With Pipe 8 Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	8
Derrick NICK ANIALA	8
Motor WM WYCHOPEN	8
Floor DICK TULPINSKI	8
Floor BEN DARNELL	8

Accidents NIL
Outside Temp. 0
Weather Conditions SNOWING
Road Conditions POOR

Bit 3

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
5971	37	6008	7	126 M	5 10	7" 6"	2 3/4 2 3/4		Gals.	Bbls.	Gal. Bbls.

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
19	8 3/4	RxSSR	3/13	9836	6 M	80	5906	6008	102	18			Rust

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.7		8.7	8.7	Water		1 8	
VISCOSITY	34		44	43	Gel — 1500 #	5985 14½	2 8	
GEL	9.8		10.2	9.4	Benex — 3 SK		3	
PUMPS No. 1 Pressure	975	975	975	975	Caustic — 100 #		Light Plant 8	
Model C 250 S.P.M.	60	60	60	60	CMC — 50 #		BOILER HRS. 8	
Liner Size	5 1/2	5 1/2	5 1/2	5 1/2				
No. 2 Pressure					Size TRIPS No. Lines TON MILES TOTAL MILES	Slip Feet Cut	Feet Left on Spool	
Model C 250 S.P.M.					1 1/8 1/2 9 60 — —			
Liner Size	5 1/2				Water Truck Hours J HENDRICKS 100			
					Desilter Hours			
					Desander Hours			

Wt. 9.6 F.C. 3/32 pH 10.0 Solids.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL	Next Slip
5496.87	1	454.56	885	5.60	8.21	34.50	6004	800

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 Hole w/	4 00	6 15	2 1/4
Rig Serv @ 4½ Rams	6 15	6 30	1/4
Survey @ 5985 — 14½°	6 30	7 15	3/4
Drlg 8 3/4 Hole	7 15	12 00	4 3/4

Changed Oil # 1 Motor Torque Converter

With Pipe 8 Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD DIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CAILLEAUX	8
Floor MAURICE MISKACKY	8

Accidents Nil
Outside Temp. 0°
Weather Conditions Clear
Road Conditions POOR

Toteo Ring or Bit No. _____ D.P. Caliphered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher Tony Pozzo Toolpusher Tony Pozzo

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by H.E. Lytle

DATE Feb 2 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 2 19 71

Rig No. 10 Page No. 23 LOCATION C.K.O.G LABICHE F-08

Rig No. 10 Report No. 23

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5832	25	5857	4½	112 M	5 / 10	7" / 6"	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	17	8¾	Y H G	3-13	758853	14M	80	5796	5857	61	10¾			TRIP TI

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.7	8.7	
VISCOSITY	39	37	37	
GEL				

Additives: GEL 1400 / BENEX 3 SAX

At Surveys: 5857 Degree 13½

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS				
No. 1	Pressure	975	975	975
Model	S.P.M.	60	60	60
	Liner Size	5½ x 15		
No. 2	Pressure			
Model	S.P.M.			
	Liner Size	5½ x 15		

W.L. F.C. pH. Solids

Cement

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
1⅛		8						

Casing Record: Surface / Prod.

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL
527683	6793	454.56	885	8.95	8.21	37	5857

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole	12⁰⁰	4³⁰	4½
Drop Survey @ 5857	4³⁰	4⁴⁵	¼
Trip For Bit	4⁴⁵	7⁰⁰	2¼
Break Bit & Mud Hammer Down	7⁰⁰	7³⁰	½
R.g Scr & Blnd Rams	7³⁰	7⁴⁵	¼
Make up B.T	7⁴⁵	8⁰⁰	¼
			8hrs

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Tenger	8
Derrick W.R. ADAIR	8
Motor C. WANA	8
Floor J EVANS	8
Floor D. Lacewen	8

Accidents Nil
Outside Temp. 5+
Weather Conditions CLEAR
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5857	31'	5888	6	112,000	5 / 10	7" / 6"	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	18	8¾	S H G	3/13	879328	12,000	80	5857	5888	31'	6			RUNNING

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	8.8	
VISCOSITY	40	40	38	
GEL				

Additives: CMC - 50#

At Surveys: 5857 Degree 13½

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS.	8

PUMPS				
No. 1	Pressure	1050	1050	1050
Model	S.P.M.	60	60	60
	Liner Size	5½ x 15"		
No. 2	Pressure			
Model	S.P.M.			
	Liner Size	5½ x 15"		

W.L. Hot F.C. pH. 9.5 Solids

Cement

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
527683		454.56	995	8.95	8.21	12	5992

REMARKS	Time Start	Stop	Interval
Rig Ser & BOPs	8⁰⁰	8¹⁵	¼
Run in Hole	8¹⁵	10⁰⁰	1¾
Brk Circ No Fill Hole Good			
Drlg 8¾" Hole	10⁰⁰	4⁰⁰	6
			8

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Jim MARTIN	8
Derrick NICK RIALA	8
Motor WM WYCHOPEN	8
Floor DICK TULINSKI	8
Floor BEN DARVEN	8

Accidents
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5888	18	5906	3¾	114,000	5 / 10	7" / 6"	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	18	8¾	S H G	3/13	879323	12M	80	5857	5906	49	9¾			1-1-E

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.7		8.7	
VISCOSITY	34		35	
GEL PH	9.5	WL	9.8	

Additives: Water / Gel - 2000 # / Benex - 4sks

At Surveys: 5890 Degree 14° / 5906 Degree 14°

MOTOR HOURS	Oil Added
1	8
2	8
3	
Light Plant	8
BOILER HRS	8

PUMPS				
No. 1	Pressure	975		975
Model C 250	S.P.M.	60		60
	Liner Size	5½		5½
No. 2	Pressure			
Model C 250	S.P.M.			
	Liner Size	5½		

W.L. 9.8 F.C. 2/32 pH. 9.5 Solids

Cement

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
1⅛	2½	8	26.7		—	—		

Water Truck Hours
Desilter Hours
Desander Hours
J. Hendricks Water Haul = $100.00

Stands	Singles	D. Collars	Other Ft.	C.S. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
537103	3130	454.56		8.85	K.B 5.60	27	5906

REMARKS	Time Start	Stop	Interval
Rig Serv @ Hydril - Motor Switch	4:00	4:15	¼
Drlg w/12⁰⁰⁰ W.O.B	4:15	5:30	1¼
Survey @ 5890 - 14°	5:30	6:15	¾
Drlg w/12⁰⁰⁰ W.O.B	6:15	8:45	2½
Drop Survey	8:45	9:00	¼
Trip For Bit - Close Blind Rams & Change Bits	9:00	12:00	3
			8

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DOUGLAS STABLE	8
Floor JOE CHANCEOUX	8
Floor MAURICE MUSAKEN	8

Accidents Nil
Outside Temp. 5°+
Weather Conditions windy
Road Conditions POOR

Toto Ring on Bit No. _____ D.P. Collapsed Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher Tony Devine Toolpusher Tony Devine

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by H.E. Copeland

DATE FEB 1 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 22 LOCATION C.P.O.G LABICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 1 19 71

Rig No. 10 Report No. 22

Run 1

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5771	25	5796	5 3/4	108 M	5	7"	2 7/8				
					10	6	7 3/8				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
16	8 3/4	YHG	3-13	876498	34	80	5764	5796	32	5 3/4			TR.P

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.6	8.7	
VISCOSITY	36	34	34	
GEL				

Additives: H_2O GEL 3800# RENEX 11 SAX CAUSTIC 100# DUMPED & CLEANED SETTLING TANK

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added: K.W.

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	925	925	925	
Model C 7 1/4	S.P.M.	60	60	60	
	Liner Size				
No. 2	Pressure				
Model C 7 1/4	S.P.M.				
	Liner Size				

Size	TRIPS	No. Liners	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8		8						@800

Casing Record: Surface; Prod.

Cement

W.L. 9.8 F.C. 3/32 pH. 9.5 Solids

Stands 527683 Singles D. Collars 454.56 Other Ft. 8.85 C.B. Ft. 9.85 Subs. Ft. 8.21 Ft. Down On Kelly 38 TOTAL 5796

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 Hole	17 00	5 15	5 3/4
T.O. FOR B.J	5 15	7 00	1 1/4
REPAIR High Chain	7 00	8 00	1

With Pipe 6 Without Pipe Standby

Run 2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5796	4'	5800	1/2	109,000	5	7"	2 3/4				
					10	6	2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
17	8 3/4	YHG	3/13	758853	1M-4	90	5796	5800	4	1/2			Reamed

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: NIL

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added: 1600

PUMPS					
No. 1	Pressure				
Model C 5 1/2	S.P.M.				60
	Liner Size	5 1/2			
No. 2	Pressure				
Model C 7 1/4	S.P.M.				
	Liner Size	5 1/2			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
									0

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 527693 Singles 62.93 D. Collars 454.56 Other Ft. 8.95 C.B. Ft. 9.21 Subs. Ft. 821 Ft. Down on Kelly 42. TOTAL 5800.

REMARKS	Time Start	Stop	Interval
RIGGER.	8 00	8 15	1/4
HOISTING	8 15	10 00	1 3/4
SERVICE MUD HOMMER V.	10 00	11 30	1 1/2
STABLIZER			
RAN IN HOLE	11 30	1 00	1 1/2
REPAIR & CHANGE OVER	1 00	2 30	1 1/2
RIDING CLUTCH IN HYDROMATIC			1/2 HR
FINISH IN HOLE	2 30	3 15	3/4
BRK CIRC	3 15	3 30	1/4
DRLG	3 30	4 00	1/2

With Pipe Without Pipe Standby

Run 3

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5800	32	5832	5 3/4	112M	5	7"	2 3/4				
					10	6	2 7/8				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
17	8 3/4	YHG	3/13	758953	1M-20	80	5796	5832	36	6 1/4			RUN

K.W. in Hammers

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.6	8.9	8.9	8.9
VISCOSITY	38	37	48	37
GEL	P# 8.0		10	

Additives: Water; Gel — 1500#; Benex — 6#; Caustic — 100#

At Surveys Degree		
5800	11 1/2	
5830	12 1/2	

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS 8

Oil Added:

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure		975	975	975
Model C 7 1/4	S.P.M.		60	60	60
	Liner Size		5 1/2	5 1/2	5 1/2
No. 2	Pressure				
Model C 7 1/4	S.P.M.				
	Liner Size	5 1/2			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	1 1/2	8	160		—	—			800

Water Truck Hours: J.H 10 hrs + 5 hrs overtime = $110.00

Desilter Hours

Desander Hours

W.L. 9.8 F.C. 3/32 pH. 10 Solids.

Stands 527683 Singles 62.93 D. Collars 454.56 Other Ft. 8.95 C.B. Ft. 9.21 Subs. Ft. 4.21 Ft. Down on Kelly 43.50 TOTAL 5832

REMARKS	Time Start	Stop	Interval
Drlg w/ 14 M W.O.B	4:00	4:30	1/2
Rig Serv @ Hydril	4:30	4:45	1/4
Survey @ 5800 — 11 1/2°	4:45	5:30	3/4
Drlg w/ 18 M W.O.B	5:30	10:30	5
Circ Sample - Geo Orders	10:30	11:00	1/2
Survey @ 5830 — 12 1/2°	11:00	11:45	3/4
Drlg w/	11:45	12:00	1/4

With Pipe Without Pipe Standby

Totco Ring on Bit No. ____ D.° Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Tom Towe

B.O.P. Test Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Toolpusher Tom Towe

Approved by T.L. Bylie

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W.D. Adair	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. LOEWEN	8

Accidents N.I

Outside Temp. 5°

Weather Conditions SNOW

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick DICK KNIALA	8
Motor WM. WYCHOPEN	8
Floor BEN DORIAK	8
Floor DICK TULPINSKI	8

Accidents WM. WYCHOPEN SPRAINED LEFT SHOULDER

Outside Temp. 0°

Weather Conditions CLOUDY.

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor MAURICE MISKOSKY	8
UTC# 700-602-904	

Accidents NIL

Outside Temp. 8° +

Weather Conditions CL. SY

Road Conditions POOR

DATE JAN 31 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE JAN 31 FEB - 5 1971

Rig No. 10 Page No. 21 LOCATION C.P.O.G LABICHE F-08

Rig No. 10 Report No. 21

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5651	69	5720	7¼	112 M	5 / 10	7" / 6"	2¾ / 2¾		2114 Gals.		

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
15	8¾	YHG	3-13	887140	16	80	5469	5720	251	28½			Dlg

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.8	8.8	8.7
VISCOSITY	34	36	38	37
GEL				

Additives: CMC (HIVIS) 50# · GEL 4000 # · BENEX 8 SAX · CAUSTIC 100#

At Surveys Degree: 5698 11°

MOTOR HOURS: 1 8 · 2 8 · 3 · Light Plant 8 · BOILER HRS. 8

Oil Added

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	950	950	950	950
Model C 250	S.P.M.	60	60	60	60
	Liner Size	5½	X	15	
No. 2	Pressure				
Model C 250	S.P.M.	ON	MIXER		
	Liner Size	5½	X	15	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
15	2½	8	245		—	—		@ 800

Casing Record: Surface · Prod.

Cement

W.L. 10.2 F.C. 2/32 pH 9.5 Solids

Stands 518408 · Singles 7964 · D. Collars 454.56 · Other Ft. 8.55 · C.B. Ft. · Subs. Ft. 8.21 · Ft. Down On Kelly 35 · TOTAL 5720 · Next Slip @ 800

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5720	44	5764	9¼	110,000 M	5 / 6	7" / 6"	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
15	8¾	YHG	3/13	892140	16-18	80	5469	5764	295	32¾			521

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	9.8	
VISCOSITY	39	38	39.	
GEL				

Additives: Gel 600 # · Benex 4 sx

At Surveys Degree: 5764 11½

MOTOR HOURS: 1 8 · 2 9 · 3 · Light Plant 9 · BOILER HRS. 8.

Oil Added

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	1000	1000	1100	
Model 250	S.P.M.				
	Liner Size	5½			
No. 2	Pressure				
Model 220	S.P.M.				
	Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface · Prod.

Cement

W.L. 10 F.C. 2/32 pH 9.5 Solids

Stands 518408 · Singles 7964 · D. Collars 454.56 · Other Ft. 8.55 · C.B. Ft. · Subs. Ft. 8.21 · Ft. Down on Kelly 16. · TOTAL 5764. · Next Slip

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATES Bbls.	CRUDE Gal. / Bbls.
5764	7	5771	2½	108 M	5 / 10	7 / 6	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
16	8¾	YHG	3/13	B76478	14	90	5764	5771	7	2			Run

Key Seat Wiper Hanger

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				8.8
VISCOSITY				40
GEL				

Additives: Nil

At Surveys Degree: —

MOTOR HOURS: 1 8 · 2 9 · 3 · Light Plant 9 · BOILER HRS. 9

Oil Added

PUMPS					
No. 1	Pressure				975
Model C 150	S.P.M.				60
	Liner Size				5½
No. 2	Pressure				
Model C 260	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
11¼	½	9			110'	110'		@ 800

Water Truck Hours: Jett 10 hrs @ $60 + 3 hrs = $90.00

Desilter Hours: Gravity Feed

Desander Hours

W.L. 9.6 F.C. 2/32 pH 9.5 Solids

Stands 527683 · Singles · D. Collars 454.56 · Other Ft. 8.85 · C.B. Ft. 9.95 · Subs. Ft. 8.21 · Ft. Down on Kelly 13.50 · TOTAL 5771 · Next Slip

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole	12⁰⁰	1⁴⁵	1¾
R.g SERV & HYDRIL	1⁴⁵	2⁰⁰	¼
Drlg 8¾ Hole	2⁰⁰	5⁰⁰	3
SURVEY @ 5698	5⁰⁰	5³⁰	½
Drlg 8¾ Hole	5³⁰	7⁰⁰	1½
			8hrs

With Pipe 8 Without Pipe Standby

Rig Serv Check Bol's	8⁰⁰	8¹⁵	¼
DRLG	8²²	12⁰⁰	3¾
Rad Howco Line Servey	12⁰⁰	12⁴⁵	¾
DRLG	12⁴⁵	1¹⁵	½
Hoist	1¹⁵	4¹⁰⁰	2¾

With Pipe 9 Without Pipe Standby

Rig Serv @ Blind Rams	4⁰⁰	4¹¹⁵	¼
Serv @ Run Mud Hammer	4¹¹⁵		
Drill Collars & Key Seat Wiper		6⁰⁰	1¾
Install New Kelly Cock	6⁰⁰	6³⁰	½
Slip & Cut Drlg Line	6³⁰		
Clean Suction Tank		7³⁰	1
Finish Trip In	7³⁰	9⁴⁵	2¼
Break Circ & Start BIT No 16 Fill	9⁴⁵	10⁰⁰	¼
Drlg w/ 8-14 mud W.O.B	10⁰⁰	12⁰⁰	2

With Pipe 7 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W.D. Adair	8
Motor C. DANA	8
Floor J EVANS	8
Floor DALE LOEWEN	8

Accidents Nil

Outside Temp. 5°

Weather Conditions CLEAR

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8.
Derrick NICK ANIOLA	8
Motor WM. WIEHOLEN	8
Floor BEN DORVEL	8
Floor DICK TULPINSKI	8.

Accidents Nil

Outside Temp. 0°

Weather Conditions CLEAR.

Road Conditions POOR.

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor SAM CHARLEBOIS	8
Floor MAURICE MISKASH	8

Accidents Nil

Outside Temp. 10°

Weather Conditions Cloudy

Road Conditions Poor

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by

DATE JAN 30 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 20 LOCATION C.P.O.G LABICHE F08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE JAN 30 19 71

Rig No. 10 Report No 20

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbl.
5475	50	5525	7	111,000	5 / 10	7 / 6	2 3/4 / 2 2/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	15	8 3/4	YHG	3/13	982140	5-6	90	5469	5525	56	7 1/2			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.8	8.8	8.8
VISCOSITY	42	41	40	40
GEL	9.0			

Additives: Caustic 100#

At Surveys: 5510 Degree 11°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added:

PUMPS		No. 1	No. 2
Model		C 250	C 250
Pressure		975	975
S.P.M.		60	60
Liner Size		5 1/2	5 1/2

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	2 1/2	8	245		—	—		@ 5511 TH

Casing Record: Surface; Prod.

Cement:

W.L. 10.0 F.C. 1/32 pH. 9.0 Solids

Stands 4996.72; Singles 30.60; D. Collars 454.56; Other Ft. 8.55; C.B. Ft.; Subs. Ft. 9.21; Ft. Down On Kelly 26.50; TOTAL 5525

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 Hole W.O.B 15-20M	12:00	3:30	3 1/2
Rig Ser + Hydril-Check	3:30		
Motor Shutoffs - Working Good		3:45	3/4
Survey @ 5510	3:45	4:30	3/4
Drlg wt 8-10M W.O.B.	4:30	8:00	3 1/2

With Pipe 8 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD UHR	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor NARVE ROEN	8

Accidents N:l

Outside Temp. 15°—

Weather Conditions Clear

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbl.
5525	59	5584	6 3/4	112M	5 / 10	7 / 6	2 3/4 / 2 2/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	15	8 3/4	YHG	3-13	882140	9-14	75	5469	5584	115	14 1/4			Drlg

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.8	8.8	8.8	8.8
VISCOSITY	39	40	39	39
GEL				

Additives: H_2O; NIL; DUMPED & CLEAN SHAKER & SETTLING TANKS

At Surveys: 5542 Degree 10°; 5573 Degree 11°

MOTOR HOURS: 1 — 8; 2 — 1/2; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added:

PUMPS		No. 1	No. 2
Model		C 250	C 250
Pressure		925	700
S.P.M.		60	51
Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	2 1/2	8	245		—	—		@ 5584 TH

Casing Record: Surface; Prod.

Cement:

W.L. 9.2 F.C. 2 pH. 9.5 Solids

Stands 5490.54; Singles 62.06; D. Collars 454.56; Other Ft. 8.55; C.B. Ft.; Subs. Ft. 8.21; Ft. Down on Kelly 22; TOTAL 5584

REMARKS	Time Start	Stop	Interval
Drlg 8 3/4 HOLE	8:00	9:45	1 3/4
Rig SER & 4 1/2 Rams	9:45	10:00	1/4
Survey @ 5542	10:00	10:30	1/2
Drlg 8 3/4 HOLE	10:30	2:15	3 3/4
SURVEY @ 5573	2:15	2:45	
Drlg 8 3/4 HOLE	2:45	4:00	1 1/4
			Elev
NO 2 MOTOR TURBO WENT			

With Pipe 8 Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W. Radon	8
Motor G. Davis	8
Floor J. Evans	8
Floor D. Hall	4

Accidents N:l

Outside Temp. 0°

Weather Conditions Clear

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbl.
5534	61'	5651		111,000	5 / 10	7" / 6"	2 3/4 / 2 1/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	15	8 3/4	YHG	3/13	882140	13	75	5469	5651	182	21 1/4			

MUD	4 a.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.8	9.8	9.8	
VISCOSITY	39	40		
GEL				

Additives: 6 SKS GEL; 1 SK LIGN

At Surveys: 5573 Degree 11°; 5635 Degree 10°

MOTOR HOURS: 1 — 8; 2 — 4; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added:

PUMPS		No. 1	No. 2
Model		C 250	C 250
Pressure		700	700
S.P.M.		60	60
Liner Size		5 1/2	5 1/2

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1"		8						

Casing Record: Surface; Prod.

Cement:

Water Truck Hours: 10 hrs @ 40 + 2 hrs Overtime = $50.00

Desilter Hours

Desander Hours

W.L. 10.0 F.C. 2/32 pH. 9.5 Solids.

Stands 5490.54; Singles 62.06; D. Collars 454.56; Other Ft. 8.55; C.B. Ft.; Subs. Ft. 8.21; Ft. Down on Kelly 27; TOTAL 5651.

REMARKS	Time Start	Stop	Interval
DRLG	4:00	4:15	1/4
RIG SER.	4:15	4:30	1/4
DRLG	4:30	9:15	5 1/4
RAN Howco Line SURVEY	9:15	10:30	3/4
DRLG	10:30	12:00	1 1/2
			8
INSTALL NEW TURBO # 2			

With Pipe 8 Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TOM MARTIN	8
Derrick NICK KANIA	8
Motor WM. J. CHAPEAU	8
Floor RICHARD WINSOR	8
Floor	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Co Ring on Bit No. ____ D.P. Tapered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

D.P. Test-Operated ____ Time ____ Results ____ Total Compar. Time ____ Hrs. Approved by ____ Approved by

DATE Jan. 29 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Jan. 29 19 71

Rig No. 10 Page No. 19 LOCATION C.P.O.G. LAFICHE F08

Rig No. 10 Report No. 19

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5381	40	5421	6¼	113M	5 / 10	7 / 6	2¾ / 2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	14	8¾	H77	3/13	304604	18-12	80	5298	5421	123	18½			Run

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT	36	38	38	39	Gel - 1500#	5395	9¾	1 8	
VISCOSITY	87	87	87	87	Benex - 6#	5415	10°	2 8	
GEL								3	
PUMPS No. 1 Pressure	1000	1000	1000	1000				Light Plant 8	
PUMPS No. 1 Model C-250 S.P.M.	60	60	60	60				BOILER HRS. 4	
PUMPS No. 1 Liner Size	5¾	5½	5½	5½					
PUMPS No. 2 Pressure									
PUMPS No. 2 Model C-250 S.P.M.									
PUMPS No. 2 Liner Size	5½								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1⅛	1½	8	145		—		—	

Casing Record: Surface; Prod.

Cement:

W.L. 10.2 F.C. 2/32 pH. 9.0 Solids

Stands 490.97 | Singles 31.68 | D. Collars 454.56 | Other Ft. 8.55 | C.B. Ft. | Subs. Ft. 8.21 | Ft. Down On Kelly 18 | TOTAL 5421 | Next Slip 800'

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole 18M WOB 83	12:00	12:30	½
Rig Serv @ Hydril	12:30	12:45	¼
Survey @ 5385' - 9¾°	12:45	1:30	¾
Drlg 8¾ Hole	1:30	4:45	3¼
Survey @ 5415	4:45	5:30	¾
Drlg 8¾ Hole 12M WOB.	5:30	8:00	2½

With Pipe S Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIC	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHRETIEN	8
Floor NARVE ROEN	8

Accidents NIL

Outside Temp. 26° -

Weather Conditions Cloudy

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5421	48	5469	6½	113M	5 / 10	7" / 6"	2¾ / 2⅜				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	14	8¾	H77	3-13	304604	14	80	5298	5469	171	24			TRIP 5-1-71

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT	9.5	9.8	9.7	9.7	GEL 1800#			1 8	
VISCOSITY	37	36	36	38	BENEX 4 SAX	5415	10°	2 8	
GEL					CAUSTIC 150#			3	
PUMPS No. 1 Pressure	900	950	950	900				Light Plant 8	
PUMPS No. 1 Model C-250 S.P.M.	60	60	60	60				BOILER HRS. 8	
PUMPS No. 1 Liner Size									
PUMPS No. 2 Pressure									
PUMPS No. 2 Model C-250 S.P.M.									
PUMPS No. 2 Liner Size									

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool
1½		8			—		—	

Casing Record: Surface; Prod.

Cement:

W.L. 9.5 F.C. 2/32 pH. 9.0 Solids

Stands 490.97 | Singles 63.31 | D. Collars 454.56 | Other Ft. 8.55 | C.B. Ft. | Subs. Ft. 8.21 | Ft. Down on Kelly 33 | TOTAL 5469 | Next Slip @ 800

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole	2:00	10:30	2½
Rig Ser & 4½ Rams	10:30	10:45	¼
Drlg 8¾ Hole	10:45	2:45	4
Drop Survey - 5465' - 10°	2:45	3:00	¼
TRIP FOR BIT	3:00	4:00	1
Thaw out Mud Can Line	3:15	4:00	¼

With Pipe S Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Zenner	8
Derrick W.D. Adair	8
Motor C. Dana	8
Floor J. Evans	8
Floor D. Hall	8

Accidents NIL

Outside Temp. 12°

Weather Conditions CLEAR

Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5469	6	5475	½	110,000 lbs	5 / 10	7" / 6"	2¾ / 2⅜				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	15	8¾	YHG	3/13	882140	6,000	80	5469	5475	6	½			Run

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT					NIL			1 8	
VISCOSITY								2 8	
GEL								3	
PUMPS No. 1 Pressure				4000				Light Plant 8	
PUMPS No. 1 Model C-250 S.P.M.				60				BOILER HRS. 8	
PUMPS No. 1 Liner Size	5½								
PUMPS No. 2 Pressure									
PUMPS No. 2 Model C-250 S.P.M.									
PUMPS No. 2 Liner Size	5½								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool

Water Truck Hours 10 hrs @ $60 + 2 hrs overtime = $80.00

Desilter Hours

Pasander Hours

W.L. F.C. pH. Solids.

Stands 490.97 | Singles 63.31 | D. Collars 464.56 | Other Ft. 9.55 | C.B. Ft. | Subs. Ft. 9.21 | Ft. Down on Kelly 39 | TOTAL | Next Slip

REMARKS	Time Start	Stop	Interval
Rig Ser.	4:00	4:15	¼
Thaw out Mud Can Line	4:15	5:00	¾
Hoist Plug Bit	5:00	8:00	3
Check Stablizer & OTIS Sub.	8:00	8:30	½
Ran in Hole	8:30	11:15	2¾
Brk Circ & Fill DRLG.	11:15	11:30	¼
	11:30	12:00	½

EXTRA Has work on Fuel storage Tank

With Pipe S Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Jim MARTIN	8
Derrick Mick AMIALA	12
Motor Jim WYCHOREN	12
Floor G. McBRIDE	8
Floor R. TUPPER	8

Accidents NIL

Outside Temp. 25°

Weather Conditions WINDY

Road Conditions POOR

Toolpusher

Approved by

Totco Ring on Bit No. ____ O.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE Jan 28 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Jan 28 19 71

Rig No. 10 Page No. 18 LOCATION C.P.O.G LABICHE F.O.8

Rig No. 10 Report No. 18

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5267	31	5298	6	115M	5 / 10	7 / 6	2 3/4 / 2 3/4				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
13	8 3/4	MH2-G-J	3/13	G11886	6-14M	80	5177	5298	121	21			5-3-1

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.7		8.7	8.7	Gel - 1100	5295'	1 8	
VISCOSITY	36		36	37	Benex - 4#		2 8	
GEL	PH 9.5						3	
PUMPS No. 1 Pressure	950	950	950	950	Cleaned Settling Tank		Light Plant 8	
Model C 250 S.P.M.	60	60	60	60			BOILER HRS. 8	
Liner Size	5½	5½	5½	5½				
No. 2 Pressure								
Model C 250 S.P.M.								
Liner Size	5½							

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1¾		8			—	—		

Casing Record: Surface / Prod. / Cement

W.L. 12.3 F.C. pH 9.5 Solids

Stands 4809.46 | Singles | D. Collars 454.56 | Other Ft. 8.55 | C.B. Ft. | Subs. Ft. 8.21 | Ft. Down on Kelly 18 | TOTAL 5298

REMARKS	Time Start	Stop	Interval
Drlg w/ 14000 W.O.B	12:00	1:30	1½
Rig Serv @ Hydril	1:30	1:45	¼
Drlg 8¾ Hole w/ 14000 W.O.B	1:45	6:15	4½
Drop Survey	6:15	6:30	¼
Trip For Bit	6:30	8:00	1½

With Pipe 5 Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5298	32	5330	4½	112M	5 / 10	7 / 6	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
14	8¾	HH77	3-13	304604	12	80	5298	5330	32	4½			Drlg.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			8.7	8.7	GEL 3000#		1 8	
VISCOSITY			33	32	BENEX 6 SAX		2 8	
GEL					CAUSTIC 50#		3	
PUMPS No. 1 Pressure			950	950			Light Plant 8	
Model C 250 S.P.M.			60	60			BOILER HRS. 8	
Liner Size	5½	X	5½					
No. 2 Pressure								
Model C 250 S.P.M.	OFF		OFF					
Liner Size	5½	X	5½					

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
14	1	8	145					0800

Casing Record: Surface / Prod. / Cement

W.L. 9.2 F.C. 2/32 pH 9.5 Solids

Stands 4809.46 | Singles 3148 | D. Collars 454.56 | Other Ft. 8.55 | C.B. Ft. 8 | Subs. Ft. 8.21 | Ft. Down on Kelly 19 | TOTAL 5330

REMARKS	Time Start	Stop	Interval
Finish Trip Out	8:00	9:00	1
Rig Serv & Blind Rams	9:00	9:15	¼
Make up Bit	9:15	9:30	¼
Trip In	9:30	11:15	1¾
Break Circ - W.O. Fill	11:15	11:30	¼
Drlg 8¾ Hole	11:30	4:00	4½

With Pipe 8 Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5330	51	5381	6¾	112000	5 / 10	7" / 6"	2¾ / 2¾				

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
14	8¾	HH77	3-13	301604	15-16M	80	5298	5381	83	11¼			Reamed

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.6	8.6	8.6	8.6		5355'	1 8	
VISCOSITY	40	41	41	40	N/H TANK.		2 8	
GEL					CLEAN	5355' 9½	3	
PUMPS No. 1 Pressure	1,600	1,600	1,600	1,600			Light Plant 8	
Model 250 S.P.M.	60	60	60	60			BOILER HRS. 8	
Liner Size	5½							
No. 2 Pressure								
Model 250 S.P.M.								
Liner Size	5½							

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours Hauled Water to Rig

Desilter Hours J. HENDRICKS 2 hrs overtime $80.00

Desander Hours

W.L. 10 F.C. 2/32 pH 9.5 Solids

Stands 4809.46 | Singles 6263 | D. Collars 454.66 | Other Ft. 955' | C.B. Ft. | Subs. Ft. 821 | Ft. Down on Kelly 39' | TOTAL 5381.

REMARKS	Time Start	Stop	Interval
Drilling	4:00	4:30	½
Rig Serv & Bops	4:30	4:45	¼
Drilling	4:45	7:15	2½
Gan Howco Line Survey	7:15	8:00	¾
Drilling	8:00	11:15	3¼
Work on Stand Pipe	11:45	12:00	¼

With Pipe 8 Without Pipe Standby

Totco Ring on Bit No. ____ D.P. Caliper Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRUBLE	8
Floor JOE CHALIFOUX	8
Floor NARVE ROEN	8

Accidents NIL

Outside Temp. 28°-

Weather Conditions Cloudy + snow

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LEANER	8
Derrick W.R. BLAIR	8
Motor C. DAVIS	8
Floor J. EVANS	8
Floor D. HALL	8

Accidents NIL

Outside Temp. 15°

Weather Conditions SUNNY

Road Conditions FAIR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	8
Derrick NICK ANIZA	8
Motor G. MCHALEN	8
Floor G. MELBY	8
Floor R. TUPPER	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

DATE Jan. 27 1971

NABORS DRILLING LIMITED

Rig No. 10 Page No. 17 LOCATION C.P.D.G LAFICHE FOB

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5177	15	5192	1 3/4	115M	5 10	7 6	2 3/4 2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	12	8 3/4	R.X 55	3/13 7/14	9936	20-4	80	4979	5177	198	22 1/2			1-1-1
	13	8 3/4	M4L6-J	3/13	911886	5-6	80	5177	5192	15	1 3/4			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives:

At Surveys	Degree
5177	10 3/4°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS 8; Oil Added

PUMPS						
No. 1	Pressure				950	
Model C 250	S.P.M.				100	
	Liner Size				5 1/2	
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	5 1/2				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip
1 1/2		8	95		55	55		

Casing Record: Surface; Prod.

W.L. F.C. pH. Solids Cement

Stands 4619.99; Singles 63.08; D. Collars 454.66; Other Ft. 8.55; C.B. Ft.; Subs. Ft. 8.21; Ft. Down on Kelly 27.51; TOTAL 5192

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5192	36	5228	6 1/2	115M	5 10	7 6	2 3/4 2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	13	8 3/4	M4L6-J	3/13	911886	6-8	80	5177	5228	51	8 1/2			1 Drlg

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.7	8.7	8.7	8.7
VISCOSITY	36	34	35	34
GEL				

Additives: GEL 2500 #; BENEX 5 SAX; CAUSTIC 50 #; CMC (R)

At Surveys	Degree
5196	11°
5228	10°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8; Oil Added

PUMPS						
No. 1	Pressure	950	950	950	950	
Model C	S.P.M.	60	60	60	60	
	Liner Size	5 1/2 X 15				
No. 2	Pressure					
Model	S.P.M.					
	Liner Size					

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip
1 1/2	1	8	95		2	5		@ 800

Casing Record: Surface; Prod.

W.L. 12.6 F.C. 3/32 pH. 9.5 Solids Cement

Stands 4714.74; Singles 3152; D. Collars 454.66; Other Ft. 8.55; C.B. Ft.; Subs. Ft. 8.21; Ft. Down on Kelly 43; TOTAL 5228

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
5228	39	5267	6 3/4	115000	5 10	7" 6"	2 3/4 2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	13	8 3/4	M4L6J	3/13	911886	10-14	80	5177	5267	90	15			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.6	8.6	8.6	8.6
VISCOSITY	37	38	37	39
GEL				

Additives:

At Surveys	Degree
5261	9 1/2

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8; Oil Added

PUMPS						
No. 1	Pressure	950	950	950	950	
Model	S.P.M.	60	60	60	60	
	Liner Size	5 1/2				
No. 2	Pressure					
Model	S.P.M.					
	Liner Size	5 1/2				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip

Water Truck Hours 10 HRS @ 60. + 2 HRS OVERTIME = $80.00

Desilter Hours Gerald & James

Desander Hours

W.L. 12 cc F.C. 2/32 pH. 9.5 Solids

Stands 4714.74; Singles 6307; D. Collars 454.66; Other Ft. 855; C.B. Ft.; Subs. Ft. 821; Ft. Down on Kelly 18; TOTAL 5267.

Totco Ring on Bit — No. D.P Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher

B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Jan 27 1971

Rig No. 10 Report No. 17

REMARKS	Time Start	Time Stop	Time Interval
Repair Chain In Drawworks	12:00	1:00	1
Finish Trip Out	1:00	2:00	1
Rig Serv @ Blind Rams	2:00	2:15	1/4
Run In Collars Changing Stabilizer Rubber	2:15	3:00	3/4
Slip & Cut Drlg Line	3:00	4:00	1
Finish Trip In	4:00	6:00	2
Break Circ & Clean 8' Fill	6:00	6:15	1/4
Drlg 8 3/4 Hole	6:15	7:00	1 3/4

With Pipe 8 Without Pipe Standby

Drlg 8 3/4 Hole	8:00	9:00	1
Rig Serv & 4 1/2 Rams	9:00	9:15	1/4
Survey @ 5196	9:15	9:45	1/2
Drlg 8 3/4 Hole	9:45	3:15	5 1/2
Circ & Survey	3:15	4:00	3/4
			8 hrs

Tour — Midnight - 8 a.m.

Specify actual hours worked. Hrs.

		Hrs.
Driller	Donald Vig	8
Derrick	Donald Chabot	8
Motor	Donald Struble	8
Floor	Joe Chalifoux	8
Floor	Narve Roen	8

Accidents N.I

Outside Temp. 3

Weather Conditions Clear

Road Conditions Poor

With Pipe 8 Without Pipe Standby

Drlg 8 3/4 Hole	8:00	9:00	1
Rig Serv & 4 1/2 Rams	9:00	9:15	1/4
Survey @ 5196	9:15	9:45	1/2
Drlg 8 3/4 Hole	9:45	3:15	5 1/2
Circ & Survey	3:15	4:00	3/4
			8 hrs

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked. Hrs.

		Hrs.
Driller	T. Zunker	8
Derrick	W.R. Adair	8
Motor	C. Dana	8
Floor	T. Evans	8
Floor	D. Hale	8

Accidents Nil

Outside Temp. 25°

Weather Conditions Cloudy

Road Conditions Poor

With Pipe 8 Without Pipe Standby

Rig Serv & Bops	4:00	4:15	1/4
Drlg	4:15	9:30	5 1/4
Ran Howco Line Survey	9:30	10:30	1
Drlg	10:30	12:00	1 1/2
			8

Tour — 4 p.m. to Midnight

Specify actual hours worked. Hrs.

		Hrs.
Driller	H. Martin	8
Derrick	Nick Aguilar	8
Motor	Wm. Wichman	8
Floor	S. Melby	8
Floor	R. Tupper	8

Accidents Nil

Outside Temp. 37°

Weather Conditions Windy & Snowing.

Road Conditions Poor

Toolpusher Tony Jerome

Approved by H. E. Patton

DATE Jan 26 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 16 LOCATION C.P.O.G LABICHE F08

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls
5041	61	5102	6 1/2	112 000	5 / 10	7 / 6	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	12	8 3/4	RX55	3/12 1/4	9836	20 m	80	4979	5102	123	9 1/4			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT		8.6	8.7		GEL 2400	5069 9 1/2	1 8	
VISCOSITY		30	31		BENEX 10#	5099 9	2 8	
GEL		PH 10			CAUSTIC 50#		3	

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	825	825	850	850
Model C 250	S.P.M.	60	60	60	60
	Liner Size	5 1/2	5 1/2	5 1/2	5 1/2
No. 2	Pressure				
Model C 250	S.P.M.				
	Liner Size	5 1/2			

Light Plant 9 BOILER HRS 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. F.C. pH. Solids Cement

Stands 461999 | Singles | D. Collars 454.66 | Other Ft. 9.55 | C.B. Ft. | Subs. Ft. 8.21 | Ft. Down On Kelly 43.50 | TOTAL 5102

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls
5102	49	5151	7 3/4	113 000	5 / 10	7" / 6 1/2"	2 3/4 / 2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	12	8 3/4	RX 55	3/12 1/4	9836	6m	80	4979	5151	172	17 1/2			Drlg

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.7	8.8	8.8	8.8	GEL 6500#		1 8	
VISCOSITY	31	30	36	38	BENEX 12 SAX		2 8	
GEL	PH 9.5		WL 9.5		CAUSTIC 50#		3	

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	850	850	850	850
Model	S.P.M.	60	60	60	60
	Liner Size	5 1/2	X	15	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Dumped & Cleaned Shaker tank

Light Plant 8 BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. 9.5 F.C. 2/32 pH 9.5 Solids Cement

Stands 461999 | Singles 3142 | D. Collars 454.66 | Other Ft. 8.55 | C.B. Ft. | Subs. Ft. 8.21 | Ft. Down on Kelly 79 | TOTAL 5151

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal / Bbls
5151	26	5177	5	113000	10	6"	2 3/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	12	8 3/4	RX 55	2/13 1/4	9836	10-4	80	4979	5173	194	22 1/2			1-2-WT

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.9	8.8	8.7	8.7	GEL 10 SAX.	5165 11°	1 8	
VISCOSITY	39	39	37	38	BENEX 2 SAX.		2 4	
GEL	PH 9.5	9.5	9.5	9.5			3	

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	850	850	850	850
Model C 250	S.P.M.	60	60	60	60
	Liner Size	5 1/2			
No. 2	Pressure				
Model C 250	S.P.M.	60			
	Liner Size	5 1/2			

Light Plant 8 BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours 10hrs @ $60 + 2 hrs overtime is $80.00

Desilter Hours J. HENDRICKS BOX 386

Desander Hours DAWSON CREEK BC

Stands 461999 | Singles 3242 | D. Collars 454.66 | Other Ft. 95.11 | C.B. Ft. | Subs. Ft. 9.21 | Ft. Down on Kelly 21 | TOTAL 5177

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Tony Power

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Toolpusher Tony Power

Approved by H.E. Kydell

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE JAN 26 19 71

Rig No. 10 Report No. 16

REMARKS	Time Start	Time Stop	Time Interval
Drlg 8 3/4 Hole w/ 20 000 WOB	12:00	1:15	1 1/4
R.S. Serv @ 4/2 Pumps	1:15	1:30	1/4
Survey @ 5069 - 9 1/2°	1:30	2:15	3/4
Drlg w/ 16 000 WOB	2:15	6:30	4 1/4
Survey @ 5099	6:30	7:30	1
Drl G	7:30	8:00	1/2

With Pipe 8 Without Pipe Standby

Drlg 8 3/4 Hole	8:00	1:00	5
R.S. Serv & HYDRILL O.K	1:00	1:15	1/4
Drlg 8 3/4 Hole	1:15	4:00	2 3/4
			8 hrs

With Pipe 8 Without Pipe Standby

DRLG	4:00	4:15	1/4
R.S. SER	4:15	4:30	1/4
DRLG.	4:30	5:45	1 1/4
SURVEY @ 5165'	5:45	6:30	3/4
DRLG.	6:30	10:00	3 1/2
SURVEY @ 5173.	10:00	10:15	1/4
HOISTING TO CHANGE BIT	10:15	12:00	1 3/4
			8

With Pipe 8 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CHABOT	8
Motor DONALD STRIBLE	8
Floor JOE CHALIFOUX	8
Floor MARVE ROEN	8

Accidents N.I
Outside Temp. 30° —
Weather Conditions windy
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. TEAGER	8
Derrick W.B. ADAIR	8
Motor C. DANA	8
Floor T. EVANS	8
Floor D. HALL	8

Accidents N.I.L
Outside Temp. 20°
Weather Conditions SNOW
Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T.M. MARTIN	8
Derrick NICK ANIALA	8
Motor WM. WYCHOPEN	8
Floor G. MELBY	8
Floor R. TUPPER	8

Accidents N.I.L
Outside Temp. 35°
Weather Conditions CLEAR.
Road Conditions POOR.

DATE Jan 25 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE JAN 25 19 71

Rig No. 10 Page No. 15 LOCATION C.P.O.G LABICHE F08

Rig No. 10 Report No. 15

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4840	88	4928	6	112M	5 / 10	7 / 6	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	11	8¾	SMG-5	3-14	685598	20M	80	4800	4928	128	8½			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT		8.5	8.6	8.6	GEL 18 SAX	4848 6½	1 7½	
VISCOSITY		28	29	32	BENEX 6		2 7½	
GEL					CAUSTIC 150#		3	
					CMC 50#		Light Plant 8	
							BOILER HRS 8	

PUMPS		No. 1	No. 2
	Model	GD	
	Pressure	650	650 650
	S.P.M.	60	60 60
	Liner Size	5½	5½ 5½

Size	TRIPS	No. Liner	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface CHANGED OIL IN F1 + 2 — Prod. TORQUES — Cement

W.L. 17.0 F.C. — pH. 10.6 Solids

Stands	4838.88
Singles	8
D. Collars	454.66
Other Ft.	8.55
C.B. Ft.	
Subs. Ft.	9.21
Ft. Down On Kelly	23.36
TOTAL	4928

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole	12:00	12:15	¼
Rig Serv @ 4½ Pump - Flush	12:15	12:30	¼
Change Oil In Drawworks	12:30	12:45	¼
Drlg 8¾ Hole	12:45	2:15	1½
Work On Stalled Motors	2:15	2:45	½
Drlg 8¾ Hole - 20 MM WOB	2:15	4:15	1½
Survey @ 4988 - 6½°	4:15	5:15	1
Drlg 8¾ Hole - 25 MM WOB	5:15	8:00	2¾
3 Men Worked Over Building			
Prefab House Over Flare Manifold			

With Pipe 8 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD UIC	8
Derrick DONALD ERBECT	8
Motor DONALD STUBBS	8
Floor JOE CHALIFOUX	8
Floor NORVIE ROEN	8

Accidents NIL
Outside Temp. 35° —
Weather Conditions Clear
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4928	51	4979	5	112M	5 / 10	7 / 6	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	11	8¾	SMG-5	3-14	685598	15	78	4800	4979	179	13½			TRIP 1-1

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.7	8.7	8.7	T	GEL 2200		1 8	
VISCOSITY	31	31	31	R	BEN-EX 4 SX		2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS		No. 1	No. 2
	Model	GD	
	Pressure	750	750 750
	S.P.M.	60	60 60
	Liner Size	5½	5½

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface — Prod. — Cement

W.L. F.C. pH. Solids

Stands	4433.22
Singles	7.60
D. Collars	454.66
Other Ft.	8.55
C.B. Ft.	
Subs. Ft.	8.21
Ft. Down on Kelly	4.1
TOTAL	4979

REMARKS	Time Start	Stop	Interval
Drlg 8¾ Hole	8:00	9:45	1¾
Rig Serv & HyDrill & Motor Shut off OK.	9:45	10:00	¼
Drlg 8¾ Hole	10:00	1:15	3¼
Drop Survey	1:15	1:30	¼
Trip Out	1:30	4:00	2½

With Pipe 8 Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick W.R. ADAIR	8
Motor C. DANA	8
Floor J. EVANS	8
Floor D. HALL	8

Accidents NIL
Outside Temp. 22-
Weather Conditions Clear
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4979	62	5041	3¾	112.000	5 / 10	7" / 6"	2¾ / 2¾				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	12	8¾	RX-55	3/13 1/14	9836	20.000	75	4979	5041		3¾			RUNNING

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT				8.6	GEL F HOD.	4979 0°	1 8	
VISCOSITY				31	BENEX 1 SACK.		2 8	
GEL							3	
				825			Light Plant 8	
				60			BOILER HRS. 8	
				5½				

PUMPS		No. 1	No. 2
	Model	F-2.5	F-350
	Pressure		
	S.P.M.	60	
	Liner Size	5½	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours: Basic Labor @ $6.00 — J. HENDRICKS BOX 386
Desilter Hours: Rental Rate 6.00 — DAWSON CREEK B.C.
Desander Hours:

W.L. F.C. pH. Solids.

Stands	4536.11
Singles	
D. Collars	
Other Ft.	8.55
C.B. Ft.	
Subs. Ft.	8.21
Ft. Down on Kelly	43.00
TOTAL	5041

REMARKS	Time Start	Stop	Interval
RIG SER. & BLIND RAM	4:00	4:15	¼
RAN IN HOLE	4:15	8:00	3¾
BRK CIRC & CLEAN TO BTM	8:00	8:15	¼
DRLG 8¾" HOLE.	8:15	12:00	3¾
5' FILL.			

With Pipe 8 Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller TIM MARTIN	8
Derrick NICK ANALIA	8 12
Motor WM. WYCHOPEN	8
Floor G. MELBY	8
Floor R. TUPPER	8

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Toteo Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs Approved by ____ Approved by

DATE Jan 24 19 71

NABORS DRILLING LIMITED

Rig No. 10 Page No. 14 LOCATION C.B.O.G. LABICHE FOR

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Jan 24 19 71

Rig No. 40 Report No. 14

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3730	4	3738	1/2	110M	5 / 10	7 / 6	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	10	9 7/8	SSIG-J	10T	880276	5		3730	3738	8	1/2			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Pressure	450													
Model C 250	S.P.M.	60													
	Liner Size														
No. 2	Pressure														
Model C 250	S.P.M.														
	Liner Size														

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 423837 | Singles | D. Collars 454.66 | Other Ft. | C.B. Ft. | Subs. Ft. 821 | Ft. Down On Kelly 23.50 | TOTAL 3738 | Next Slip

REMARKS	Time Start	Stop	Interval	
WORK ON REMOTE	12 00	3 00	3	R
CONTROL VALVE				
PRESSURE UP ON HYDRIL	3 00			
LEAKED ON VALVES				
REPAIR SAME		3 45	3/4	
PRESSURE TEST HYDRIL	3 45			
TO 2000 PSI HELD GOOD				
END OF MAN		4 00	1/4	
DRAIN UP MANIFOLD	4 00	4 30	1/2	
DRILL FLOAT. CEMENT & SHOE	4 30	7 30	3	
DRILL 8 3/4 HOLE	7 30	8 00	1/2	

With Pipe 5 Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3738	62	4800	5	113M	5 / 10	7 / 6	2 1/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	10	8 3/4	SSIG-J	6 OUT	880276	20	80	3730	4800	70	5 1/2	-		TR
														5-1-1

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			9.7		GEL 10.00 #		1 8	
VISCOSITY			26		B.CARB 300 #		2 8	
GEL					RENEX 4 #		3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Pressure														
Model	S.P.M.														
	Liner Size														
No. 2	Pressure														
Model	S.P.M.														
	Liner Size														

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 429910 | Singles | D. Collars 454.66 | Other Ft. | C.B. Ft. | Subs. Ft. 9.43 | Ft. Down on Kelly 28 | TOTAL 4800 | Next Slip

REMARKS	Time Start	Stop	Interval	
R.G SERV & HYDRILL	8 00	8 15	1/4	
DRLG 8 3/4 HOLE	8 15	1 15	5	
TRIP OUT	1 15	4 00	2 3/4	
			8 hrs	
DOUBLE STRAP PIP				
DRILLERS TALLY 4800.00				
S.L.M. 4799.97				
.03 UNDER HOLE				
NO CORRECTION MADE				

With Pipe 8 Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4800	40	4840	2 1/2		5 / 10	7" / 6"	2 3/4 / 2 3/4				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	11	8 3/4	SMG-J3-14	6855	820.00		40	4800	4840	40	2 1/2			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT						4905 7°	1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS															
No. 1	Pressure			650	650										
Model C 250	S.P.M.			60	60										
	Liner Size														
No. 2	Pressure														
Model C 250	S.P.M.														
	Liner Size														

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands 433950 | Singles | D. Collars 454.66 | Other Ft. 855 | C.B. Ft. | Subs. Ft. 821 | Ft. Down on Kelly 2950 | TOTAL 4940.42 | Next Slip

REMARKS	Time Start	Stop	Interval	
RIG SER	4 00	4 15	1/4	
HOISTING	4 15	5 00	3/4	
PICK UP STABILIZER	5 00	5 30	1/2	
RAN IN HOLE	5 30	8 15	2 3/4	
BRK PIPE & CLEAN TO BTM	8 15	8 30	1/4	
DRLG	8 30	9 00	1/2	
RAN HOWCO LINE SUR.	9 00	10 00	1	
DRLG	10 00	12 00	2	
			5	

With Pipe 8 Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller DONALD VIG	8
Derrick DONALD CARAT	8
Motor DONALD STEUBLE	8
Floor JOE CHALIFOUX	8
Floor NARUE RAEN	8

Accidents Nil
Outside Temp. 30° -
Weather Conditions Clear
Road Conditions Poor

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LENNER	8
Derrick	
Motor C. DANA	8
Floor J. EVANS	8
Floor D. HALL	8

Accidents Nil
Outside Temp. 30°
Weather Conditions CLOUDY
Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller JIM MARTIN	8
Derrick NICK ADALIA	8
Motor WM WYEHOPEN	8
Floor B. MELA	8
Floor R. TUPPER	8

Accidents NIL
Outside Temp. 37°
Weather Conditions CLEAR.
Road Conditions POOR.

Toolpusher Jerry Powell

Toteo Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by H. E. Aylesworth

DATE Jan 23 19 71

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Jan 23 1971

Rig No. 10 Page No. 13 LOCATION C.P.O.G. LABICHE F08

Rig No. 10 Report No. 13

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4130					5 / 10	7 / 6	2 1/4 / 2 7/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	10	8 3/4	SSIG-J	out	880276									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3 8	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Pressure											
Model C 250	S.P.M.											
	Liner Size	5 1/2										
No. 2	Pressure											
Model C 250	S.P.M.											
	Liner Size	5 1/2										

Casing Record: Surface / Prod. / Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars 454.66 / Other Ft. / C.B. Ft. 67.5 Sub 96 / Subs. Ft. 7.25 / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
R.U. Swivel	12:00	12:15	1/4
Tighten Flange Bolts On Manifold	12:15	12:45	3/4
Pick Up Collars - Stabilizer	12:45		
Caliper + Measure In			
Pick Up + Trip In Pipe		4:45	4
Thaw Mix Lines To Drawworks	4:45	5:15	1/2
Pick Up + Run In Pipe	5:15	8:00	2 3/4
4 Men Worked Over Helping Welder + Building Protec-Sub Structure	8:00	12:00	4

With Pipe 7 Without Pipe Standby 1

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller Donald Wig	12
Derrick Donald Chabot	12
Motor Donald Stauble	12
Floor Joe Chalifoux	12
Floor Narve Roen	8

Accidents Nil
Outside Temp. 5°-
Weather Conditions Cloudy
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
					5 / 10	7 / 6	2 1/4 / 2 7/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	11	8 3/4	SSIG-J	out	880276									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Pressure											
Model	S.P.M.											
	Liner Size											
No. 2	Pressure											
Model	S.P.M.											
	Liner Size											

Casing Record: Surface / Prod. / Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars 454.66 / Other Ft. / C.B. Ft. 67.5 Sub 96 / Subs. Ft. 7.25 / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
R.U. Sea Close Hydril	8:00		
Check Motor Shut Offs		8:15	1/4
Picking up 4 1/2 P.D.E	8:15	8:30	1/4
Hoist out Lay Down Stabilizer	8:30	9:30	1
T.R.P in w/ Bit	9:30	10:00	1/2
Picking up 4 1/2 P.D.E	10:00	4:00	6
			8 hrs
STEAK FLARE LINE DOWN AND REPAIR SUB PILLARS	4:00	5:00	1

With Pipe 8 Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. Junior	
Derrick ~	
Motor C. Hanks	
Floor James Evans	
Floor D. Hall	

Accidents Nil
Outside Temp. 10°
Weather Conditions Snow
Road Conditions Poor

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Pressure											
Model	S.P.M.											
	Liner Size											
No. 2	Pressure											
Model	S.P.M.											
	Liner Size											

Water Truck Hours / Desilter Hours / Desander Hours

W.L. F.C. pH. Solids.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
R.U. Sea and 4 1/2 Rams	4:00	4:15	1/4
Pick up P.D.E	4:15	8:00	3 3/4
Break Circ Displace Mud out of Hole	8:00	9:00	1
Press. upon Pipe Rams to 2,000 PSI OK for 15 mins	9:00	10:00	1
Work on Accumulator Remote Control	10:00	12:00	2

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Tim Martin	12
Derrick Nick Aulakh	12
Motor Wm. Wychopen	12
Floor G. Melby	8
Floor R. Tupper	8

Accidents Nil
Outside Temp. 26°
Weather Conditions Clear
Road Conditions Poor

Toco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher Tom Payne

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
205 NINTH AVENUE S. E.
CALGARY 21, ALBERTA

CPOG ET AL LABICHE #F-08
60° 37' 30" N. 124° 31' 00" W.

Weekly Drilling Report for the Week Ending March 31, 1970

March 25, 1970

Depth: 4730' Progress: Nil Status: Running in to clean out.
Mud: 9.3, Visc: 80,
Hole condition: Good
7 @ 4730
Ran DILL, IES, SGRC, DIPOMETER

March 26, 1970

Depth: 4730' Progress: Nil Status: Running 9 5/8 intermediate casing.
Mud: 9.3, Visc: 80
Hole condition: Good

March 27, 1970

Depth: 4730' Progress: Nil Status: Laying down drill pipe.
Mud: 9.3, Visc: 80
Hole condition: Good
Joints 17, Size 9 5/8, Wt. 40, Grade W80, Lth. 647.04'
Joints 38, Size 9 5/8, Wt. 40, Grade K55, Lth 1107.11'
Joints 72, Size 9 5/8, Wt. 36, Grade K55, Lth 2984.42'
Landed @ 4730' cemented w/ 575 sax oilwell + 12% gel + .8% HR7, 475 sax oilwell + 2% gel + .8% HR7
P.D. @ 4:05 P.M. March 26, 1970.

March 28, 1970

Suspended operations until winter of 1970-1971.

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
205 NINTH AVENUE S.E.
CALGARY 21, ALBERTA

CPOG ET AL LABICHE #F-08
60° 37' 30" N. 124° 31' 00" W.

Weekly Drilling Report for the Week Ending March 24, 1970

March 18, 1970

Depth: 4232' Progress: 61 Status: Drilling
Mud: 9.1, Visc: 60, W.L.: 5.2, F.C.: 2/32, pH: 10.5
Hole condition: Fair, Fill: 90'
6 @ 4171

March 19, 1970

Depth: 4323' Progress: 91' Status: Tripping
Mud: 9.2, Visc. 62, W.L.: 5.4, F.C. 2/32, pH: 10.5
Hole condition: Good
6 3/4 @ 4244

March 20, 1970

Depth: 4403, Progress: 80' Status: Repairing DWK
Mud: 9.2, Visc: 56, W.L.: 5.8, F.C. 2/32, pH: 10.5
Hole condition: Good, Fill: 25'
7½ @ 4323, 7 @ 4367

March 21, 1970

Depth: 4514' Progress: 111 Status: Drilling
Mud: 9.2, Visc: 58, W.L. 5.6, F.C. 2/32, pH: 9.5
Hole condition: Good
6½ @ 4428, 7 @ 4458

March 22, 1971

Depth: 4590, Progress: 76', Status: Drilling
Mud: 9.2, Visc: 54, W.L.: 5.6, F.C. 2/32, pH: 9.5
Hole condition: Good, Fill: 70
7 @ 4521
7 @ 4582

March 23, 1970

Depth: 4701, Progress: 111, Status: Drilling
Mud: 9.2, Visc: 50, W.L. 5.6, F.C. 2/32, pH: 9.5
Hole condition: Good
6½ @ 4614, 7 @ 4645, 7 @ 4676

March 24, 1970

Depth: 4730, Progress: 29, Status: Tripping
Mud: 9.3, Visc: 80, W.L.: 5.8, F.C. 2/32, pH: 10.0
Hole condition: Good
8 @ 4707

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
205 NINTH AVENUE S. E.
CALGARY 21, ALBERTA

CPOG ET AL LABICHE #F-08
60° 37' 30" N. 124° 31' 00" W.

Weekly Drilling Report for the Week Ending March 17, 1970

March 11, 1970	Depth: 3230', Progress: 126', Status: Drilling Mud: 8.9, Visc. 50, W.L. 6.2, F.C. 2/32 pH 9.5 3½ @ 3156
March 12, 1970	Depth: 3369', Progress: 139', Status: Drilling Mud: 8.9, Visc. 58, W.L. 6.2, F.C. 2/32, pH 10.0 4½ @ 3248, 4 3/4 @ 3310
March 13, 1970	Depth: 3494' Progress: 125' Status: Drilling Mud: 8.9, Visc: 55, W.L.: 6.0, F.C.: 2/32, pH: 10.0 4½ @ 3358, 4 @ 3401, 4½ @ 3463 Hole condition: Good Fill: Nil
March 14, 1970	Depth: 3625' Progress: 131' Status: Drilling Mud: 8.9, Visc: 51, W.L.: 6.2, F.C.: 2/32, pH: 10.0 Hole condition: Good Fill: 60' 2½ @ 3520, 1 3/4 @ 3596
March 15, 1970	Depth: 3830; Progress: 205, Status: Drilling Mud: 8.9, Visc: 53, W.L.: 6.6, F.C: 2/32, pH: 10.0 Hole condition: Good 2½ @ 3657, 3 @ 3718, 2½ @ 3750, 3½ @ 3810
March 16, 1970	Depth: 4020' Progress 190, Status: Drilling Mud: 9.0, Visc: 60, W.L.: 6.2, F.C.: 2/32, pH: 10.0 3 3/4 @ 3874, 4½ @ 3934, 4½ @ 3995
March 17, 1970	Depth: 4171, Progress 151, Status: Tripping Mud: 9.0, Visc: 65, W.L.: 6.0, F.C. 2/32, pH: 10.0 5 @ 4057, 6 @ 4119 Hole condition: Good

CENTRAL-DEL RIO OILS LIMITED
CANADIAN PACIFIC OIL AND GAS LIMITED
205 NINTH AVENUE S. E.
CALGARY 21, ALBERTA

CPOG ET AL LABICHE #F-08
60° 37' 30"N. 124° 31' 00"W.

Weekly Drilling Report for the Week Ending March 10, 1970

March 4, 1970	Depth: 1654' Progress: 607' Status: Drilling Mud: 9.0 Visc: 35 3/4 @ 1068, ½ @ 1253, 1 1/8 @ 1442, 3/4 @ 1503, 3/4 @ 1598
March 5, 1970	Depth: 1856' Status: Drilling
March 6, 1970	No Report
March 7, 1970	Depth: 2582' Progress: 277' Status: Drilling Mud: 8.8 Visc. 38 2½ @ 2288, 4½ @ 2348, 4 @ 2378, 3 3/4 @ 2410, 3½ @ 2441, 3½ @ 2470
March 8, 1970	Depth: 2713' Progress: 231' Status: Drilling Mud: 8.8 Visc. 38 W.L. 9.6 F.C. 2 pH 9.5 P.V. 19 2 3/4 @ 2530, 2 3/4 @ 2624
March 9, 1970	Depth: 2878' Progress: 165' Status: Drilling Mud: 8.9 Visc. 45, W.L. 7.2, F.C. 2/32, pH: 9.5 1 3/4 @ 2717, 1½ @ 2795
March 10, 1970	Depth: 3104, Progress 226, Status: Drilling Mud: 8.9, Visc. 45, W.L. 7.4, F.C. 2/32, pH 10.0 2 @ 2872, 2 @ 2903, 2½ @ 2964

DATE ..... 19 .....

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE ..... 19 .....

Rig No. ..... Page No. ..... LOCATION .....

Rig No. ..... Report No. .....

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
PUMPS No. 1 Pressure							BOILER HRS.	
PUMPS No. 1 Model / S.P.M.								
PUMPS No. 1 Liner Size								
PUMPS No. 2 Pressure								
PUMPS No. 2 Model / S.P.M.								
PUMPS No. 2 Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. F.C. pH. Solids Cement

Standr / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL / Next Slip

REMARKS	Time Start	Stop	Interval
F [illegible]			
S [illegible]			
N [illegible]			
P [illegible]			
D.C.'s			
L [illegible] D.C.'s			
Hun DP in Hole			
L.D. DRILL PIPE			

With Pipe / Without Pipe / Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
PUMPS No. 1 Pressure							BOILER HRS.	
PUMPS No. 1 Model / S.P.M.								
PUMPS No. 1 Liner Size								
PUMPS No. 2 Pressure								
PUMPS No. 2 Model / S.P.M.								
PUMPS No. 2 Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

F.C. pH. Solids Cement

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL / Next Slip

REMARKS	Time Start	Stop	Interval
[illegible]			
[illegible]	3:00	12:00	9
[illegible]	12:00	6:00	6
[illegible]			
Kill Rotated Hose Unloaded Kelly			
Rotated Kelly			
Hun DP Balanced 27/70			
Hung Kelly			

With Pipe / Without Pipe / Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
PUMPS No. 1 Pressure							BOILER HRS.	
PUMPS No. 1 Model / S.P.M.								
PUMPS No. 1 Liner Size								
PUMPS No. 2 Pressure								
PUMPS No. 2 Model / S.P.M.								
PUMPS No. 2 Liner Size								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL / Next Slip

REMARKS	Time Start	Stop	Interval
Cover Mud Piles	100	500	4
Cleaning And Racking	500		
Up Around Loose		900	4
			8

With Pipe / Without Pipe / Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. [illegible]	8
Derrick [illegible]	8
Motor [illegible]	8
Floor [illegible]	8
Floor [illegible] T.	8

Accidents N.I.L.

Outside Temp. 3°

Weather Conditions [illegible]

Road Conditions [illegible]

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller E. KRAWCHUK	10
Derrick O. WARSTAFF	10
Motor E. DYCK	10
Floor D. WAYNE FARRIS	10
Floor M. BYSTEDZKI	10

Accidents N.I.L.

Outside Temp. 25°

Weather Conditions SNOW

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. SPRAGUE	8
Derrick K. KIRKLAND	8
Motor E. JOHNSVILLE	8
Floor R. BURNETT	8
Floor R. CAMBELL	8

Accidents N.I.L.

Outside Temp. - 25°

Weather Conditions OVERCAST

Road Conditions FAIR

Toteo Ring on Bit No. ..... D.P. Calipered Date ..... Results ..... From Pipe Rack ..... Total Contractor Time ..... Hrs. Toolpusher ..... Toolpusher

B.O.P. Test-Operated ..... Time ..... Results ..... Total Company ..... Hrs. Approved by ..... Approved by

DATE MARCH 24 19 7C

NABORS DRILLING LIMITED

Rig No. 10 Page No. 35 LOCATION C-96 E/SE LAPRAIRIE P.Q.

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 24 19 7C

Rig No. 10 Report No. 35

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1730											

Stands 4-335.5' | Singles | D. Collars 364.45' | Other Ft. 330 | C.B. Ft. | Subs. Ft. 3.26 | Ft. Down On Kelly 9.05 | TOTAL 4732

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 9	
VISCOSITY							2 6	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS: No. 1 Model — Pressure, S.P.M., Liner Size; No. 2 Model — Pressure, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

EXTRA HRS RUNNING Csg

REMARKS	Time Start	Stop	Interval
RUNNING 9⅝ Csg	12⁰⁰	8⁰⁰	8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. MCEWEN	11
Derrick L. CHAPMAN	13
Motor R. MOON	11
Floor B. GIBEAU	13
Floor B. HOWE	10
Rotns. C GUNSREY	14

Accidents

Outside Temp 25°

Weather Conditions CLEAR

Road Conditions PACKED

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1730											

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS: No. 1 Model — Pressure, S.P.M., Liner Size; No. 2 Model — Pressure, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

REMARKS	Time Start	Stop	Interval
RUNNING 9⅝ CSG	6⁰⁰	11⁰⁰	3
CIRC CSG	11⁰⁰	11⁵	3/4
CEMENT CSG PLUG DOWN	11⁵	1⁰⁰	
HOOK UP		4⁰⁰	3 1/4
Ran 127 Jts 9⅝ Csg N-80 & K-55 - 40# & 36#			
[illegible]			
[illegible]			
[illegible]			
[illegible]			

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Ed KERWCHUK	12
Derrick D. WASSENAR	12
Motor E. DYCK	12
Floor DONAYNE ERVIS	12
Floor N. EASTERLO	12
R. CAMPBELL	16

Accidents N.C.

Outside Temp. 25°

Weather Conditions CLOUDY

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1730											

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS: No. 1 Model — Pressure, S.P.M., Liner Size; No. 2 Model — Pressure, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet	Slip or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

REMARKS	Time Start	Stop	Interval
W.O.C.	4⁰⁰		
LIFT B.O.P.			
CUT OFF CSG.			
CLEAN MUD TANKS			
DRAIN PUMPS & PUT OIL IN			
SAME		12⁰⁰	8

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor E. SOMERVILLE	8
Floor R. BOISVERT	8
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Toolpusher Tony Pierson

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 25 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 34 LOCATION C.P.O.G. ETAL LABICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 25 1970

Rig No. 10 Report No. 34

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT						4730 5°	1	
VISCOSITY							2	
GEL							3	

PUMPS																
No. 1	Pressure															
Model	S.P.M.															
	Liner Size															
No. 2	Pressure															
Model	S.P.M.															
	Liner Size															

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 33 5.5

Singles

D. Collars 3½ 4.15

Other Ft. 2.20

C.S. Ft.

Subs. Ft. 3.26

Ft. Down On Kelly

Light Plant 3

BOILER HRS. 8

TOTAL 4732

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	72	73			20-GAL INHIBITOR		1	
VISCOSITY		42					2	
GEL							3	

PUMPS																
No. 1	Pressure		1000													
Model	S.P.M.		57													
	Liner Size															
No. 2	Pressure															
Model	S.P.M.															
	Liner Size															

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.S. Ft.

Subs. Ft.

Ft. Down on Kelly

Light Plant 1.5

BOILER HRS. 4

TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3 8	

PUMPS																
No. 1	Pressure															
Model	S.P.M.															
	Liner Size															
No. 2	Pressure															
Model	S.P.M.															
	Liner Size															

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.S. Ft.

Subs. Ft.

Ft. Down on Kelly

Light Plant 61-8

BOILER HRS. 5

TOTAL

REMARKS	Time Start	Time Stop	Time Interval
LOGGING W/ SCHLUMBERGER	12⁰⁰	5⁰⁰	5
LAY DOWN LOGGING TOOLS	5⁰⁰	5³⁰	½
W.O.O	5³⁰	8⁰⁰	2½
			8 HRS

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Time Stop	Time Interval
RIG SERVICE	9¹⁵	9³⁰	¼
TRIP IN	9³⁰	10³⁰	1
CIRC TO FOR CASE.	10³⁰	11⁰⁰	1½
TRIP OUT	11⁰⁰	1⁰⁰	2
RIG TO RUN CASE	1⁰⁰	2⁰⁰	1
CHANGE FROM 4½ TO 9 5/8 DP RAMS			1
EXTRA MAN CLEAN PAINT UP RIG			8 HRS

With Pipe / Without Pipe / Standby

REMARKS	Time Start	Time Stop	Time Interval
PICKING UP 9⅝ CSG. WELD GUIDE SHOE FLOAT COLLAR AND THREAD COLLAR	4⁰⁰		
RUNNING 9 5/8 CSG.		12⁰⁰	8
EXTRA HRS PICKING UP 9 5/8 CSG			

With Pipe / Without Pipe / Standby

Accidents NIL

Outside Temp. 15°

Weather Conditions CLOUDY

Road Conditions POOR

Tour — Midnight - 8 a.m. Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHADMAN	8
Motor R. MOON	8
Floor B. GIVEN	8
Floor B. HOWE	8

Accidents NIL

Outside Temp. 25

Weather Conditions CLOUDY SNOW

Road Conditions POOR

Tour — 8 a.m. to 4 p.m. Specify actual hours worked.	Hrs.
Driller E. KRAUCHUK	8¼
Derrick D. WIRESTAFF	8¼
Motor E. DYER	8¼
Floor DWAYNE ENNS	8¼
Floor N. BUSTERVELO	8¼
R. CAMBELL	8

Accidents

Outside Temp.

Weather Conditions SNOWING

Road Conditions POOR

Tour — 4 p.m. to Midnight Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	9
Motor E. SOMERVILLE	16
Floor R. BOISVERT	14
Floor	

Toto Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 24 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 24 1970

Rig No. 10 Page No. 33 LOCATION C-06 FT. AL. LADICHE F-08

Rig No. 10 Report No. 33

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4150				104,000	12	7¼	2⅞	40,000			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	9	12¼	SS2G	3-18	651773		45	4532	4150	618	46			1-1

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Model	S.P.M. / Liner Size / Pressure	1½	3½	8	340	340	—	—	—	1300
No. 2	Model	S.P.M. / Liner Size / Pressure									

Casing Record: Surface / Prod. / Cement

W.L. F.C. pH. Solids

Stands 4395.5 | Singles | D. Collars 364.15 | Other Ft. 2.20 | C.B. Ft. | Subs. Ft. 3.26 | Ft. Down on Kelly 3.26 | TOTAL

REMARKS	Time Start	Time Stop	Interval
FINISH TRIP OUT	12⁰⁰	12⁴⁵	¾
RIG SER & BOPs	12⁴⁵	1⁰⁰	¼
LAY DOWN 9" COLLARS	1⁰⁰		
HAVING A HARD TIME BREAKING			
SAME		3³⁰	2½
TRIP IN AND STRAP PIPE	3³⁰		
AND COLLARS		6⁰⁰	2½
BREAK CIR. PUMP DOWN	6⁰⁰		
SINGLES TO BOTTOM		Loc	K
		5 HRS	

With Pipe / Without Pipe / Standby

Accidents NIL
Outside Temp. +5°
Weather Conditions CLOUDY
Road Conditions GOOD

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LAFLEUR	8
Derrick A. CHADMAN	8
Motor R. MOON	8
Floor B. STOVER	8
Floor B. HOWE	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4150	10.			106,000	12	7	2⅞				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
			RR FDA	HAT 9	CLEAN OUT									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	62	72	73	93	GG 3500#	4730 F	1 8	
VISCOSITY	72	76	88	115	DVG2 4½ Calc		2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Model C-250	S.P.M. 50 / Liner Size 6½ / Pressure 950									
No. 2	Model C-250	S.P.M. 50 / Liner Size 6½ / Pressure 950									

Casing Record: Surface / Prod. / Cement

W.L. 8 F.C. 2/32 pH. 9.5 Solids

Stands 4395.5 | Singles | D. Collars 364.15 | Other Ft. 2.20 | C.B. Ft. | Subs. Ft. 3.26 | Ft. Down on Kelly 3.26 | TOTAL 4732.

REMARKS	Time Start	Time Stop	Interval
CLEAN TO 4701 — 30	8⁰⁰	8³⁰	½
CIRC TO LOG CON HOLE	2³⁰		
6 mud		12³⁰	4
SURVEY @ 4730	12³⁰	12⁴⁵	¼
TRIP TO LOG	12⁴⁵	3⁰⁰	2¼
RIG TO LOG W/SCHLUMBERGER	3⁰⁰	4⁰⁰	1
			8
EIGHT MEN DAYLIGHT			
RAN			
DW2			

With Pipe / Without Pipe / Standby

Accidents
Outside Temp. 30°
Weather Conditions CLOUDY
Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller EA KRAWCHUK	8
Derrick D GIACSTAFF	8
Motor F DICK	8
Floor DWAYNE EVANS	8
Floor N BYSTERVELD	8
C GURSKEY	8
RAY CAMBELL	

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL 46 Gals. 9:00 P.M.	WATER Bbls.	CRUDE Gal. / Bbls.
4730											

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS. 8	

PUMPS			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
No. 1	Model C-250	S.P.M. / Liner Size 6½ / Pressure									
No. 2	Model C-250	S.P.M. / Liner Size 5½ / Pressure									

Water Truck Hours
Desilter Hours
Desander Hours

W.L. F.C. pH. Solids

REMARKS	Time Start	Time Stop	Interval
SCHLUMBERGER RUNNING LOGS	4⁰⁰	12⁰⁰	8
DUAL INDUCTION			
SONIC GAMMA RAY CALIPER			

With Pipe / Without Pipe / Standby

Accidents NIL
Outside Temp. +30
Weather Conditions CLOUDY
Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Toto Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 23 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 23 1970

Rig No. 10 Page No. 32 LOCATION CROSS EMA LEDUC F-09

Rig No. 10 Report No. 32

Bit Record

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4663	38	4701	7¼	110,000	15	9 1/4	2 7/8	56,000	5 Gals.	Bbls.	Gal. / Bbls.

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
9	12¼	SS16	3/20 3/18	651773	35/40	45	4534	4701	167	5¼			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.2	9.2	9.2	9.2	GEL - 1000#	4676 7°	1 5	
VISCOSITY	52	53	50	50	DV-65 - 1 gal		2 5	
GEL					CYPAN - 2 1/2 gal		3	

PUMP		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	900	900	900	900
Model 7½	S.P.M.	56	56	56	56
	Liner Size	6½	"	12	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Light Plant 8 — BOILER HRS. 5

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
1½	25	8	180	180	—	—	—	—	1000

Casing Record: Surface — Prod.

Wt. 5.6 F.C. 2/32 pH 9.5 Solids 7 Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
418.37		453.35	28.16		22.0		4701

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4701	31	4732	7¼	115,000	15	9 1/4	2 1/2		Gals.	Bbls.	Gal. / Bbls.

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
9	12¼	SS16	3/20 3/18	651773	35/40	45	4534	4732	198	19¼			DRLG

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.3	9.2	9.3	9.2	GEL 5000#	4700 5°	1 8	
VISCOSITY	52	57	65	61	DUO-VIS - 1 gal		2 8	
GEL					CEMENT - TOP OF FORM		3	

PUMP		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	900	900	900	900
Model 250	S.P.M.	56	56	56	56
C	Liner Size	6½	"	"	
No. 2	Pressure				
Model C	S.P.M.				
350	Liner Size	5½	"	"	

Light Plant 8 — BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip
1½		8	180		—	—	—		1000

Casing Record: Surface — Prod.

Wt. 5.6 F.C. 2/32 pH 10 Solids — Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL
419.37	60.57	453.35	28.16		2.20	12.35	4740.00

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4732	8	4740	4	115,000	15	9 1/4	2 1/6	52000	Gals.	Bbls.	Gal. / Bbls.

Bit No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
2	12¼	SS16	3/20 3/16	51773	20	45	4534	4740	206	4 6			TRIP

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.3	9.2	9.3				1 8	
VISCOSITY	55	55	50				2 8	
GEL							3	

PUMP		4 p.m.	6 p.m.	8 p.m.
No. 1	Pressure	900	900	900
Model 250	S.P.M.	56	56	56
C	Liner Size	6½		
No. 2	Pressure			
Model	S.P.M.			
350	Liner Size	5½		

Light Plant 8 — BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Off	Cut	Feet Left on Spool	Next Slip

Water Truck Hours — Desilter Hours — Desander Hours

Wt. 9.4 F.C. 2/32 pH 11.0 Solids

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	8
Floor G. GIVEN	8
Floor B. HOWE	8

Accidents NIL

Outside Temp 25°

Weather Conditions CLEAR

Road Conditions POOR

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	12 00	2 15	2¼
COND RIG SER. AND SURVEY	2 15		
@ 4676 7°		3 00	¾
DRLG 12¼ HOLE	3 00	8 00	5
			8 HRS

With Pipe / Without Pipe / Standby

DRLG	8 00	9 30	1½
RIG SER - BOPS	9 30	9 45	¼
DRLG	9 45	12 30	2¾
SURVEY @ 4701	12 30	12 50	½
DRLG	12 50	4 00	3½

HERMAN WORKING LEASE PAINTING RIG

2 D

With Pipe / Without Pipe / Standby

DRILLING 12¼ HOLE	4 00	8 00	4
CIRC. BTM. HOLE SAMPLE	8 00	8 45	¾
DROP TOTCO	8 45	9 00	¼
TRIP OUT + DOUBLE STRAP PIPE	9 00	12 00	3

With Pipe / Without Pipe / Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller ED HUNTER-RUN	8
Derrick O. MACKENZIE	8
Motor E. DUCK	8
Floor DUANE EVANS	8
Floor B. STEVELD	8
C. GUSKEY	8

Accidents

Outside Temp. 40

Weather Conditions CLEAR

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOUWERT	8

Accidents W. JOHNS SLIPPED ON RAMP STAIRS & HURT STOMACH

Outside Temp.

Weather Conditions SNOWING

Road Conditions

Toolpusher

Approved by

Toto Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 22 19 70

NABORS DRILLING LIMITED

Rig No. 10 Page No. 3b LOCATION C-06 ETA LADYCHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 22 19 70

Rig No. 10 Report No. 36

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4556	34	4590	7½	116,000	15	9 1/2	2 1/2	50 lbs			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	9	12¼	SSTG	32 16	651773	22	45	4534	4590	56	7½			Real

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.2	9.2	9.2	9.2
VISCOSITY	53	53	52	54
GEL				

Additives: GEL - 1500 lbs; DX-68 - 2 GAL; Cypan - 100 lbs; CAUSTIC - 100 lbs

At Surveys: 4582 @ 7°

MOTOR HOURS: 1. 8½; 2. 8; 3.

Light Plant: 8

BOILER HRS.: 8

Oil Added:

PUMPS: No. 1 Pressure 750 750 750 750; Model C; S.P.M. 51 51 51 51; Liner Size 6½

No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1/9	35-8	180	180		—	—	—	1000

Casing Record: Surface; Prod.

Cement:

Wt. 9.2 F.C. pH. Solids

Stands	408.965
Singles	
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down On Kelly	18.00
TOTAL	4570

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	12⁰⁰	5¼	5
CONN RIG SER. AND SURVEY	5¼		
@ 4582 7°		6¼	½
DRLG 12¼ HOLE	6¼	8⁰⁰	1¾
			8 HRS

With Pipe Without Pipe Standby

Accidents NIL

Outside Temp. + 20°

Weather Conditions CLOUDY

Road Conditions POOR

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. LOEWEN	8
Derrick L. CHOMIAK	8
Motor R. FRAUM	8
Floor G. CLYN	8
Floor B. HOWE	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4590	33	4623	7½	116,000	15	9 1/2	2 1/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	9	12¼	SSTG	32 16	651773	30 40	45	4534	4623	89	5½			DRLG

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.2	9.2	9.3	9.2
VISCOSITY	55	58	62	58
GEL				

Additives: [illegible]

At Surveys: 4614 @ 6½

MOTOR HOURS: 1. 8; 2. 8; 3.

Light Plant: 8

BOILER HRS.: 8

Oil Added:

PUMPS: No. 1 Pressure 950 950 950 900

Model C; S.P.M. 57 57 57 57

Liner Size 6½

No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement:

Wt. 9.4 F.C. 7/32 pH. 11.2 Solids

Stands	412.081
Singles	
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down on Kelly	
TOTAL	4623

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	8⁰⁰	2⁰⁰	6
RIG SER. + BOPS SURVEY	2³⁰	2⁵⁵	½
DRLG	2³⁰	4⁰⁰	1½

With Pipe Without Pipe Standby

Accidents NIL

Outside Temp. 35

Weather Conditions Cloudy

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Ed KRAWCHUK	8
Derrick D. WHITSTAFF	8
Motor E. DYCK	8
Floor DWAYNE ENNIS	8
Floor N. BYSTERVELD	8
C. BURSKEY	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4623	40	4663	7¼	116,000	15	9 1/2	2 1/8	50 lbs			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	9	12¼	SSTG	32 16	651773	40 35	45	4534	4663	129	27½			RUN.

MUD	4 p.m.	6 p.m.	8 p.m.	12 p.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	57	59	56	58
GEL				

Additives: GEL - 1000 lbs; DX-68 - 3 GAL; [illegible]

At Surveys: 4645 @ 7°

MOTOR HOURS: 1. 8; 2. 8; 3.

Light Plant: 8

BOILER HRS.: 8

Oil Added:

PUMPS: No. 1 Pressure 850 850 900 900

Model C; S.P.M. 58 58 56 56

Liner Size 6½

No. 2 Pressure; Model; S.P.M.; Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours:

Desilter Hour:

Desander Hours:

Wt. 9.6 F.C. 3/32 pH. 10.5 Solids

Stands	4039.65
Singles	2.49
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down on Kelly	27.15
TOTAL	4663.00

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	4⁰⁰	7¹⁵	3¼
RIG SERVICE & SURVEY @ 4645 - 7°	7¹⁵	8⁰⁰	¾
DRILLING 12¼ HOLE	8⁰⁰	12⁰⁰	4
			8

With Pipe Without Pipe Standby

Accidents NIL

Outside Temp. +30

Weather Conditions SLEET

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. MARKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Total Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

D.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 21 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 30 LOCATION C.P.O.G. ETAL LABICHE F-08

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4477	37	4514	7¾	114,000	15	7 3/4	2 7/8	50,000	3'8"		

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	8	12¼	V2HJ	[illegible]	C0622	46	45	4323	4514	191	39¾			RUN.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.2	9.2	9.2	9.2
VISCOSITY	57	56	55	54
GEL				

Additives: CMC - 100#; DRISPAC - 3 CANS; CAUSTIC - 100 #; CYPAN - 100 #; [illegible]

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	950	950	950	950
Model C-250	S.P.M.	58	58	58	58
	Liner Size	6½			
No. 2	Pressure				
Model C-250	S.P.M.				
	Liner Size	6½			

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. 5.6 F.C. 2/32 pH. 9.5 Solids

Stands	399.63
Singles	
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down On Kelly	33.46
TOTAL	4515.00

WORK RECORD

NOTE: Do Not Record Payroll Information Here

REMARKS	Time Start	Time Stop	Time Interval
DRILLING 12¼ HOLE	12.00	2.00	2
CONN. & RIG SERVICE	2.00	2.15	¼
DRILLING 12¼ HOLE	2.15	8.00	5¾

With Pipe | Without Pipe | Standby

DATE MARCH 21 1970

Rig No. 10 Report No. 30

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Accidents NIL
Outside Temp. +15
Weather Conditions CLEAR
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4514	20	4534	4¼	114,000	15	7 3/4	2 7/8	50,000			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	8	12¼	V1HC	[illegible]	C0623	15	45	4323	4534	211	44			2-1
	9	12¼	SS16	[illegible]	[illegible]	—	—	4534						

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.2	9.2	9.1	¼
VISCOSITY	52	53	50	½
GEL				1

Additives: CC - 1000 lbs; DRISPAC - 1½ SACKS; CAUSTIC - 100 lbs

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	1000	900	900	½
Model C-250	S.P.M.	54	57	57	P
	Liner Size	6½ x 15			
No. 2	Pressure				
Model C-250	S.P.M.				
	Liner Size	6½ x 15			

At Surveys Degree: 4521 — 7°

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip
1¼	2½	5	180	180	—		—	—	800

Casing Record: Surface; Prod.; Cement

W.L. 2 F.C. 2/32 pH. 9.0 Solids

Stands	4021.8
Singles	
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down on Kelly	24
TOTAL	4534

REMARKS	Time Start	Time Stop	Time Interval
DRIG 12¼ HOLE	8.00	9.00	1
RIG SER CONNECTION AND SURVEY @ 4521 7°	9.00	9.30	½
DRIG 12¼ HOLE	9.45	1.00	3¼
TRIP OUT FOR BIT #8	1.00	3.15	2¼
MAKE UP BIT #9, CHANGE STABILIZER RUBBER AND TRIP IN	3.15	4.00	¾
			8 HRS

With Pipe | Without Pipe | Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. KOEWEN	8
Derrick L. CHABANEL	8
Motor R. MOORE	8
Floor B. GREEN	8
Floor B. HOLME	8
C. GURSKEY	8

Accidents
Outside Temp. +15
Weather Conditions CLOUDY
Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4534	22	4556	5¼	116,000	15	7 3/4	2 7/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	9	12¼	SS16	[illegible]	[illegible]	16	45	4534	4556	22	5¼			DRLG.
						22								

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT			9.2	9.2
VISCOSITY			52	52
GEL				

Additives: CC - 1500#; DRISPAC - 2 CANS; CAUSTIC - 100#

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure				
Model C-250	S.P.M.			57	57
	Liner Size				
No. 2	Pressure				
Model C-250	S.P.M.				
	Liner Size				

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

W.L. [illegible] F.C. [illegible] pH. [illegible] Solids

Stands	4056.11
Singles	
D. Collars	453.35
Other Ft.	28.16
C.B. Ft.	
Subs. Ft.	2.20
Ft. Down on Kelly	
TOTAL	4515.00

REMARKS	Time Start	Time Stop	Time Interval
RIG SER — BOPs	11.00	11.30	½
TRIP IN	11.30	5.00	1
BREAK CIRC CLEAN TO BTM. TOOK 5'	5.00	6.45	1½
DRLG 12¼ HOLE	6.45	12.00	5¼
			8 HRS

With Pipe | Without Pipe | Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Ed MAHAFFY	8
Derrick D. WEBSTAFF	8
Motor P. BYCK	8
Floor C. WAYNE ERBS	8
Floor W. EYSTEFJELD	8

Accidents NIL
Outside Temp. 30°
Weather Conditions CLOUDY
Road Conditions POOR

Toteo Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test Operated _____ Time _____ Results _____ Total Comp. Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 20 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 20 1970

Rig No. 10 Page No. 29 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No. 10 Report No. 29

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gal's	WATER Bbls.	CRUDE Gal. / Bbls.
4371	32	4403	5¾	114 000	15	9	2¼	50			

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
8	12¼	V2HJ	3-13	CD623	15	45	4323	4403	80	8¾			RUN.
			13/16							1¼			
			7/8										

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.2	9.2	9.2	9.2	GEL - 2000		1 8	
VISCOSITY	52	53	55	56	DV 45 3 gal		2 5	
GEL							3	
							Light Plant 8	
P No. 1 Pressure	900	900	900	900			BOILER HRS. 8	
U Model C-250 S.P.M.	55	58	59	58				
M Liner Size 6½								
P No. 2 Pressure								
S Model C-250 S.P.M.								
Liner Size 5½								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

Wt. 9.5 F.C. 2/32 pH 10.5 Solids

Stands 3924.53

Singles

D. Collars 453.35

Other Ft. 28.16

C.S. Ft.

Subs. Ft. 2.10

Ft. Down On Kelly 14.76

TOTAL 4403.00

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	12 00	4 30	4½
CONN. & RIG SERVICE	4 30	4 45	¼
DRILLING 12¼ HOLE	4 45	6 00	1¼
REPAIR AIR LINE TO #1 MOTOR CLUTCH	6 00	8 00	2
DESILTER 8 HRS.			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4403	34	4437	7¼	114 000	15	9	2¼	50 000			

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
8	12¼	V2HJ	3-13	CD623	15	45	4323	4437	114	24½			RUN
			13/16		20								
			7/8										

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.1	9.0	9.1	9.1	GEL - 18 sx	4428 ¼	1 8	
VISCOSITY	55	54	57	58	DV-45 - 2 gal		2 8	
GEL					CAUSTIC - 100 lbs		3	
P No. 1 Pressure	900	900	900	900	CAL-PAN - 200 lbs		Light Plant 8	
U Model C-250 S.P.M.	57	57	58	57			BOILER HRS. 8	
M Liner Size 6½				6½ x 15				
P No. 2 Pressure								
S Model C-250 S.P.M.								
Liner Size 5½ x 15								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
6	1½	8	102	102	—	—	—	—	1000

Casing Record: Surface / Prod.

Cement

Wt. 9.6 F.C. 3/32 pH 9.5 Solids 7

Stands 3933.17

Singles

D. Collars 453.35

Other Ft. 28.16

C.S. Ft.

Subs. Ft. 2.10

Ft. Down on Kelly 8.20

TOTAL

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	8 00	1 15	5¼
CONN SURVEY AND RIG SER	1 15		
@ 4402 ¼°		2 30	¾
DR. 5 12¼ HOLE	2 00	4 00	2
			8¼

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4437	40	4477	7½	114 000	3 12	9	2⅛				

No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
8	12¼	V2HJ	3-13	CD623	20	45	4423	4477	154	32			DRLG
			13/16		16								
			7/8										

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.3	9.3	9.2	9.3	GEL 2000 lbs	4428 ¾	1 8	
VISCOSITY	54	54	50	55	DV-45 2 gal	1° N	2 8	
GEL					CAUSTIC 100 lbs		3	
P No. 1 Pressure	900	900	900	900	CAL-PAN 200 lbs		Light Plant 8	
U Model C-250 S.P.M.	57	59	58	58			BOILER HRS. 8	
M Liner Size 6½ x 15								
P No. 2 Pressure								
S Model C-250 S.P.M.								
Liner Size 5½ x 15								

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

Wt. — F.C. — pH — Solids

Stands 3965.68

Singles 2

D. Collars 453.35

Other Ft. 28.16

C.S. Ft.

Subs. Ft. 220

Ft. Down on Kelly

TOTAL 4477

REMARKS	Time Start	Stop	Interval
DRLG	4 00	7 30	3½
RIG SER & BOP SURVEY	7 30	8 00	½
DRLG	8 00	12 00	4
			8

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

SEND W. JOHNS CHEQUE TO BOX 742 WETASKIWIN

Accidents NIL

Outside Temp. + 10

Weather Conditions CLEAR

Road Conditions GOOD

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J. KOFWEN	8
Derrick L. CHAPMAN	8
Motor F. TIDD	8
Floor G. STEVEN	8
Floor B. HOWE	8
C. CARSKEY	8

Accidents NIL

Outside Temp. + 40°

Weather Conditions CLEAR

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Ed KRAWCHUK	8
Derrick D WIRSTIUK	8
Motor G DICK	8
Floor DWAYNE ENNIS	8
Floor N RYSTEWESS	8

Accidents NIL

Outside Temp. 25

Weather Conditions CLEAR

Road Conditions POOR

Toolpusher Tony Drewe

Approved by

Toco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE MARCH 19 1970

NABORS DRILLING LIMITED

Rig No 10 Page No. 28 LOCATION C.P.O.G. ETAL IBERVILLE F-08

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4300	23	4323	5½	110,000	15	9 7/8	2 13/16	50			

BIT No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
7	12¼	L4NJ	3/10	DE421	30	45	4171	4323	152	33¼			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.2	9.2	9.2	9.2
VISCOSITY	56	57	60	62
GEL				

Additives GEL 1500# CAUS-2 GALS

At Surveys Degree

MOTOR HOURS: 1 8; 2 5; 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS	No. 1	No. 2
Pressure	980	900 900 900
Model	C	
S.P.M.	56	56 56
Liner Size	6½	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement:

Wt. 9.4 F.C. 2/32 pH 10.5 Solids

Stands 3811.57

Singles

D. Collars 453.35 / 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft. 2.20

Ft. Down on Kelly 27.72

TOTAL 4323.00

Time	Start	Stop	Interval
DRILLING 12¼ HOLE	12:00	5:30	5½
DROP SURVEY	5:30	5:45	¼
TRIP OUT	5:45	8:00	2¼
DESILTER 8 hrs			

With Pipe / Without Pipe / Standby

	Start	Stop	Interval
FINISH TRIP OUT	8:00	8:30	½
RIG SERVICE & BOP'S	8:30	8:45	¼
CHANGE STABILIZER RUBBER	8:45	9:00	¼
TRIP IN	9:00	11:00	2
BREAK CIRCULATION CIRCULATE	11:00		
CLEAN UP HOLE		11:30	½
CLEAN 45' FEET OF FILL	11:30	12:00	½
DRLG 12¼ HOLE	12:00	4:00	4
			8 HRS

With Pipe / Without Pipe / Standby

DATE MARCH 19 1970

Rig No 10 Report No. 28

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Accidents NIL

Outside Temp. +20

Weather Conditions CLEAR & WINDY

Road Conditions POOR

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LAFLEUR	8
Derrick L. CHADWICK	8
Motor R. TODD	8
Floor B. [illegible]	8
Floor R. HOLE	8
C. RUSSELL	8

PLEASE SEND CUT OFFSETS CHEQUE TO HOME ADDRESS

Accidents NIL

Outside Temp. +40°

Weather Conditions CLEAR

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller E.J. KOZUCHUK	8
Derrick D. WIDGESTEEL	8
Motor P. DYCK	8
Floor DUWAYNE ENNIS	8
Floor AL BYSTEFUEL-O	8

Accidents NIL

Outside Temp. 25

Weather Conditions CLEAR

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER 350 Bbls.	CRUDE Gal. / Bbls.
4323	16	4339	4	112,000	15	9 7/8	2 13/16	50			

BIT No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
7	12¼	L4NJ	3/17	DE428	—	—	4171	4323	152	33¼			2 2 1
8	12¼	V2NJ	3/17	CD623	15	45	4323	4339	16	4			RUN

MUD	12 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT			9.2	9.2
VISCOSITY			72	62
GEL				

Additives

At Surveys Degree 4323 7¼

MOTOR HOURS: 1 8; 2 8; 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS	No. 1	No. 2
Pressure		1050 1050
Model		F
S.P.M.		60 60
Liner Size		6½ x 15"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
R	1½	8	102	102	—		—		1000

Casing Record: Surface; Prod.

Cement:

Wt. 9.8 F.C. 2/32 pH 10.0 Solids 5%

Stands 3843.08

Singles

D. Collars 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft. 2.20

Ft. Down on Kelly

TOTAL 4339

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4339	32	4371	9½	112,000	15	9 7/8	2 13/16				

BIT No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
8	12¼	L2NJ	3/17	CD623	15	45	4323	4371	48	11½			DRLG
			3/18										
			3/19										

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.3	9.3	9.3	9.2
VISCOSITY	58	55	55	52
GEL				

Additives GEL 2000# DUO VIS 50#

At Surveys Degree 4367 7°

MOTOR HOURS: 1 8; 2 8; 3

Oil Added

Light Plant 8

BOILER HRS. 8

PUMPS	No. 1	No. 2
Pressure	900	900 900 900
Model		
S.P.M.	58	55 58 58
Liner Size	6½ 16	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

Wt. F.C. pH. Solids

Stands 3872.62

Singles

D. Collars 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft. 2.20

Ft. Down on Kelly

TOTAL 4371

Time	Start	Stop	Interval
DRLG	4:00	10:00	6
RIG SER & BOPs SURVEY	10:00	10:30	½
DRLG	10:30	12:00	1½
			6
DESILTER 6 HRS TOTAL SUMMARY			

With Pipe / Without Pipe / Standby

Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 18 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 18 1970

Rig No. 10 Page No. 27 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No 10 Report No. 27

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4192	40	4232	7¾	110	15	7	2¾	50	3810		

B I T S	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	7	12¼	L4HJ	3/16	OE421	40	45	4171	4232	61	13¾			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.1	9.1	9.1	9.1
VISCOSITY	42	42	57	60
GEL				

Additives: GEL - 4000 lbs; DYE - 3 gal.

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS	No. 1	No. 2
Pressure	900	900
Model	C	
S.P.M.	56	56
Liner Size	6½	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

Wt. 9.2 F.C. 7/32 pH. 10.5 Solids

Stands 3720.76; Singles; D. Collars 453.30; Other Ft. 28.16; C.B. Ft.; Subs. Ft. 2.20; Ft. Down On Kelly 27.53; TOTAL 4232.00

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	12⁰⁰	4⁰⁰	4
CONN. & RIG SERVICE	4⁰⁰	4¹⁵	¼
DRILLING 12¼ HOLE	4¹⁵	8⁰⁰	3¾
DESILTER 9 hrs.			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4232	35	4267	7¼	110	15	7¾	2¾	50			

B I T S	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	7	12¼	L4HJ	3/16	OE421	40 35	45	4171	4267	96	20	—	—	RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.0	9.0	9.0	9.0
VISCOSITY	50	55	60	58
GEL				

Additives: GEL - 2500 lbs; DU-69 - 3 gal; CAUSTIC - 100 lbs; Ran Dresser Trap

At Surveys Degree ¼ 34

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS	No. 1	No. 2
Pressure	900	900
Model		
S.P.M.	56	56
Liner Size	6½	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or	Cut	Feet Left on Spool	Next Slip
14	2	8	34	34	—	—	—	1000

Casing Record: Surface; Prod. 2078 — 2071

Cement

Wt. 9.6 F.C. 3/32 pH. Solids 7

Stands 3749.87; Singles; D. Collars 453.30; Other Ft. 28.16; C.B. Ft.; Subs. Ft. 2.20; Ft. Down on Kelly 1 Ck; TOTAL 4267.66

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	8²⁰	10⁵	1¾
CONN RIG SER. AND SURVEY	10⁵	10¹⁵	
@ 4244 6¾°		11¹⁰	¾
DRLG 12¼ HOLE	11¹⁰	4⁰⁰	5
			8 HRS
DESILTER 9 HRS. Total 9 hrs. Sand 1%			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
4267	33	4300	9¾	110	3 12	7¾	2¼				

B I T S	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	7	12¼	L4HJ	3/16	OE421	30	45	4171	4300	129	21¾			DRLG

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.2	9.2	9.2	9.2
VISCOSITY	63	59	59	59
GEL				

Additives: GEL 2500 lbs; DU-69 2½ Gal.

At Surveys Degree

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Oil Added

PUMPS	No. 1	No. 2
Pressure	900	900
Model		
S.P.M.	56	56
Liner Size	6½ x 15	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

Wt. 9.2 F.C. 9/32 pH. 10 Solids

Stands 3780.78; Singles; D. Collars 453.30; Other Ft. 28.16; C.B. Ft.; Subs. Ft. 2.20; Ft. Down on Kelly; TOTAL 4300

Water Truck Hours

Desilter Hours

Desander Hours

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	4⁰⁰	5⁰⁰	1
RIG SER - BOPS	5⁰⁰	5¹⁵	¼
DRLG	5¹⁵	12⁰⁰	6¾
			E
DESILTER 9 HRS. Total 9 hrs. Sand 1%			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Accidents NIL

Outside Temp. + 26

Weather Conditions CLEAR

Road Conditions Good

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J. LOELIEN	8
Derrick L. CHADWICK	8
Motor R. [illegible]	8
Floor B. GIBEN	8
Floor B. HOWE	8
Floor C. GURSKEY	8

PLEASE SEND 8 HOURS CHECK TO OLEFIN SASK. BOX 135

Accidents NIL

Outside Temp. + 40°

Weather Conditions CLEAR & WINDY

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Ed KRAWCHUK	8
Derrick O WARSTAFF	8
Motor G DYCK	8
Floor DWAYNE ENNIS	8
Floor N. MYSTERVELD	8
Floor C. Gurskey	8

Accidents NIL

Outside Temp. 15

Weather Conditions CLEAR WINDY

Road Conditions

Teco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Rock ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher

D.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 17 19 70

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 17 19 70

Rig No. 10 Page No. 26 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No. 10 Report No. 26

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4136	35	4171	6¼	104.000	15	6 2¼	2 13/16	50.000	477 Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	6	12¼	RR55R	3/16	JZ181	30	45	3524	4171	647	73¾			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.0	9.0	9.0	9.0			1 8	
VISCOSITY	67	63	63	65			2 8	
GEL							3	
No. 1 Pressure	950	950	950	950			Light Plant 8	
Make E S.P.M.	56	56	56	56			BOILER HRS. 8	
PUMPS No. 2 Liner Size	6½							
Make E S.P.M.								
250 Liner Size	5½							

WL 6.0 F.C. 2/32 pH. 10.0 Solids

Size	TRIPS	No. Liner	TON MILES	TOTAL MILES	Slip	Feet Or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

Stands 3628.71	REMARKS	Time Start	Stop	Interval
Singles 30.85	DRILLING 12¼ HOLE	12⁰⁰	1⁵	6¼
D. Collars 453.35	SURVEY	6:15	6³⁰	¼
Other Ft. 28.16	TRIP OUT	6³⁰	8⁰⁰	1½
C.B. Ft.				
Subs. Ft.				
Ft. Down on Kelly 29.93				
TOTAL 4171.00				
	DESILTER 8 hrs.			

With Pipe / Without Pipe / Standby

FINISH TRIP OUT TIGHT	8⁰⁰		
HOLE & STANDS OFF BOTTOM		12⁰⁰	4
REPAIR BEARDOUT CATHEAD	12⁰⁰	12³⁰	½
BREAK STABILIZER CHANGE	12³⁰		
RUBBERS		1⁰⁰	½
MAKE UP BIT RUN IN COLLARS	1⁰⁰	2⁰⁰	1
CUT AND SLIP 100 FT. DRLG	2⁰⁰		
LINE		3⁰⁰	1
RUN IN	3⁰⁰	4⁰⁰	1
			8 HRS

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick K. KIRKLAND	8
Motor W. JOHNS	8
Floor E. SOMERVILLE	8
Floor R. BOISVERT	8

Accidents NIL
Outside Temp. + 30
Weather Conditions CLEAR
Road Conditions GOOD

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J. LEBLANC	8
Derrick L. CHARTRAND	8
Motor R. DIXON	8
Floor B. GIRARD	8
Floor R. HOULE	8

Accidents NIL
Outside Temp. 40
Weather Conditions CLEAR & WINDY
Road Conditions GOOD

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4136	35	4171	6¼	104.000	15	6 2¼	2 13/16	50.000	477 Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	6	12¼	RR55R	3/16	JZ181	30	45	3524	4171	647	73¾			

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT						4171 16°	1 8	
VISCOSITY		47					2 8	
GEL							3	
No. 1 Pressure							Light Plant 8	
Make E S.P.M.							BOILER HRS. 8	
PUMPS No. 2 Liner Size								
Make E S.P.M.								
250 Liner Size								

WL F.C. 2/32 pH. 10 Solids 4.0 Cement

Size	TRIPS	No. Liner	TON MILES	TOTAL MILES	Slip	Feet Or	Cut	Feet Left on Spool	Next Slip
12¼	5	3	60	66	100		100		7000

Casing Record: Surface; Prod.

Stands 3659.56	REMARKS	Time Start	Stop	Interval
Singles	FINISH TRIP OUT TIGHT	8⁰⁰		
D. Collars 453.35	HOLE & STANDS OFF BOTTOM		12⁰⁰	4
Other Ft. 28.16	REPAIR BEARDOUT CATHEAD	12⁰⁰	12³⁰	½
C.B. Ft.	BREAK STABILIZER CHANGE	12³⁰		
Subs. Ft.	RUBBERS		1⁰⁰	½
Ft. Down on Kelly 29.93	MAKE UP BIT RUN IN COLLARS	1⁰⁰	2⁰⁰	1
TOTAL 4171.00	CUT AND SLIP 100 FT. DRLG	2⁰⁰		
	LINE		3⁰⁰	1
	RUN IN	3⁰⁰	4⁰⁰	1
				8 HRS

With Pipe / Without Pipe / Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller Ed VERHAEGHE	8
Derrick D WAGSTAFF	8
Motor G DYCK	8
Floor DWAYNE ERVIS	8
Floor N. BYSTERVELD	8
C. CURRY	8

Accidents NIL
Outside Temp. 20
Weather Conditions CLEAR
Road Conditions ROUGH

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4171	21	4192	5	111.000	15	6 2¼	2 13/16	50.000	Gals.	Bbls.	Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	7	12¼	HHI	3/16	DE431	30 40	45 92	4171	4192	21	2			DALG

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			9.0	9.1	GEL - 1500#		1 8	
VISCOSITY			70	75	DUO-VIS - 1½ GAL		2 8	
GEL					N.V.-COMB - 100#		3	
No. 1 Pressure			900	900	CYPAN - 50#		Light Plant 8	
Make E S.P.M.			55	55			BOILER HRS. 8	
PUMPS No. 2 Liner Size								
Make E S.P.M.								
250 Liner Size								

WL 5.6 F.C. 2/32 pH. 10.5 Solids

Size	TRIPS	No. Liner	TON MILES	TOTAL MILES	Slip	Feet Or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

Stands 3690.25	REMARKS	Time Start	Stop	Interval
Singles	TRIP IN	4⁰⁰	4¹⁵	¼
D. Collars 453.35	BREAK CIRC 3-510 OFF BTM	4¹⁵		
Other Ft. 28.16	CLEAN OUT 90 FT FILL		6⁴⁵	2½
C.B. Ft.	RIG SER	6⁴⁵	7⁰⁰	¼
Subs. Ft. 2.20	DRLG 12¼ HOLE	7⁰⁰	12⁰⁰	5
Ft. Down on Kelly 20				
TOTAL 4192	EXTRA MAN HAULING MUD W.O.C.			5 / 8

With Pipe / Without Pipe / Standby

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rock _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 16 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 25 LOCATION C.P.O.G. ETAL LABICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 16 19 70

Rig No. 10 Report No. 25

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3967	53	4020	7¼	103,000	15	7¾	2¹³/₁₆	50	2 Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
6	12¼	REED	3/16	JZ 181	40-35	45	3524	4020	496	53			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	10	10	10	10
VISCOSITY	56	54	61	66
GEL				

Additives: GEL - 700#; DM-15 - 3 SACKS

At Surveys: Degrees 3995 4½

MOTOR HOURS: 1 8; 2 8; 3

Light Plant 8

BOILER HRS. 8

Oil Added

PUMPS						
No. 1	Pressure	950	950	950	950	
Model C 250	S.P.M.	56	56	56	56	
	Liner Size	6½				
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	5½				

Size | TRIPS | No. Liner | TON MILES | TOTAL MILES | Slip | Feet or Cut | Feet Left on Spool | Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 6.2 F.C. 1/32 pH 10.0 Solids

Stands 3442.54
Singles 62.21
D. Collars 453.35
Other Ft. 28.16
C.B. Ft.
Subs. Ft.
Ft. Down on Kelly 33.74
TOTAL 4020

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	12 00	3 00	3
RIG SERVICE & SURVEY @ 3995-4½	3 00	3 45	¾
DRILLING 12¼ HOLE	3 45	8 00	4¼
DESILTER 8 HRS.			

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor C. CURSKEY	8
Floor R. BOISVERT	8

Accidents NIL
Outside Temp. +30
Weather Conditions CLEAR
Road Conditions POOR

With Pipe 8 | Without Pipe | Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4020	60	4080	7¼	103,000	15	7¾	2¹³/₁₆	50	Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
6	12¼	REED	3/16	JZ 181	35	45	3524	4080	556	60¼			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.0	9.0	9.0	9.0
VISCOSITY	58	55	57	50
GEL				

Additives: GEL - 1200#; DRISPAC - 2 GAL.; CAUSTIC - 100#; CON. CAUSTIC - 150#; RUN WATER & DUMP EVERY 1½ HRS.

At Surveys: Degrees 4057 5°

MOTOR HOURS: 1 8; 2 8; 3

Light Plant 8

BOILER HRS. 8

Oil Added

PUMPS						
No. 1	Pressure	950	950	950	950	
Model C 250	S.P.M.	56	56	56	56	
	Liner Size	6½	"	5"		
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	5½	"	5"		

Size | TRIPS | No. Liner | TON MILES | TOTAL MILES | Slip | Feet or Cut | Feet Left on Spool | Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 6.4 F.C. 1/32 pH 10.0 Solids 4%

Stands 3547.22
Singles
D. Collars 453.35
Other Ft. 28.16
C.B. Ft.
Subs. Ft.
Ft. Down on Kelly 32.00
TOTAL 4080

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	8 00	8 15	¼
RIG SERVICE & D.D.S.	8 15	8 30	¼
DRLG 12¼ HOLE	8 30	12 30	4
SURVEY @ 4057 5°	12 30	1 00	½
DRLG 12¼ HOLE	1 00	4 00	3
		8 HRS.	

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller J. LARSEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	8
Floor E. GIBEAU	8
Floor K. HOWE	8

Accidents NIL
Outside Temp. +35°
Weather Conditions CLEAR
Road Conditions POOR

With Pipe 8 | Without Pipe | Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
4080	56	4136	7¼	103,000	15	7¾	2¹³/₁₆	50	28 IN Gals.	Bbls.	Gal. / Bbls.

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
6	12¼	REED	3/16	JZ 181	35	45	3524	4136	612	67¼			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.	9.	9.	9.
VISCOSITY	62	61	65	68
GEL				

Additives: GEL - 2500; DRISPAC - 2 SACKS; M.I. GEL - 100#

At Surveys: Degrees 4117 6

MOTOR HOURS: 1 8; 2 8; 3

Light Plant 6

BOILER HRS. 6

Oil Added

PUMPS						
No. 1	Pressure	950	950	950	950	
Model	S.P.M.	56	56	56	56	
	Liner Size	6½	"	5"		
No. 2	Pressure					
Model	S.P.M.					
	Liner Size					

Size | TRIPS | No. Liner | TON MILES | TOTAL MILES | Slip | Feet or Cut | Feet Left on Spool | Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

W.L. 9 F.C. 2/32 pH 11. Solids

Stands 36.28
Singles
D. Collars 453.35
Other Ft. 28.16
C.B. Ft.
Subs. Ft.
Ft. Down on Kelly 27.41
TOTAL 4136

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	4 00	4 45	¾
RIG SERVICE & D.D.S.	4 45	5 00	¼
DRLG 12¼ HOLE	5 00	8 00	3
SURVEY @ 4117 6°	8 00	8 15	¼
DRLG 12¼ HOLE	8 15	11 15	3
		8 Hrs.	
PUMP FUEL			
DESILTER 8 HRS.			
STAND 90			

With Pipe 8 | Without Pipe | Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. LONDER	8
Derrick D. WAGSTAFF	8
Motor G. DICK	8
Floor W. UYSTENVELD	8
Floor D. ENNIS	8

Accidents NIL
Outside Temp. 30
Weather Conditions CLEAR
Road Conditions POOR

Toolpusher

Toto Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 15/70 19

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 15 19 70

Rig No. 10 Page No. 24 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No. 10 Report No. 24

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3750	80	3830	7	100,000	15	7 7/8"	2 1/4	50 lbs	3' Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	6	12 1/4	RX55R	3/16	JZ 181	50-45	45	3524	3830	306	31 3/4			RUN.

	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree		MOTOR HOURS	Oil Added
MUD						3810	3 1/4	1 8	
WEIGHT	9.1	9.1	9.1	9.1				2 8	
VISCOSITY	50	51	52	52				3	
GEL								Light Plant 8	
PUMPS No. 1 Pressure	950	950	950	950				BOILER HRS. 8	
Model 250 S.P.M.	56	56	56	56					
Liner Size	6 1/2								
No. 2 Pressure									
Model 350 S.P.M.									
Liner Size	5 1/2								

W.L. 6.6 F.C. 3/32 pH. 11.0 Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface — Prod.

Cement

Stands 3258.68 | Singles 42.62 | D. Collars 458.36 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly 28.00 | TOTAL 3830

REMARKS	Time Start	Stop	Interval
PULL SURVEY	12 00	12 15	1/4
DRILLING 12 1/4 HOLE	12 15	5 15	5
RIG SERVICE & SURVEY @ 3810 - 3 1/4°	5 15	6 00	3/4
DRILLING 12 1/4 HOLE	6 00	8 00	2
DESILTER 8 hrs			

With Pipe Without Pipe Standby

DRLG 12 1/4 HOLE	8 00	8 45	3/4
RIG SERVICE CHECK B.O.P.S.	8 45		
AND RIG SAVERS. O.K		9 00	1/4
DRLG 12 1/4 HOLE	9 00	12 00	3
COMM. AND SURVEY @ 3874 3/4°	12 00	12 45	3/4
DRLG 12 1/4 HOLE	12 45	4 00	3 1/4
			8 HRS.

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor C. GURSKEY	8
Floor R. BOISVERT	8

Accident. Nil

Outside Temp. -30

Weather Conditions

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LOELIEN	8
Derrick L. CHARTRAND	8
Motor R. MOGA	8
Floor B. GILLEN	8
Floor B. HOWE	8

Accidents Nil

Outside Temp. -40°

Weather Conditions CLOUDY

Road Conditions ROUGH

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1600 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3830	77	3907	7	100,000	15	7 7/8	2 1/4	50 lbs	Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	6	12 1/4	RX55R	3/16	JZ 181	50	45	3524	3907	383	38 1/4			RUN

	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Oil Added
MUD						3874	3°	1 8	
WEIGHT	9.0	8.9	8.9	8.9	Gel - 2000#			2 8	
VISCOSITY	50	48	52	48	DV-65 - 2 sx			3	
GEL					Caustic - 100#			Light Plant 8	
PUMPS No. 1 Pressure	950	950	950	950	Lime - 100# Mud Vis. 100 Vis			BOILER HRS. 8	
Model C S.P.M.	60	56	56	56	Desilter 6 hrs 4.9 Sumps				
Liner Size	6 1/2	X 5							
No. 2 Pressure									
Model C S.P.M.	TRIPLEX								
Liner Size	5 1/2	X 5							

W.L. 6.4 F.C. 3/32 pH. 10.0 Solids 4.8

Size	TRIPS	No. Does	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface — Prod.

Cement

Stands 3402.34 | Singles | D. Collars 453.33 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly R.T. 0.0 | TOTAL 3907

REMARKS	Time Start	Stop	Interval
DRLG 12 1/4 HOLE	8 00	8 45	3/4
RIG SERVICE CHECK B.O.P.S.	8 45		
AND RIG SAVERS. O.K		9 00	1/4
DRLG 12 1/4 HOLE	9 00	12 00	3
COMM. AND SURVEY @ 3874 3/4°	12 00	12 45	3/4
DRLG 12 1/4 HOLE	12 45	4 00	3 1/4
			8 HRS.

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T. ZEMLAK	8
Derrick D. WIGGSTAFF	8
Motor G. UTICK	8
Floor M. OESTERVELD	8
Floor D. WAYNE ENNIS	8

Accidents Nil

Outside Temp. -30°

Weather Conditions CLEAR

Road Conditions GOOD

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1600 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3907	60	3967	7	100,000	15	7 7/8	2 1/4	50 lbs	Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	6	12 1/4	RX55R	3/16	JZ 181	50	45	3524	3967	443				RUN

	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Oil Added
MUD						3934	4°	1 8	
WEIGHT	8.9	8.9	8.9	8.9	Gel 1500#			2 8	
VISCOSITY	59	56	54	61	DV 65 2 Gals			3	
GEL								Light Plant 8	
PUMPS No. 1 Pressure	450							BOILER HRS. 8	
Model C S.P.M.	56								
Liner Size	6 1/2								
No. 2 Pressure									
Model C S.P.M.	MUD								
Liner Size	5 1/2								

W.L. 6.4 F.C. 3/32 pH. Solids

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut Off	Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

Stands 3473 | Singles | D. Collars 463.33 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly 3 | TOTAL 3967

REMARKS	Time Start	Stop	Interval
DRLG 12 1/4 HOLE	6 00	6 15	1/4
CONDITION SURVEY @ 3954 K.B.	6 15	7 00	3/4
WORK TIGHT HOLE	7 00	7 00	1/4
DRLG 12 1/4 HOLE	7 00	12 00	4 3/4
			5 1/4

With Pipe Without Pipe Standby

DESILTER HRS 8

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE March 14/1[illegible] 19[illegible]

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE [illegible] 19[illegible]

Rig No. 1 Page No. 23 LOCATION [illegible]

Rig No. 1 Report No. [illegible]

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3514	13	3527	6 3/4	95	15	6 1/4	2 1/8	[illegible]	3[illegible] Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft. Reamed	Hrs.	COND.
	6	12 1/4	HYCALOG	3/16	JZ181	35 M	45	3521	3527	162	10 1/4	6		R.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.8	8.9	8.9
VISCOSITY	47	47	52	51
GEL				

Additives: GEL 25 SKS; C-PEN 121; DV 68 2 23 GAL; CAUSTIC 1/2; KWIK SEAL WATER BASE

At Surveys Degree: 3296 1 1/4

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

PUMPS						
No. 1	Pressure	[illegible]	[illegible]	700	900	[illegible]
Model C 250	S.P.M.	60	60	60	60	
	Liner Size	6 1/2				
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	6 1/2			15	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	New Slip

Casing Record: Surface; Prod.

Cement

W.L. 6 1/4 F.C. 3/32 pH. 10 Solids

Stands 31

Singles

D. Collars 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft.

Ft. Down On Kelly

TOTAL 3514.5

REMARKS

	Times Start	Stop	Interval
R C [illegible]	12	1	1
[illegible]	1	3 1/4	2 1/4
[illegible]	3		
[illegible]		4 1/2	1/2
[illegible]	4 1/2	5	1/2
[illegible]	5		
SAT OFF [illegible]			1
[illegible]	1/2		
WEATHER 8 KM SKIES 13 KNTS	8.9		

With Pipe / Without Pipe / Standby

DRILLING 12 1/4 HOLE	8[illegible]	12 30	4 1/2
RIG SERVICE + SURVEY @ 3457'	12 30	1:15	3/4
DRILLING 12 1/4 HOLE	1:15	4[illegible]	2 3/4

DESILTER 9 hrs

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller	8
Derrick L. WHEELER	8
Motor G. DYCK	8
Floor N. WESTLAKE	8
Floor DWAYNE ENNIS	8

Accidents Nil

Outside Temp. [illegible]

Weather Conditions CLEAR

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3525	59	3584	7 1/4	98,000	15	6 1/4	2 1/8	52,000	Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft. Reamed	Hrs.	COND.
	6	12 1/4	RYSSR	3/16	JZ181	45-55 M	45	3524	3584	162	18			RUN.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.9	8.9	8.9	8.8
VISCOSITY	48	50	51	59
GEL				

Additives: GEL - 1500#; CAUSTIC - 100; DV 68 2 gal.

At Surveys Degree: 3457 2 1/4

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

PUMPS						
No. 1	Pressure	950	950	950	950	
Model C 250	S.P.M.	56	56	56	56	
	Liner Size	6 1/2				
No. 2	Pressure					
Model C 250	S.P.M.					
	Liner Size	5 1/2			6 1/2	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	New Slip

Casing Record: Surface; Prod.

Cement

W.L. 6 4 F.C. 3/32 pH. 10.0 Solids

Stands 31.5.57

Singles

D. Collars 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly 34.57

TOTAL 3484.50

With Pipe	Without Pipe	Standby		
DRILLING 12 1/4 HOLE	8[illegible]	12 30	4 1/2	
RIG SERVICE + SURVEY @ 3457'	12 30	1:15	3/4	
DRILLING 12 1/4 HOLE	1:15	4[illegible]	2 3/4	6 hrs

DESILTER 9 hrs

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor W. JOHNS	8
Floor C. GUSKEY	8
Floor R. BOISVERT	8

Accidents NIL

Outside Temp. +40

Weather Conditions CLEAR

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3684	66	3750	6 3/4	99,000	15	6 1/4	2 1/8	52,000	Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft. Reamed	Hrs.	COND.
	6	12 1/4	RYSSR	3/16	JZ181	45-55 M	45	3528	3750	222	24 1/2			POH

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.0	9.9	8.9	8.9
VISCOSITY	58	50	49	52
GEL				

Additives: Gel 1500#; DV-68 - 2 Gal; CAUSTIC - 100#; [illegible] - 150#

At Surveys Degree: 3718 3; 3750 2 1/2

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

PUMPS						
No. 1	Pressure	900	900	900	900	
Model C 250	S.P.M.	56	56	56	56	
	Liner Size	6 1/2	x 15			
No. 2	Pressure	[illegible]				
Model C 250	S.P.M.					
	Liner Size	5 3	x 15			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	New Slip

Water Truck Hours

Desilter Hours [illegible] - 8.9 [illegible] 13.7 [illegible] 5.8

Desander Hours

W.L. 70 F.C. [illegible] pH 10 Solids.

Stands 58.69

Singles

D. Collars 453.35

Other Ft. 28.16

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly 10.50

TOTAL 3750

With Pipe	Without Pipe	Standby		
DRLG 12 1/4 HOLE	4 00	7 15	3 1/4	
CON, SURVEY @ AND RIG SERVICE @ 3718 3°	7 15	7 45	1/2	
DRLG 12 1/4 HOLE	7 45	11 15	3 1/2	
CHANGE BEARINGS IN KELLY	11 15	11 30	1/4	
BUSHINGS				
[illegible] E SURVEY	11 30			
@ 3750 2 1/2°		12 00	1/2	8 HRS

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	8
Floor B. GIVEN	8
Floor B. HOWE	8

Accidents [illegible] NIL

Outside Temp. +40

Weather Conditions CLEAR

Road Conditions ROUGH

Totco Ring on Bit No. 6 D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by M.E. Rust Approved by _____

DATE February 12 19 7-

NABORS DRILLING LIMITED

Rig No. 14 Page No. 22 LOCATION C-I-C-G ALTA Location E.R.

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE February 12 19 7-

Rig No. 14 Report No. 22

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3446	68	3514	7½	97000	15	9	2¾	50	36 Gals.	Bbls.	Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	5	12¼	Y-116	3½ 3½ 3½	593426	40	56	3346	3514	168	18½			R-1-1

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.0				- 1	3463 4¼	1 8	
VISCOSITY	50				1		2 9	
GEL					-		3	
No. 1 Pressure		9		950	-		Light Plants 6	
Model S.P.M.				56			BOILER HRS. 7	
Liner Size					Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip			
No. 2 Pressure								
Model S.P.M.					Casing Record: Surface			
Liner Size					Prod.			

Wt. 9.0 F.C. 2/32 pH. 10 Solids — Cement:

Stands	2482
Singles	
D. Collars	422.22
Other Ft.	26
C.B. Ft.	
Subs. Ft.	
Ft. Down On Kelly	
TOTAL	3514

REMARKS	Time Start	Stop	Interval
WIRE LINE SERVICE	11	12	1
SURVEY @ 3463 ¼ DEGREE	12	1	
TRIP	1	8	5 / 5 hrs

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. [illegible]	7
Derrick A. DEVERT	7
Motor C. [illegible]SKEY	7
Floor P. [illegible]STOFFA	7
Floor D. [illegible]CK	7

Accidents NIL
Outside Temp. 0
Weather Conditions SNOW
Road Conditions POOR

With Pipe	Without Pipe	Standby
DRILLING 12¼ HOLE		8 00 / 1 30 / 5½
SURVEY & RIG SERVICE		1 30 / 2 00 / ½
TRIP OUT		2 00 / 4 00 / 2 / 8 hrs

DESILTER 7 hrs

3446	30	3524	5½	97000	15	9	2¾	50	2556	61.14	45335			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	5	12¼	Y-116	3½ 3½ 3½	593426	40	56	3369	3524	155	24			DULL

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.9	8.9	8.9		CMC - 1000#	3520 2¾	1 8	
VISCOSITY	54	55	55		CAUSTIC - 100#		2 8	
GEL					DRISPAC - 2 CANS		3	
No. 1 Pressure	950	950	850				Light Plants 8	
Model S.P.M.	56	56	56				BOILER HRS. 8	
Liner Size	6½				Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip			
No. 2 Pressure								
Model S.P.M.					Casing Record: Surface			
Liner Size					Prod.			

F.C. 2/32 pH. 9.5 Solids — Cement:

Stands	2556
Singles	61.14
D. Collars	453.35
Other Ft.	
C.B. Ft.	
Subs. Ft.	28.16
Ft. Down on Kelly	21.00
TOTAL	3524

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	8 00	1 30	5½
SURVEY & RIG SERVICE	1 30	2 00	½
TRIP OUT	2 00	4 00	2 / 8 hrs

DESILTER 7 hrs

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor D. WAASTAFF	8
Floor W. JOHNS	8
Floor R. BOISVERT	8

Accidents NIL
Outside Temp. +30
Weather Conditions CLEAR
Road Conditions

With Pipe	Without Pipe	Standby
MAKE UP BIT # 6 RUN IN COLLARS AND CHANGE ROTARY SPROCKET. RIG SER.		4 00 / 5 00 / 1
		5 00 / 5 45 / ¾
TRIP IN BREAK CIR AND CLEAN 60 FT OF FILL		5 45 / 7 00 / 1¼
DRLG 12¼ HOLE		7 00 / 8 00 / 1
		8 00 / 12 00 / 4 / 8 hrs

3524	37	3562	4	95,000	15	9	2¾	50	2593	43.70				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	6	12¼	HTC-ESSR	3½	J32181	35	45	3524						

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT			9.1	9.0	CMC - 1000#		1 8	
VISCOSITY		49	49	52	CAUSTIC - 1 gal		2 8	
GEL					CAUSTIC - 100#		3	
No. 1 Pressure			950	950	CYPAN - 150#		Light Plants 8	
Model S.P.M.			60	60			BOILER HRS. 8	
Liner Size	6½	x 16			Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip			
No. 2 Pressure								
Model S.P.M.			GUNS		Water Truck Hours:			
Liner Size			45		Desilter Hours 8 hrs In - 16 out - 40 Cum. 129			

F.C. 2/32 pH. 9.5 Solids 3% — Desander Hours:

Stands	2643 70
Singles	
D. Collars	453.35
Other Ft.	27.16
C.B. Ft.	
Subs. Ft.	
Ft. Down on Kelly	37.20
TOTAL	3562

REMARKS	Time Start	Stop	Interval
MAKE UP BIT # 6 RUN IN COLLARS AND CHANGE ROTARY SPROCKET. RIG SER.	4 00	5 00	1
	5 00	5 45	¾
TRIP IN BREAK CIR AND CLEAN 60 FT OF FILL	5 45	7 00	1¼
DRLG 12¼ HOLE	7 00	8 00	1 / 8 hrs
	8 00	12 00	4

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	8
Floor B. GEVEN	8
Floor B. HOWE	8

Accidents NIL
Outside Temp. +25°
Weather Conditions CLEAR
Road Conditions ROUGH

Notice Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

D.P. Test-Operator _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE [illegible] 19[illegible]

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE [illegible] 19[illegible]

Rig No. [illegible] Page No. [illegible] LOCATION [illegible]

Rig No. [illegible] Report No. [illegible]

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3320	43	3363	7 1/4	[illegible]	15	[illegible]	[illegible]	[illegible]	4'1" Gals.	Bbls.	Gal. / Bbls

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
B	4	12¼	[illegible]	3/14	575994	35	50	3110	3363	253	35½			[illegible]
T														
S														

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT	9.4	9.1	[illegible]	9.7	[illegible]	
VISCOSITY	55	53	[illegible]	52	[illegible]	
GEL					[illegible]	

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	950	[illegible]	950	950
Model C-250	S.P.M.	56	[illegible]	56	56
	Liner Size	6½ x 12			
No. 2	Pressure				
Model C-250	S.P.M.				
	Liner Size	5½ x 12			

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 6.2 F.C. [illegible] pH. 10 Solids

Stands 2279.37; Singles; D. Collars 453.35; Other Ft.; C.B. Ft.; Subs. Ft. 28.16; Ft. Down On Kelly 41; TOTAL 3369

REMARKS

[illegible]

[illegible] 3368

[illegible]

[illegible]

Ramon T. Bravo

12 hrs @ $64.00

10 hrs @ 9 pm

$157

DESILTER HRS 8

Sump 137 INTAKE 99

With Pipe	Without Pipe	Standby	Time Start	Stop	Interval
[illegible]			12	1	2
[illegible]			[illegible]		
[illegible]			[illegible]		5½
[illegible]					[illegible]

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. [illegible]	8
Derrick [illegible]	8
Motor C. [illegible]	8
Floor K. [illegible]	12
Floor W. [illegible]	12

Accidents [illegible]

Outside Temp. 5°

Weather Conditions [illegible]

Road Conditions [illegible]

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3369	27	3396	3½	50,000	15	6¼	2¼	50	Gals.	Bbls.	Gal. / Bbls

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
B	4	12¼	[illegible]	3/14	[illegible]	35	50	3110	2369	259	35¾			4-2-1
T	5	12¼	[illegible]	[illegible]	[illegible]	35-50	56	3369	3396	27	3½			RUN
S														

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT				8.9		3368 4½
VISCOSITY		KCl		53		
GEL						

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	[illegible]	KCl		950
Model C-250	S.P.M.				56
	Liner Size	6½ x 12			
No. 2	Pressure				
Model C-250	S.P.M.				
	Liner Size	5½ x 12			

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 6.4 F.C. 1/32 pH. 9.5 Solids

Stands 2879.37; Singles; D. Collars 453.35; Other Ft. 28.16; C.B. Ft.; Subs. Ft. 28.16; Ft. Down on Kelly 35.12; TOTAL 3396.40

DROP SURV. @ 3368 - 4½°

HOIST FOR BIT #5

CHANGE BIT & RUN IN

BROKE CIRC @ 2870

DRILLING 12¼ HOLE

DESILTER 8 hrs

With Pipe	Without Pipe	Standby	Time Start	Stop	Interval
[illegible]			8:00	8:15	¼
[illegible]			8:15	10:15	2
[illegible]			10:15	12:30	2¼
[illegible]			[illegible]		
[illegible]			12:30	4:00	3½

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor D. WARSTAFF	8
Floor [illegible]	
Floor [illegible]	

Accidents NIL

Outside Temp. +5

Weather Conditions CLOUDY

Road Conditions POOR

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL	WATER	CRUDE
3396	50	3446	7½	[illegible]	15	6¼	2¼	50,000	Gals.	Bbls.	Gal. / Bbls

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
B	5	12¼	[illegible]	3/14	513426	40	55	3369	3446	77	11			RUN
T														
S														

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT	9.0	9.0	9.0	9.0	[illegible] 2000#	3401 4°
VISCOSITY	53	47	55	50	[illegible] 2 gal	
GEL					[illegible] 100#	
					[illegible] 100#	

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	950	950	950	950
Model C-250	S.P.M.	56	56	56	56
	Liner Size	6½ x 12			
No. 2	Pressure	[illegible]	[illegible]	[illegible]	[illegible]
Model C-250	S.P.M.	[illegible]	[illegible]	[illegible]	[illegible]
	Liner Size	5½ x 12			

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant 8; BOILER HRS. 8

[illegible] TOURS

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. 6.4 F.C. 32 pH. 9.5 Solids 2%

Stands 2957.29; Singles; D. Collars 453.35; Other Ft. 28.16; C.B. Ft.; Subs. Ft.; Ft. Down on Kelly 195; TOTAL 3446

DRAG 12¼ HOLE

CORR SURVEY @ 3401 4°30

REG SERVICE & BOPS 5°00 - ½

DRAG 12¼ HOLE 5°00 - 12°00 - 7

AL Burnstead 8 hrs

Water Trucks

10 hrs @ $60 = 600

9 hrs @ $50.00 hr = 450

Kilden 140

DESILTER - 8 HRS

INTAKE - 90 SUMP - 143 TOTAL PIT - 89

With Pipe	Without Pipe	Standby	Time Start	Stop	Interval
[illegible]			4°00	4°30	½
[illegible]			4°30	5°00	½
[illegible]			5°00	12°00	7
[illegible]			[illegible]		8 hrs

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick J. CHAPMAN	8
Motor R. MOORE	8
Floor B. STEVEN	12
Floor B. HOWE	12

Accidents NIL

Outside Temp. -10°

Weather Conditions CLEAR & CRISP

Road Conditions [illegible]

Toolpusher [illegible]

Toteo Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 11 19 70

NABORS DRILLING LIMITED

LABICHE F-08

Rig No. 10 Page No. 20 LOCATION C.P.O.G. ETAL

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 11 19 70

Rig No. 10 Report No. 20

Run 1

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3166	64	3230	7 3/4	93000	15	9 7 3/4	2 7/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	4	12 1/4	XHG	3/14	575980	40	50	3110	3230	120	3 1/4			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.0	8.9	8.9	8.9
VISCOSITY	62	55	50	50
GEL				

Additives: GEL 1600 / DV 68 2 gal. / CYPAN 50

At Survey Degree

MOTOR HOURS: 1 8 / 2 8 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
	No. 1 Pressure	1050	1050	1050	1050
	Model 8 S.P.M.	54	54	54	54
	350 Liner Size	6 1/2	x 12		
	No. 2 Pressure				
	Model S.P.M.				
	350 Liner Size	5 1/2	x 12		

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. 8 F.C. 2/32 pH. 9.5 Solids

Stands 272.20	Singles	D. Collars 453.35	Other Ft.	C.B. Ft.	Subs. Ft. 28.16	Ft. Down On Kelly 23	TOTAL 3230.00

REMARKS	Time Start	Stop	Interval
DRILLING 12 1/4 HOLE	12 00	2 00	2
CONN. RIG SERVICE B.O.Ps	2 00	2 15	1/4
DRILLING 12 1/4 HOLE	2 15	8 00	5 3/4
			8 hrs
DESILTER 8 hrs			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m. Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick A. DIEVERT	8
Motor C. GURSKEY	12
Floor P. GERWATOSKI	12
Floor D. YOURCHUK	12

Accidents NIL

Outside Temp. 0°

Weather Conditions CLOUDY

Road Conditions

Run 2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3230	49	3279	7 1/4	95000	15	9 7 3/4	2 7/8				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	4	12 1/4	XHG	3/14	575988	30-35	60	3110	3279	169	20 1/4			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.7	9.0	9.0	8.9
VISCOSITY	58	49	49	49
GEL				

Additives: GEL - 3300# / CAUSTIC - 100# / DV-69 - 2 GALS / CYPAN - 300# / [illegible]

At Survey Degree: 3248 4 1/2

MOTOR HOURS: 1 8 / 2 8 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
	No. 1 Pressure	950	950	950	950
	Model 8 S.P.M.	54	54	54	54
	350 Liner Size	6 1/2	x 12		
	No. 2 Pressure				
	Model S.P.M.				
	350 Liner Size	5 1/2	x 12		

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. 6.4 F.C. 2/32 pH. 10.0 Solids

Stands 269.50	Singles	D. Collars 453.35	Other Ft.	C.B. Ft.	Subs. Ft. 28.16	Ft. Down on Kelly 49.59	TOTAL 3279.00

REMARKS	Time Start	Stop	Interval
DRILLING 12 1/4 HOLE	8 00	10 15	2 1/4
SURVEY @ 3248' - 4 1/2° RIG SERVICE &	10 15		
CHECK RIG SAVER (O.K.)		11 00	3/4
DRILLING 12 1/4 HOLE	11 00	4 00	5
			8 hrs
[illegible]			
DESILTER 8 hrs			

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m. Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor	
Floor	

Accidents NIL

Outside Temp. +2°

Weather Conditions SNOW

Road Conditions

Run 3

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3279	47	3326	7 1/2	95000	15	9 7 3/4	2 7/8	50.00			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	4	12 1/4	XHG	3/14	575950	30	54	3110	3326	216	[illegible]	28		

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.1	9.0	8.9	9.0
VISCOSITY	60	55	46	53
GEL				

Additives: CAUSTIC - 100# / CYPAN - 150# / GEL - 2600# / DV 43 - 2 GA-

At Survey Degree: 3310 4°

MOTOR HOURS: 1 8 / 2 8 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
	No. 1 Pressure	950	950	800	800
	Model 8 S.P.M.	54	54	56	54
	350 Liner Size	6 1/2	x 12		
	No. 2 Pressure	GUNS			
	Model S.P.M.				
	350 Liner Size	5 1/2	x 12		

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. 6.8 F.C. pH. 9.5 Solids

Stands 281.90	Singles	D. Collars 453.35	Other Ft. 28.16	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly 26.05	TOTAL 3326

REMARKS	Time Start	Stop	Interval
DRLG 12 1/4 HOLE	4 30	8 30	4 1/2
SURVEY AND RIG SERVICE	8 30		
@ 3310 4 3/4°		9 00	1/2
DRLG 12 1/4 HOLE	9 00	12 00	3
			8 HRS
A.L. Burnadette			
Water Truck.			
10 hrs @ 60 60			
6 hrs @ 30 on h. 60			
Kept $120			
DESILTER - 8 HRS			

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick A. CHAPMAN	8
Motor R. MOON	12
Floor B. GIVEN	12
Floor B. HOWE	12

Accidents NIL

Outside Temp. -10°

Weather Conditions SNOW

Road Conditions ROUGH

Toolpusher Tony Towne

Approved by

Toca Ring on Bit No. 508 4 1/2 D.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher

B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by

DATE MARCH 10 19 70

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 10 19 70

Rig No. 10 Page No. 19 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No. 10 Report No. 19

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3026	78	3104	7¼		15	9 6¾					

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	M88	3/14	223324	35-40	50	2205'	3104	899	85			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives
WEIGHT	8.9	8.9	8.9	8.9	GEL 16200
VISCOSITY	38	45	45	49	DV 68 16 sacks
GEL					EXPAN 50

PUMPS							
No. 1	Pressure	950	950	950	950	Size	TRIPS
Model G	S.P.M.	54	54	54	54		
250	Liner Size	6½					
No. 2	Pressure						
Model	S.P.M.						
250	Liner Size	5½					

No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. 7.4 F.C. 2/32 pH. Solids

At Surveys Degree		MOTOR HOURS	Oil Added
3084	3	1 8	
		2 8	
		3	
		Light Plant 8	
		BOILER HRS. 8	

Stands 2573 Singles D. Collars 453.35 Other Ft. C.B. Ft. Subs. Ft. 28.16 Ft. Down On Kelly 31 TOTAL 3104 Next Slip

REMARKS	Start	Stop	Interval
DRILLING 12¼ HOLE	12 00	2 15	2¼
RIG SERVICE & B.O.P.	2 15	2 30	¼
DRILLING 12¼ HOLE	2 30	5 15	2¾
CONN. & SURVEY @ 3084 - 3°	5 15	5 45	½
	5 45	8 00	2¼
			8 hrs
DESILTER 8 hrs			
INTAKE 8.9 SUMP 14.5'			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3104	6	3110	½	92000	15	9 6¾	2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	M88	3/14	223324	40	50	2205	3110	905	86½			FAIR
	4	12¼	HH6	3/14	575980									NEW

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives
WEIGHT					100 HIVIS CMC
VISCOSITY					
GEL					

PUMPS							
No. 1	Pressure					Size	TRIPS
Model G	S.P.M.						
250	Liner Size	6¼					
No. 2	Pressure						
Model	S.P.M.						
250	Liner Size	5½					

No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

At Surveys Degree		MOTOR HOURS	Oil Added
		1 8	
		2 8	
		3	
		Light Plant 8	
		BOILER HRS. 8	

Stands 2693.00 Singles D. Collars 453.35 Other Ft. C.B. Ft. Subs. Ft. 28.16 Ft. Down on Kelly 35.49 TOTAL 3114.00 Next Slip

REMARKS	Start	Stop	Interval
DRILLING 12¼ HOLE	8 00	8 30	½
CIRC. SAMPLE	8 30	9 00	½
SHORT TRIP HOLE, CIRC & MIX HIVIS & MC	9 00	10 30	1½
TAKE FORBIT & STRAP PIPE CHANGE STABILIZER RUBBER	10 30	4 00	5 1/2
BREAK CIRC @ 2906'			
DESILTER 8 hrs			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
3110	56	3166	5½	93000	15	9 6¾	2¼				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	4	12¼	HH6	3/14	575980	40	50	3110	3166	56	5½			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives
WEIGHT	9.0	9.0	9.0	9.0	CYPAN 50
VISCOSITY		60	52	57	CAUSTIC 50
GEL					OV 68 2 sacks
					GEL 11600

PUMPS							
No. 1	Pressure	1050	1050	1050	1050	Size	TRIPS
Model G	S.P.M.	52	52	52	52		
250	Liner Size	6½					
No. 2	Pressure						
Model	S.P.M.						
250	Liner Size	5½					

No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. 6.2 F.C. 2/32 pH. 9.5 Solids

At Surveys Degree		MOTOR HOURS	Oil Added
3156	3¼	1 8	
		2 8	
		3	
		Light Plant 8	
		BOILER HRS. 8	

Stands 2665.12 Singles D. Collars 453.35 Other Ft. C.B. Ft. Subs. Ft. 28.16 Ft. Down on Kelly 21.00 TOTAL 3166.00 Next Slip

REMARKS	Start	Stop	Interval
REAM BRIDGE @ 2800' CLEAN OUT 185' OF FILL TO BTM.	4 00	6 00	2
DRILLING 12¼ HOLE	6 00	10 15	4¼
SURVEY @ 3156 - 3¼° RIG SERVICE	10 15	10 45	½
DRILLING 12¼ HOLE	10 45	12 00	1¼
			8 hrs
DESILTER 8 hrs			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick A. DIEVERT	8
Motor E. GURSKEY	12
Floor P. GERWATOSKI	12
Floor D. YOURCHUK	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor	
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	12
Floor B. GIVEN	12
Floor B. HOWE	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.C.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

Toolpusher ____

Approved by ____

DATE MARCH 9 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 18 LOCATION C.P.O.G. ETAL LABICHE F-09

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 9 1970

Rig No. 10 Report No. 18

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2821	57	2878	7¼		15	9½	2⅜	50			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	HH88	3/14	422324	45	45	2205	2878	673	63½			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.9	8.9	8.9	8.9	CEL - 320#		1 8	
VISCOSITY	45	45	45	45	DUO-VIS - 4 Sks		2 8	
GEL					CAUSTIC - 10#		3	

PUMPS																
No. 1	Pressure	800	800	800	800	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.	46	46	46	46										
8½	Liner Size	6½	x 15												
No. 2	Pressure														
Model	S.P.M.														
8½	Liner Size	5½	x 15												

Casing Record: Surface / Prod.

Cement:

W.L. 72 F.C. 2/32 pH. 9.5 Solids

Stands 2381 | Singles | D. Collars 453.33 | Other Ft. 28.14 | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly 6 | TOTAL 2878

BOILER HRS. 8

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	12⁰⁰	2⁰⁰	2
CIRC & REC SAMPLES	2⁰⁰	2³⁰	½
DRLG 12¼ HOLE	2³⁰	6³⁰	4
CIRC & SURVEY @ 2872 2°	6³⁰	7⁰⁰	½
DRLG 12¼ HOLE	7⁰⁰	8⁰⁰	1
			8 HRS

Tour — Midnight - 8 a.m. Specify actual hours worked.	Hrs.
Driller J. REDDEN	8
Derrick A. DUGAS	8
Motor C. GUIDRY	12
Floor P. GETHERIDGE	12
Floor D. YOUNGBLOOD	12

Accidents NIL

Outside Temp.

Weather Conditions

Road Conditions

With Pipe / Without Pipe / Standby

DRILLING 12¼ HOLE	8⁰⁰	11³⁰	3½
SURVEY @ 2703' 2°	11³⁰	12⁰⁰	½
DRILLING 12¼ HOLE	12⁰⁰	4⁰⁰	4
			8 HRS.

David R Jones was hired on Nabors as Driller on 9 Derricks on this our tour.

Our tour 10 hrs 64/40 = 154.00

Tour — 8 a.m. to 4 p.m. Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor	
Floor	

Accidents NIL

Outside Temp.

Weather Conditions

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2878	68	2946	7½		15	9½	2⅜	50			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	HH88F	3/14	222324	40	50	2205	2946	741	71			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.4	8.9	8.9	8.9	GEL - 2480#		1 9	
VISCOSITY	43	48	43	41	CAUSTIC - 100#		2 9	
GEL					DV-65 - 3gal		3	

PUMPS																
No. 1	Pressure	950	950	950	950	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.	52	52	52	52										
C-250	Liner Size	6½	x 15												
No. 2	Pressure														
Model	S.P.M.														
C-250	Liner Size	5½	x 15												

Casing Record: Surface / Prod.

Cement:

W.L. 6.4 F.C. 2/32 pH. Solids

Stands 2410.54 | Singles 31.58 | D. Collars 453.33 | Other Ft. 28.14 | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly 27.35 | TOTAL 2946.00

BOILER HRS. 8

Tour — 4 p.m. to Midnight Specify actual hours worked.	Hrs.
Driller J. LEBLEU	8
Derrick L. CHITMAN	8
Motor	12
Floor	12
Floor	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

With Pipe / Without Pipe / Standby

DRILLING 12¼ HOLE	4⁰⁰	5³⁰	1½
[illegible] - SURVEY @ 2934 2°	5³⁰	6¹⁵	¾
DRILLING 12¼ HOLE	6¹⁵	11¹⁵	5
SURVEY - COND. @ 3025 2°	11¹⁵	11⁴⁵	½
DRILLING 12¼ HOLE	11⁴⁵	12⁰⁰	¼
			8 HRS

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2946	80	3026	6¾								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	SEC. [illegible]	2/14	222324	40	50	2205	3026	821	71¼			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.3	9.4	9.4	9.2	[illegible]		1 X	
VISCOSITY	52	48	41	47	[illegible]		2 9	
GEL					[illegible]		3	

PUMPS																
No. 1	Pressure	[illegible]				Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
Model	S.P.M.	[illegible]													
-	Liner Size	-													
No. 2	Pressure														
Model	S.P.M.														
-	Liner Size	-													

Water Truck Hours

Desilter Hours

Desander Hours

W.L. [illegible] F.C. [illegible] pH. 13 Solids

Stands | Singles | D. Collars 453.33 | Other Ft. | C.B. Ft. | Subs. Ft. 28.14 | Ft. Down on Kelly | TOTAL

BOILER HRS. 8

With Pipe / Without Pipe / Standby

DRILLING 12¼ HOLE	8⁰⁰	12⁰⁰	4
[illegible]	12⁰⁰	1⁰⁰	1
[illegible]	1⁰⁰	2⁰⁰	1
[illegible]	2⁰⁰	3⁰⁰	1
[illegible]	3⁰⁰	4⁰⁰	1
			8 HRS

Toolpusher [signature]

Approved by [signature]

Torco Ring on Bit No. ____ D.P. Colipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DATE MARCH 8 19 70

NABORS DRILLING LIMITED

Rig No. 10 Page No. 17 LOCATION C.P.O.G. ETAL LABICHE F-08

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.
2436	77	2713	7¾		15	9 4/4	2 2/8	50

FUEL 3276 Gals. WATER Bbls. CRUDE Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	M88	3/14	222324	30	46	2205	2713	508	42½			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.8	8.9	8.9	8.8
VISCOSITY	42	42	41	38
GEL				

Additives: GEL 200# CYBAN 50#; CAUSTIC - 100#; QUEBRACHO - 2 gal; DESILTER - INTAKE - 8.9; SUMP - 14.7 DISCHARGE - 8.9

At Surveys Degree

MOTOR HOURS: 1 8½; 2 8½; 3; Light Plant 8; BOILER HRS. 8; Oil Added

Stands 2296.82; Singles 4.94; D. Collars 453.33; Other Ft. 28.16; C.B. Ft.; Subs. Ft.; Ft. Down On Kelly 34.00; TOTAL 2713

PUMPS	No. 1	No. 2
Pressure	750	750
Model	250	250
S.P.M.	54	54
Liner Size	6½ x 15"	5½ x 15"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. 8.8 F.C. pH 9.5 Solids

REMARKS

	Start	Stop	Interval
DRLG 12¼ HOLE	12⁰⁰	2⁰⁰	2
CON'D SURVEY RIG SERV	2⁰⁰	2¹⁵	¼
DRLG 12¼ HOLE	2¹⁵	5⁰⁰	5¾
			8 HRS

With Pipe / Without Pipe / Standby

DRLG 12¼ HOLE	8⁰⁰	8³⁰	½
SURVEY & RIG SER. @ 2717 1¾°	8³⁰	9⁰⁰	½
DRLG 12¼ HOLE	9⁰⁰	4⁰⁰	7
			8 HRS

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T ZEMLER	8
Derrick A DIFILIPPI	8
Motor E CURSKEY	12
Floor P GERNAISSKE	12
Floor D YOURCHUK	12

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H A SPRAGUE	8
Derrick L KIRKLAND	8
Motor	
Floor	
Floor	

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.
2713	56	2769	7½		15	9 4/4	2 2/8	50

FUEL Gals. WATER Bbls. CRUDE Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	M88	3/14	222324	45	46	2205	2769	564	50			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	40	41	40	42
GEL				

Additives: GEL - 200# CYBAN 50#; CAUSTIC - 100#; QUEBRACHO - 3 gal; DESILTER - INTAKE - 8.9; SUMP - 14.7 DISCHARGE - 8.9

At Surveys Degree: 2717 1¾°

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8; Oil Added

Stands 2222.82; Singles 3.94; D. Collars 453.33; Other Ft. 28.16; C.B. Ft.; Subs. Ft.; Ft. Down on Kelly 34.23; TOTAL 2769

PUMPS	No. 1	No. 2
Pressure	950	950
Model	250	250
S.P.M.	54	54
Liner Size	6½ x 15"	5½ x 15"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. 9.2 F.C. 3/32 pH 9.5 Solids

REMARKS

	Start	Stop	Interval
DRLG 12¼ HOLE	8⁰⁰	4⁰⁰	1
CON'T WORK TIGHT HOLE	5⁰⁰	6⁰⁰	1
DRLG 12¼ HOLE	6³⁰	7³⁰	1½
SURVEY AND REG SERVICE @ 2780 1¼°	7³⁰	8¹⁵	¾
DRLG 12¼ HOLE	8¹⁵	12⁰⁰	3¾
			8 HRS

Model Jerome water counter 68 A.M. reading 10 hour P.M. reading on low meter 62 105 43 / 1.00 = $ 172.00

With Pipe / Without Pipe / Standby

DRLG 12¼ HOLE	4⁰⁰	5⁰⁰	1
CON'T WORK TIGHT HOLE	5⁰⁰	6⁰⁰	1
DRLG 12¼ HOLE	6³⁰	7³⁰	1½
SURVEY AND REG SERVICE @ 2780 1¼°	7³⁰	8¹⁵	¾
DRLG 12¼ HOLE	8¹⁵	12⁰⁰	3¾
			8 HRS

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T LOEWEN	8
Derrick L PHILOMAIN	8
Motor N MOOC	12
Floor B GIEN	12
Floor B HOWE	12

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.
2769	52	2821	6¼		15	9 4/4	2 2/8	50

FUEL Gals. WATER Bbls. CRUDE Gal. Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	M88	3/14	222324	45	41	2205	2821	616	56¼			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.9	8.9	8.9	8.7
VISCOSITY	44	47	47	47
GEL				

Additives: GEL - 400# DRILL-5 9½; CAUSTIC - 12#; CYBAN - 135#; DESILTER - INTAKE - 8.9; DISCHARGE - 9.9 SUMP - 14.7

At Surveys Degree

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8; Oil Added

Stands 2320; Singles; D. Collars 453.33; Other Ft. 28.16; C.B. Ft.; Subs. Ft.; Ft. Down on Kelly 30; TOTAL 2821

PUMPS	No. 1	No. 2
Pressure	900	800
Model	250	250
S.P.M.	54	54
Liner Size	6½ x 15"	5½ x 15"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

W.L. 7.6 F.C. 2/32 pH 7.5 Solids

Totco Ring on Bit No. _____ D.P. Caliphered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 7 19 70

NABORS DRILLING LIMITED

Rig No. 10 Page No. 16 LOCATION C.P.D.G. ETAL LABICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 7 19 70

Rig No. 10 Report No. 16

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.	Stands
2409	73	2482	6½		15	7⅞	2⅞	50				1978 Singles

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	11188	3/14	222324	25	50	2205	2482	277	26½			RUN

D. Collars 423.33 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly 12.00 | TOTAL 2482

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	9.0	8.9	8.9	8.8	GEL - 400#		1 8	
VISCOSITY	42	43	40	38	CONTROL-50 #	2470 3½	2 8	
GEL					DE-68-4 GAL		3	
PUMPS No. 1 Pressure	800	800	800	800	NO SIZE - 2 GAL		Light Plants 8	
Model 250 S.P.M.	54	54	54	54	6" GENER DESILTER INTAKE		BOILER HRS. 8	
Liner Size	6½	x 15"			SWITCH - 14 G			
No. 2 Pressure								
Model S.P.M.								
Liner Size	5½	x 15"						

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface | Prod. | Cement

W.L. 8.0 F.C. 3/32 pH. 9.5 Solids

REMARKS	Time Start	Stop	Interval
SURVEY AND RIG SERVICE \ BOPS	12 00	12 30	½
DRLG 12¼ HOLE	12 30	5 00	2½
RUN SURVEY @ 2441 3½°	5 00	5 30	½
DRLG 12¼ HOLE	5 30	5 45	2¼
SURVEY @ 2470 3¾°	5 45	6 15	½
DRLG 12¼ HOLE	6 15	8 00	1¾
			8 HRS

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T ZEMINCH	8
Derrick A DEGUEHT	8
Motor C CURSKEY	12
Floor P GERWATOSKI	12
Floor D YOURCHUK	12

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.	Stands
2482	76	2558	7¾		15	7⅞	2¼	50				2540 90 Singles

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	11188	3/14	222324	25	46	2205	2558	353	27¾			RUN

D. Collars 453.33 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly 25.23 | TOTAL 2558

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.9	8.9	8.8	8.8	GEL - 1500#		1 9	
VISCOSITY	38	39	40	40	CONTROL - 50 #		2 8	
GEL					DE-68 - 2 GAL		3	
PUMPS No. 1 Pressure	750	750	750	750	DESILTER SUCTION - 8.9		Light Plants 8	
Model C S.P.M.	54	54	54	54	DE-NF - 8.7 SWITCH - 14		BOILER HRS. 8	
Liner Size 250	6½	x 15"						
No. 2 Pressure								
Model C S.P.M.								
Liner Size 250	5½	x 15"						

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface | Prod. | Cement

W.L. F.C. pH. Solids

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	8 00	12 45	4¾
CONN & SURVEY @ 2530 2¾°	12 45	1 30	¾
RIG SERVICE \ BOPS	1 30	4 00	2½
DRILLING 12¼ HOLE			8 HRS

With Pipe | Without Pipe | Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller H A SPRAGUE	8
Derrick L KIRKLAND	8
Motor	
Floor	
Floor	

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.	Stands
2558	78	2636	7		15	7⅞	2¼	50				3134 Singles

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	3	12¼	11188	3/14	222324	30	46	2205	2636	431	34½			RUN

D. Collars 453.33 | Other Ft. 28.16 | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly 32 | TOTAL 2636

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.9	8.9	8.9	8.9	GEL 400#		1 8	
VISCOSITY	41	43	39	37	CONTROL - 100 #		2 8	
GEL					DE-68 - 5 GAL		3	
PUMPS No. 1 Pressure	750	750	750	750	CAUSTIC - 50 #		Light Plants 8	
Model C S.P.M.	54	54	54	54			BOILER HRS. 8	
Liner Size 250	6½	x 15"						
No. 2 Pressure								
Model C S.P.M.								
Liner Size 250	5½	x 15"						

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

W.L. 9.6 F.C. 2/32 pH. 10.0 Solids

REMARKS	Time Start	Stop	Interval
RIG SER \ RIG SAVERS	4 00	4 15	¼
DRLG 12¼ HOLE	4 15	10 00	5¾
CONN + SURVEY @ 2624 3¾°	10 00	10 45	¾
DRLG 12¼ HOLE	10 45	12 00	1¼
			8 HRS

Hooked Jensen Water Heater
64 Dollars Per 10 hours
9 Dollars an hour one 10 hour
9 64
9 9
$81.00 $145.00

With Pipe | Without Pipe | Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T LOEWEN	8
Derrick L CHAPMAN	8
Motor R MASON	12
Floor R CTIEN	12
Floor R HOWE	12

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

Toco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 6 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 15 LOCATION C.P.O.G. ETAL ARBUTUS F-05

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 6 1970

Rig No. 10 Report No. 15

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2196	9	2205	1¼		15	9 6/64					

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft.Reamed	Hrs.	COND.
	2	12¼	MUNC	3/14	261577	45	60	1906	2205	499	20½			
	3	12¼	M88	3/14	222324									

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT		9.0		
VISCOSITY		37		
GEL				

Additives: C.M.C 50# GEL 1000 DV 68 2 gals CAUSTIC 50 NO-STIK 2 gal.

At Surveys Degree: 2196 1⅛

MOTOR HOURS: 1 2 3 Light Plant: BOILER HRS.

Oil Added

Pumps	No. 1	No. 2
Pressure	950	
Model	8	
S.P.M.	56	
Liner Size	6½	

Slip: Feet or Cut: Feet Left on Spool:

Casing Record: Surface / Prod.

W.L. F.C. pH. 9.5 Solids Cement

Stands	1705.5
Singles	
D. Collars	453.35
Other Ft.	
C.S. Ft.	
Subs. Ft.	27.01
Ft. Down On Kelly	19.50
TOTAL	2205
Next Slip	

REMARKS	Time Start	Stop	Interval
SURVEY & RIG SERVICE @ 2196' 1⅛°	12⁰⁰	12⁴⁵	¾
DRILLING 12¼ HOLE	12⁴⁵	2⁰⁰	1¼
CONDITION HOLE TO TRIP	2⁰⁰	2³⁰	½
TRIP OUT	2³⁰	4⁰⁰	1½
MAKE UP BIT #3 & TRIP IN	4⁰⁰	7⁰⁰	3
CLEAN OUT TO BTM. 60'	7⁰⁰	8⁰⁰	1
DESILTER 8 hrs			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	16
Floor B. SIVEN	16
Floor B. HOWE	16

Accidents
Outside Temp.
Weather Conditions
Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2205	143	2348	7		15	9	2 7/8	50 200			

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	M88	3/14	222324	40	50	2205	2348	143	7			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 a.m.
WEIGHT	9.0	9.8	8.8	8.9
VISCOSITY	37	37	43	43
GEL				

Additives: GEL - 3200# Dv-60 - 4 gal CAUSTIC - 30# NO-STIK - 2 gal. SUMP - 143 DESILTER - 8 hrs INTAKE - 90

At Surveys Degree: 2288 2¼

MOTOR HOURS: 1 8 2 8 3 Light Plant: 8 BOILER HRS. 8

Oil Added

Pumps	No. 1	No. 2
Pressure	900	900
Model	8	
S.P.M.	54	54
Liner Size	6½ x 14	

Slip: Feet or Cut: Feet Left on Spool:

Casing Record: Surface / Prod.

W.L. F.C. 32 pH. 9.5 Solids Cement

Stands	1824
Singles	
D. Collars	453.35
Other Ft.	27.01
C.S. Ft.	
Subs. Ft.	
Ft. Down on Kelly	41.00
TOTAL	2348
Next Slip	

REMARKS	Time Start	Stop	Interval
CLEAN TO BOTTOM	8⁰⁰	8¹⁵	¼
DRLG 12¼ HOLE	8¹⁵	12⁰⁰	4
CON AND SURVEY, RIG SERV @ 12⁰⁰	12⁰⁰	1⁰⁰	¾
DRLG 12¼ HOLE	1⁰⁰	4⁰⁰	3
			8 HRS

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick R. DIEVERT	8
Motor C. GURSKEY	8
Floor P. CERVATOSKI	8
Floor D. YOURCHUK	8

Accidents NIL
Outside Temp. 30°
Weather Conditions CLEAR
Road Conditions ROUGH

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2348	61	2409	7		15	9	2 7/8	50 200			

Bits	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Fig.	Hrs.	Ft.Reamed	Hrs.	COND.
	3	12¼	M88	3/14	222324	40	50	2205	2409	204	14			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	45	45	41	40
GEL				

Additives: GEL 1500# CAUSTIC - 100# DV-68 - 2 gal. CMC - 100# DESILTER - 8 HRS INTAKE - 89 SUMP - 141

At Surveys Degree: 2348 4¼ 2378 4

MOTOR HOURS: 1 8 2 8 3 Light Plant: 8 BOILER HRS. 8

Oil Added

Pumps	No. 1	No. 2
Pressure	950	850
Model	8	
S.P.M.	60	54
Liner Size	6½ x 14	

Slip: Feet or Cut: Feet Left on Spool:

Water Truck Hours: RUNS WATER ROAD WATER TRUCK
Desilter Hours:
Desander Hours:

W.L. 8 F.C. 32 pH. 9.5 Solids

Stands	1857.10
Singles 10-2	56
D. Collars	453.35
Other Ft.	28.16
C.S. Ft.	
Subs. Ft.	
Ft. Down on Kelly	8.50
TOTAL	2409
Next Slip	

REMARKS	Time Start	Stop	Interval
SURVEY @ 2348 4¼° RIG SER	4⁰⁰	4³⁰	½
DRILLING 12¼ HOLE	4³⁰	8³⁰	4
SURVEY @ 2378 4°	8³⁰	9⁰⁰	½
DRILLING 12¼ HOLE	9⁰⁰	12⁰⁰	3
			8 HRS

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor	
Floor	

Accidents NIL
Outside Temp.
Weather Conditions
Road Conditions

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 5 19 70

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 5 19 70

Rig No. 10 Page No. 14 LOCATION C.P.O.G. ETAL LABICHE F-08

Rig No. 10 Report No. 14

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1706	150	1856	5¼								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	2	12¼	M4NG	3/14	261577	30-40	60	1706	1856	150	5¼			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT		8.9	8.9	8.8
VISCOSITY		45	37	37
GEL				

Additives: GEL 1600; DV 68 - 2 gal.; CAUSTIC 50 lbs

At Surveys Degree: 1760 ¼

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS. 8

PUMPS			
No. 1	Pressure	1000	
Model C 250	S.P.M.	60	
	Liner Size	6½	
No. 2	Pressure		
Model C 250	S.P.M.		
	Liner Size	5½	

INTAKE 8.9 DESILTER 8 hrs SUMP 14.2

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands; Singles; D. Collars 453.85; Other Ft. 27.01; C.B. Ft.; Subs. Ft.; Ft. Down On Kelly; TOTAL

REMARKS	Time Start	Stop	Interval
TRIP IN	12 00	1 00	1
REAM 60' OF FILL	1 00	1 45	¾
RIG SERVICE + B.O.Ps.	1 45	2 00	¼
DRILLING 12¼ HOLE	2 00	4 45	2¾
SURVEY @ 1760' ¼°	4 45	5 30	¾
DRILLING 12¼ HOLE	5 30	8 00	2½
			8 hrs
DESILTER 8 hrs			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1856	209	2065	7¼								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	2	12¼	M4NG	3/14	261577	40-45	60	1736	2065	357	12½			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	9.0	8.9	8.8	9.0
VISCOSITY	38	35	35	38
GEL				

Additives: GEL - 1600; DV 68 - 2 gal; CAUSTIC 50; NO-STICK 2 gal

At Surveys Degree: 1917 ¾

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS 8

PUMPS			
No. 1	Pressure		
Model C 250	S.P.M.		
	Liner Size	6½	
No. 2	Pressure		
Model C 250	S.P.M.		
	Liner Size	5½	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 1552; Singles 453.85; D. Collars 453.85; Other Ft.; C.B. Ft.; Subs. Ft. 27.01; Ft. Down on Kelly 37; TOTAL 2065

REMARKS	Time Start	Stop	Interval
DRILLING 12¼ HOLE	8 00	8 30	½
RIG SERVICE + B.O.Ps.	8 30	8 45	¼
DRILLING 12¼ HOLE	8 45	11 00	2¼
SURVEY @ 1917' ¾°	11 00	11 30	½
DRILLING 12¼ HOLE	11 30	4 00	4½
			8 hrs
DESILTER 8 hrs			

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
2065	134	2196	6¾								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	2	12¼	M4NG	3/14	261577	45	60	1706	2196	490	15¼			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT		9.0	8.9	
VISCOSITY		33	37	
GEL				

Additives:

At Surveys Degree: 2073 1

MOTOR HOURS: 1 8; 2 8; 3; Light Plant 8; BOILER HRS 8

PUMPS					
No. 1	Pressure	1000	1000	1000	1000
Model C 250	S.P.M.	60	60	60	60
	Liner Size	6½			
No. 2	Pressure				
Model C 250	S.P.M.				
	Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands 1674.44; Singles; D. Collars 453.85; Other Ft.; C.B. Ft.; Subs. Ft. 28.16; Ft. Down on Kelly 41.50; TOTAL 2196.00

REMARKS	Time Start	Stop	Interval
HANG LINE SPOOLER	4 00	4 15	¼
WORK PIPE BEFORE SURVEY	4 15	4 30	¼
CHANGE KELLY SAVER SUB	4 30	4 45	¼
SURVEY @ 2073' 1°	4 45	5 15	½
DRILLING 12¼ HOLE	5 15	12 00	6¾
			8 hrs
DESILTER 8 hrs			

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	12
Floor S. GIVEN	12
Floor B. HOWE	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	8
Derrick A. DIEVERT	8
Motor C. GURSKEY	12
Floor P. GERWATOSKI	12
Floor D. YOURCHUK	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller T.D. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor	
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. ____ D.P. Calipered Pate ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE MARCH 4 19 70

NABORS DRILLING LIMITED

Rig No. 10 Page No. 13 LOCATION C POG ETAL LABICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 4 19 70

Rig No. 10 Report No. 13

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1504	1654	150	7								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1	12¼	OWC	12-12-13	DB 254			610	1654	1044	28½			

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT		9.0	9.0		GEL - 6200	1598 ¾°	1 8	
VISCOSITY					DVG8 8 gal.		2 8	
GEL					CAUSTIC 100		3	
					NO-STICK 2 gal.		Light Plant	
							BOILER HRS. 8	

PUMPS												
No. 1	Pressure 1050	Model 250	S.P.M. 44	Liner Size 6½	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Pressure	Model	S.P.M.	Liner Size								

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 1207.71	Singles	D. Collars 373.08	Other Ft. 10.86	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly 33	TOTAL 1651.00

REMARKS	Start	Stop	Interval
DRILLING 12¼ HOLE	12 00	1 00	1
RIG SERVICE & B.O.Ps.	1 00	1 15	¼
DRILLING 12¼ HOLE	1 15	4 30	3¼
CONN. & SURVEY @ 1598' - ¾°	4 30	5 15	¾
DRILLING 12¼ HOLE	5 15	8 00	2¾
			8 hrs

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1654	52	1706	1¾								

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1	12¼	OWC	12-12-13	DB 254			610	1706	1096	30½			

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT	8.8	8.8	8.9		GEL 3500		1 8	
VISCOSITY	36	36	40		DVG8 7 gal.		2 8	
GEL					CAUSTIC 150		3	
					NO-STICK 2 gal.		Light Plant 8	
					CYPAN 50 lbs		BOILER HRS 8	

PUMPS												
No. 1	Pressure	Model 250	S.P.M.	Liner Size 6½	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Pressure	Model 250	S.P.M.	Liner Size 6½								

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands 1270	Singles	D. Collars 373.08	Other Ft. 10.86	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly 47.50	TOTAL 1706.03

REMARKS	Start	Stop	Interval
RIG SERVICE & B.O.Ps.	8 00	8 15	¼
DRILLING 12¼ HOLE	8 15	10 00	1¾
CIRC. 15 MIN. DROP SURVEY	10 00	10 30	½
UNABLE TO GET OFF BTM. PUMP	10 30		
OUT 9 SINGLES		1 30	3
MIX MUD & CONDITION HOLE	1 30	3 00	1½
HOISTING OUT OF HOLE	3 00	4 00	1
			8 hrs

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1706											

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
	1	12¼	OWC	12-12-13	DB 254			610	1706	1096	30½			PULL
	2	12¼	HANCT	3/16	26372			1706						NEW

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT						1706 1½°	1 8	
VISCOSITY							2 8	
GEL							3	
							Light Plant 8	
							BOILER HRS 8	

PUMPS												
No. 1	Pressure	Model 250	S.P.M.	Liner Size 6½	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
No. 2	Pressure	Model 250	S.P.M.	Liner Size 6½								

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down on Kelly	TOTAL

REMARKS	Start	Stop	Interval
PULL PIPE & COLLARS	4 00	6 00	2
LAY DOWN 11 COLLARS, PICK UP	6 00		
SHOCK SUB, STABILIZER & 4 D.Cs.		11 00	5
RUN DCs IN HOLE	11 00	12 00	1
			8 hrs
HOOK UP DESILTER			

With Pipe	Without Pipe	Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. LOEWEN	8
Derrick A. CHAPMAN	8
Motor P. MOON	12
Floor B. GIVEN	8
Floor B. HOWE	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZENNER	13
Derrick H. DIEVERT	13
Motor E. GURSKEY	12
Floor P. GERWATSKI	12
Floor D. TOURCHUK	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	12
Derrick K. KIRKLAND	12
Motor	
Floor F. MONOPAD	12
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE MARCH 3 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 12 LOCATION C.P.O.G. ETAL CARLINE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
697	350	1047	6¾	57,000	13	7"					

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
3	12¼	DCH-5	13/13/13	DB 254	20-30	100	610	1047	437	7¼			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT	8.5	8.7	8.7	8.7	GEL - 5 SX	750 ¾°
VISCOSITY	28	35	37	33	CAUSTIC - 1 GAL	900 ½°
GEL						

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	1050	1050	1050	1050
Model 250	S.P.M.	49	49	49	49
	Liner Size	6½ x 15"			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5½ x 15			

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant — 8; BOILER HRS. — 8

Oil Added:

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. F.C. pH: Solids Cement

Stands 614 - 38 Singles 2 Collars 393.08 Other Ft. 10.86 C.B. Ft. Subs. Ft. Ft. Down On Kelly 20 TOTAL 1047

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	12⁰⁰	12³⁰	½
RIG SER. & BOPS.	12³⁰	12⁴⁵	¼
DRLG 12¼ HOLE	12⁴⁵	1¹⁵	½
SURVEY @ 750 FT	1¹⁵	1⁴⁵	½
DRLG 12¼ HOLE	1⁴⁵	4⁴⁵	3
SURVEY @ 900 FT	4⁴⁵	5¹⁵	½
DRLG 12¼ HOLE	5¹⁵	8⁰⁰	2¾
			8 HRS

With Pipe Without Pipe Standby

Accidents NIL
Outside Temp. -5
Weather Conditions BLOWING SNOW
Road Condition ROUGH

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHADMAN	8
Motor R. MOOR	12
Floor B. GIUEN	8
Floor B. HOWE	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1047	237	1284	7	72	13	7¼		50			

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
3	12¼	DCH-5	13/13/13	DB 254	20-30	100	610	1284	674	14			RUN

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT	8.8	8.8	8.8	8.7	GEL - 35	1058 ¾°
VISCOSITY	31	34	34	36	GEN-EX - 20	1253 ½°
GEL					CAUSTIC - 1 GAL	

PUMPS		8 a.m.	10 a.m.	12 p.m.	2 p.m.
No. 1	Pressure	1050	1050	1050	1050
Model	S.P.M.				
	Liner Size	6½	x 15		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size	5½	x 15		

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant — 8; BOILER HRS. — 8

Oil Added:

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

W.L. F.C. pH: Solids Cement

Stands 813 Singles 3 Collars 393.08 Other Ft. 10.86 C.B. Ft. Subs. Ft. Ft. Down on Kelly TOTAL 1284

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	8⁰⁰	9³⁰	½
CONN + SURVEY	9³⁰	9⁴⁵	¼
DRLG 12¼ HOLE	9⁴⁵	2¹⁵	5¼
CONN + SURVEY	2¹⁵	2⁴⁵	½
DRLG 12¼ HOLE	2⁴⁵	4⁰⁰	1¼
			8 HRS

With Pipe Without Pipe Standby

Accidents NIL
Outside Temp. 30+
Weather Conditions CLEAR
Road Conditions ROUGH

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. [illegible]	8
Derrick [illegible]	8
Motor [illegible]	12
Floor [illegible]	8
Floor D. YOUNG	8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
1284	220	1504	6¾		13	7⅝					

BITS No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
3	12¼	DBH-J	13/13/13	DB 254	25-40	95	610	1504	894	21			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT	9.1	8.4	9.0	9.0	GEL - 3500#	1442 ¾°
VISCOSITY	35	37	37	35	GEN-EX - 4 SKS	1503 ½°
GEL					CAUSTIC - 150 #	
					DU-68 - 1 GAL.	
					NO-STICK - 2 GALS	

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	1050			
Model 250	S.P.M.	44			
	Liner Size	6½			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5½			

MOTOR HOURS: 1 — 8; 2 — 8; 3 —; Light Plant — 8; BOILER HRS. — 8

Oil Added:

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours
Desilter Hours
Desander Hours

W.L. F.C. pH 9.0 Solids

Stands 1319.70 Singles 62.77 D. Collars 393.08 Other Ft. C.B. Ft. Subs. Ft. 10.31 Ft. Down on Kelly TOTAL 1504

REMARKS	Time Start	Stop	Interval
DRILLING	4⁰⁰	8¹⁵	4¼
WORK PIPE & RUN SURVEY	8¹⁵	9⁰⁰	¾
DRILLING	9⁰⁰	11¹⁵	2¼
SURVEY	11¹⁵	11⁴⁵	½
DRILLING	11¹⁵	12⁰⁰	¼
			8 HRS
CONNECT FLARE LINES			
PUT WINDBOARDS ON SUB			
CLEANING LEASE			

With Pipe Without Pipe Standby

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	12
Derrick L. KIRKLAND	12
Motor	
Floor J. KONOPAD	12
Floor R. SAND	12

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher Toolpusher

B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by Approved by

DATE MARCH 2 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 2 1970

Rig No. 10 Page No. 11 LOCATION C.P.O.6. ERAL LABICHE F-28

Rig No. 10 Report No. 11

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 4 | 2 4 | 3 | Light Plant 8 | BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model	S.P.M.	Liner Size / Pressure
No. 2	Model	S.P.M.	Liner Size / Pressure

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down On Kelly

TOTAL

REMARKS	Time Start	Stop	Interval
GET WATER CIRCULATING PLT	12 00		4
OPN HOLE TO 7" AND OFF THREE 6" COLLARS + UNIT ON 3" VALVES.		8 00	8 HRS

With Pipe Without Pipe Standby

REMARKS	Start	Stop	Interval
WAIT ON 3 VALVES	8 00	12 00	4
PRESSURE 2000 PSI ON HYDRIL + BOP IS HELD O.K. + 2000 PSI ON PIPE RAMS FOR 15 MIN - O.K.	12 00	1 00	1
WORK ON FLARE LINES MANIFOLD.	1 00	4 00	3
			8 HRS

With Pipe Without Pipe Standby

REMARKS	Start	Stop	Interval
WORK ON MANIFOLD	4 00	9 45	5 3/4
PRESSURE TEST MANIFOLD TO 2000 PSI. HELD O.K.	9 45	10 00	1/4
DRILL OUT CEMENT & SHOE	10 00	10 30	1/2
DRILLING	1030	1130	1
THAWING AIR LINES	1130	12 00	1/2

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller	8
Derrick T. LOEWEN	8
Motor L. CHAPMAN	12
Floor R. TITUS	8
Floor D. ELVEN	8
B. HOWE	

Accidents NIL

Outside Temp. -15°

Weather Conditions SNOW + BLOWING

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZANDER	8
Derrick A. DUCHENE	8
Motor C. GRATTON	8
Floor P. GRANDMAISON	8
Floor D. YEREMCHUK	8

Accidents NIL

Outside Temp. -20°

Weather Conditions CLEAR

Road Conditions POOR

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller M. A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor	
Floor J. KONOPAD	8
Floor R. SAND	8

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Toolpusher

Approved by

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant | BOILER HRS.

Oil Added

PUMPS			
No. 1	Model	S.P.M.	Liner Size / Pressure
No. 2	Model	S.P.M.	Liner Size / Pressure

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
610	87	697	1	50000	13	9	2-6"				

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	5	12¼	OSCJ	7/32 3-11		40		610	697	87	1			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: GEL - 500# / BI-CARB 300# / DEN-EX 15K

At Surveys Degree

MOTOR HOURS: 1 8 | 2 8 | 3 | Light Plant 8 | BOILER HRS. 8

Oil Added

PUMPS			
No. 1	Model F-250	S.P.M. 52	Liner Size / Pressure 1100
No. 2	Model F-250	S.P.M.	Liner Size / Pressure

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands 187.38

Singles 63.06

D. Collars 393.08

Other Ft.

C.B. Ft.

Subs. Ft. 10.86

Ft. Down on Kelly 113.0

TOTAL 697.68

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

DATE MARCH 1 19 70

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE MARCH 1 19 70

Rig No. 10 Page No. 10 LOCATION CPOG. ETAL LABICHE F-08

Rig No. 10 Report No. 10

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS			
No. 1	Model	Pressure	S.P.M.	Liner Size
No. 2	Model	Pressure	S.P.M.	Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

Cement

W.L. F.C. pH. Solids

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
WELD CSG BOWL, NIPPLING UP. BOPS.	12[30]	8[00]	8 HRS

DATE FEB 28 1970

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 28 1970

Rig No. 10 Page No. 9 LOCATION C.P.O.6. ETAL LABICHE F-08

Rig No. 10 Report No. 9

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
496	109	605	4	50,000	9			45			

Stands 219.54 | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly | TOTAL

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	2A	17½	REED	HOLE	OPENER	10-25	110	0						

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY	90	300		200
GEL				

Additives: GEL — 12 sks, BENTEX — 2 sks, Dump Tank, Rig Water

At Surveys Degree

MOTOR HOURS: 1 8, 2 8, 3, Light Plant 8, BOILER HRS. 8

Oil Added

PUMPS					
No. 1	Pressure				
Model P	S.P.M.				
55	Liner Size	7½			
No. 2	Pressure				
Model	S.P.M.				
	Liner Size	5½			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool

Next Slip

Casing Record: Surface, Prod.

Cement

W.L. F.C. pH. Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	Run 2	17½	Tc. 13 3/8 - 54.5# K-55		Csg. (609.1')				Cemented w/ 600					
	Ran Guide Shoe, Cement + 2% CaCl, 1 Spiralex w/ 58 Jts.													
	Inter. Run Began 7:40 PM, FEB. 27/70				Good Cement Returns									

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT	10½			
VISCOSITY	300			
GEL				

Additives: LANDED AT 605 K.B. W. E. Joints

At Surveys Degree

MOTOR HOURS: 1 8, 2 8, 3, Light Plant 8, BOILER HRS. 8

Oil Added

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool

Next Slip

Casing Record: Surface, Prod.

Cement

W.L. F.C. pH. Solids

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
610											

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 8, 2 8, 3, Light Plant 8, BOILER HRS. 8

Oil Added

PUMPS					
No. 1	Pressure				
Model C 250	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model C 250	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool

Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

REMARKS	Time Start	Time Stop	Time Interval
REAMING FROM 496 TO 507	12 30	12 45	¼
RIG SERVICE	12 45	12 30	¼
REAMING 12¼ TO 17½ HOLE	12 30		
507 TO 560		3 00	2½
TRIP OUT TO STRAP PIPE	3 00	4 00	1
CLEAN SHAKER TANK AND	4 00		
SEPERATING TANK		4 45	¾
TRIP IN	4 45	5 30	¾
REAMING 12¼ TO 17½ HOLE	5 30	6 45	1¼
CONDITION HOLE TO RUN CSG	6 45	8 00	1¼

With Pipe | Without Pipe | Standby

CIRC COND. HOLE	8 00	8 30	½
TRIP OUT TO RUN CSG	8 30	9 30	1
RIG UP TO RUN CSG	9 30	11	1½
Run 13⅜ CSG TO 605	11 00		
K.B. WELD STRAPS			
ON SHOE, FLOAT AND		11 00	5
3RD COLLAR			

With Pipe | Without Pipe | Standby

RUN 13⅜ CSG.	4 00	5 45	1¾
CIRC CSG.	5 45	6 15	½
PREPARE TO RUN CEMENT	6 15	7 00	¾
CEMENT & DISPLACE	7 00	7 45	¾
CUT OFF CONDUCTOR PIPE &	7 45		
CLEAN CELLAR		12 00	4¼
CLEAN MUD TANKS - W.O.C.			

EXTRA 1¼ Run CSG

With Pipe | Without Pipe | Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. KOEWEN	12
Derrick L. CHAPMAN	12
Motor R. MOON	12
Floor B. GEIVEN	12
Floor B. HOWE	12

Accidents NIL
Outside Temp. -20°
Weather Conditions CLEAR
Road Conditions ROUGH

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. REINDER	10
Derrick A. DUCHENE	10
Motor E. GOLESKY	12
Floor P. COLLINGTON	10
Floor D. KIRKLAND	10

Accidents NIL
Outside Temp. -20°
Weather Conditions SNOW
Road Conditions ROUGH

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	12
Derrick L. KIRKLAND	12
Motor	
Floor J. KONOPAD	12
Floor R. SAND	12

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Toolpusher

Approved by

Toteo Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE Feb 21 1970 — DATE Feb 22 1970

Rig No. 10 Page No. 8 LOCATION C-206 ETAL - LADICHE F-08

Rig No. 10 Report No. 8

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
602	8	610	4	50	9	7		45			

	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
BIT	1A	12¼	X-26	3-20	EW548	20	100	0	610	610	27½			
	2A	12¼	REED					0	60		Ream			

		12 a.m.	2 a.m.	4 a.m.	6 a.m.
MUD					
WEIGHT					
VISCOSITY		63	150		
GEL					
PUMPS	No. 1 Pressure	350			
	Model / S.P.M.				
	Liner Size	5½			
	No. 2 Pressure				
	Model / S.P.M.				
	Liner Size				

Additives: SEA - 1 ; DFN - 1 ; KCL

At Surveys Degree: 1.11 1.41

MOTOR HOURS: 1 8 ; 2 8 ; 3 ; Light Plant 8 ; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface ; Prod. ; Cement

W.L. F.C. pH. Solids

Stands 314.03 ; Singles ; Bbls. ; D. Collars 277.54 ; Other Ft. 3.95 ; C.S. Ft. 3.91 ; Subs. Ft. ; Ft. Down On Kelly 17.00 ; TOTAL 610

REMARKS	Time Start	Stop	Interval
DRILL TO 610 CIR TO TRIP	12:00	12:30	½
RIG SER AND SURVEY	12:30	12:45	¼
PUT KELLY ON WORK FLT	12:45		
HOLE AND CONDITION SAFE			
TO TRIP MACHINE IDLING			
SURFACE UNDUE TO GAS SAF.		3:00	2¼
TRIP OUT	3:00	4:00	1
MAKE UP REAMING	4:00		
SI RING WELL			
TO REAMED		6:45	2¾
REAMING TO 17½ HOLE	6:45	8:30	1¾

With Pipe — Without Pipe — Standby

	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	60	261	321	7¼	43	9	7		41			

	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
BIT	2A	17½	REED	HOLE OPENER		30	90	60	321	261		261	9¾	RUN

		6 a.m.	10 a.m.	12 p.m.	2 p.m.
MUD					
WEIGHT					10
VISCOSITY		35	65	130	145
GEL					
PUMPS	No. 1 Pressure				
	Model / S.P.M.				
	Liner Size				
	No. 2 Pressure				
	Model / S.P.M.				
	Liner Size				

Additives: [illegible] - 25 ; [illegible] - 3

At Surveys Degree

MOTOR HOURS: 1 8 ; 2 8 ; 3 ; Light Plant 8 ; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface ; Prod. ; Cement

W.L. F.C. pH. Solids

Stands ; Singles ; Bbls. ; D. Collars 277.54 ; Other Ft. 2.95 ; C.S. Ft. 3.21 ; Subs. Ft. 3.00 ; Ft. Down on Kelly ; TOTAL 321.70

REMARKS	Time Start	Stop	Interval
REAMING 12¼ TO 17½ HOLE	8:30		
RIG SER		4:00	3.5

With Pipe — Without Pipe — Standby

	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
	610			8	50	2 / 9	9					

	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.
BIT	2A	17½	REED	HOLE OPENER		30	130	321	496	175	8	175	11½	RUN
	1A	12¼	X DG	3-20	EW548									

		4 p.m.	6 p.m.	8 p.m.	10 p.m.
MUD					
WEIGHT					
VISCOSITY				150	
GEL					
PUMPS	No. 1 Pressure	350			
	Model / S.P.M.	C-25			
	Liner Size	5½			
	No. 2 Pressure				
	Model / S.P.M.				
	Liner Size				

Additives: GEL 1000 # ; CAUSTIC - 150# ; GEN-EX - 1 SK

At Surveys Degree

MOTOR HOURS: 1 8 ; 2 8 ; 3 ; Light Plant 8 ; BOILER HRS. 8

Oil Added

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours ; Driller Hours ; Desander Hours

W.L. F.C. pH. Solids

Stands 158.69 ; Singles ; Bbls. ; D. Collars 273.54 ; Other Ft. 2.45 ; C.B. Ft. 3.81 ; Subs. Ft. 3.00 ; Ft. Down on Kelly ; TOTAL 321.70

REMARKS	Time Start	Stop	Interval
REAMING 321 TO 496	4:00	12:00	8

With Pipe — Without Pipe — Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. ROEMEN	8
Derrick L. CHAMPAGNE	8
Motor A. MOODY	8
Floor B. GEDEON	8
Floor B. HOWE	8

Accidents NIL
Outside Temp. 25°
Weather Conditions CLEAR
Road Conditions ROUGH

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZENKER	8
Derrick A. DEVENT	8
Motor C. CURTIS	8
Floor P. GOUDREAU	8
Floor D. YOURCHUK	8

Accidents NIL
Outside Temp. 45°
Weather Conditions CLEAR
Road Conditions ROUGH

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H.A. SPRAGUE	8
Derrick L. KIRKLAND	8
Motor G. QUIRSEY	4
Floor J. KONOPAD	8
Floor R. SAND	8

Accidents
Outside Temp.
Weather Conditions
Road Conditions

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____ Approved by _____

DATE FEB 26 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 7 LOCATION C-226 E.A.L. - ISSICHE F-08

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 26 1970

Rig No. 10 Report No. 7

Run 1

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
0	70	6	6¾	40,000	9	9"		40			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1	12¼	X06	3-20	EW 548	5000	100	0	167	167	11			RUN

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT					GEL	135	0°	1 5	
VISCOSITY	50	50	52	51				2	
GEL								3	
								Light Plant 8	
								BOILER HRS. 8	

PUMPS		12 a.m.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	350	350	350	350
Model 250	S.P.M.				
	Liner Size	7¾ x 15			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	5½ x 15			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface

Prod.

W.L. F.C. pH. Solids Cement

Stands

Singles

D. Collars 118.34

Other Ft. 283

C.B. Ft. 3 81

Subs. Ft.

Ft. Down On Kelly 4.00

TOTAL 167

Next Slip

Run 2

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
167	193	360	5¾	47	9	7"		45			

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1A	12¼	XDG	3-20	EW 548			167	360	193	15			

MUD	8 a.m.	10 a.m.	12 a.m.	2 p.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT					GEL 2400	193	0°	1 8	
VISCOSITY	103	97	97	94		257	½°	2	
GEL						288	¼°	3	
								Light Plant	
								BOILER HRS.	

PUMPS		8 a.m.	10 a.m.	12 a.m.	2 p.m.
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface GRAND TANK 17.40'

Prod.

W.L. F.C. pH. Solids Cement

Stands

Singles

D. Collars 27.54

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly

TOTAL

Next Slip

Run 3

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.
360	242	602	6½	50,000	2 / 2	9" / 8"					

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1A	12¼	XDG	3-20	EW 548	25-30	100	0	602	602	21½			RUN

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys	Degree	MOTOR HOURS	Oil Added
WEIGHT						440	½	1 8	
VISCOSITY	98	75	60+			530	¼	2 8	
GEL								3	
								Light Plant 8	
								BOILER HRS. 8	

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	400			
Model 250	S.P.M.				
	Liner Size	7¼			
No. 2	Pressure				
Model 250	S.P.M.				
	Liner Size	7¼			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids

Stands 253.49

Singles 31.56

D. Collars 270.54

Other Ft. 3.85 / 3.85

C.B. Ft.

Subs. Ft.

Ft. Down on Kelly 5.77

TOTAL 1,052.00

Next Slip

REMARKS	Time Start	Stop	Interval
DRILL 12¼ HOLE	12 00	1 00	1
RIG SER KALK KELLY AND	1 00		
PICK UP 9" COLLAR		1 30	½
DRILLING 12¼ HOLE	1 30	4 00	2½
PICK UP 2nd 9" COLLAR & TO	4 00		
SURVEY @ 135'		4 45	¾
DRLG.	4 45	8 00	3¼
			8 HRS

With Pipe Without Pipe Standby

REMARKS	Time Start	Stop	Interval
DRLG 12¼ HOLE	8 00	9 00	1
PICK UP 7" COLLAR - SERVICE	9 00	9 30	½
DRLG 12¼ HOLE	9 30	11 15	1¾
CONN + SURVEY	11 15	11 45	½
DRLG 12¼ HOLE	11 45	12 30	¾
CONN + SURVEY + WORK ON KELLY	12 30	1 15	¾
DRLG 12¼ HOLE	1 15	3 00	1¾
CONN + SURVEY	3 00	3 30	½
DRLG 12¼ HOLE	3 30	4 00	½

With Pipe Without Pipe Standby

REMARKS	Time Start	Stop	Interval
DRILLING	4 00	4 45	¾
RIG SERVICE	4 45	5 00	¼
DRILLING	5 00	6 45	1¾
SURVEY @ 6000'	6 45	7 15	½
DRILLING	7 15	9 30	2¼
SURVEY @ 6000'	9 30	10 15	¾
DRILLING	10 15	12 00	1¾

With Pipe Without Pipe Stc dby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	12
Derrick L. CHAPMAN	8
Motor R. MOON	12
Floor B. GIVEN	12
Floor B. HOWE	12

Accidents NIL

Outside Temp. + 30°

Weather Conditions CLEAR

Road Conditions TERRIBLE

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. LOUCKS	8
Derrick A. QUINT	8
Motor C. GURSKEY	8
Floor R. GRAHAM	8
Floor	

Accidents NIL

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller A. A. SPRAGUE	8
Derrick L. KIRKLAND	12
Motor	
Floor S. CHAPMAN / S. MONOPOLI	12
Floor R. SAND	8

Accidents NIL

Outside Temp. + 30

Weather Conditions CLOUDY & SNOW

Road Conditions

Toteo Ring on Bit No. ____ D.P. Caliphered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE FEB 25 19 70

NABORS DRILLING LIMITED

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 25 19 70

Rig No. 10 Page No. 6 LOCATION

Rig No. 10 Report No. 6

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: D-1 10 lbs. / CAUSTIC 2 SKS. / 4 SKS. GEL

At Surveys Degree

MOTOR HOURS: 1 8 / 2 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface / Prod.

W.L. F.C. pH. Solids Cement

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Down On Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
RIGGING UP TO SPUD	13:30	8:00	8

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOOIT	8
Floor E. GIVEN	8
Floor B. HOWE	8

Accidents NIL

Outside Temp. +35°

Weather Conditions CLEAR

Road Conditions

With Pipe Without Pipe Standby

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls
0	67	67	1½		1	11"					

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1	12¼	XDG	3/20	EW548		50							

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: C... 10# / GEL 2300 / BENEX 3 SKS

At Surveys Degree

MOTOR HOURS: 1 8 / 2 / 3 / Light Plant 8 / BOILER HRS. 8

Oil Added

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Casing Record: Surface 8 JTS 11" 42# @ 67 FT. CMTD 8/25/70 / Prod.

W.L. F.C. pH. Solids Cement

Stands	Singles	D. Collars 24.08	Other Ft. 3.31	C.B. Ft. 2.85	Subs. Ft. 2.12	Ft. Down on Kelly 31.50	TOTAL 67

With Pipe	Without Pipe	Standby	Time Start	Stop	Interval
SURFACE CASING			5:00		
RIG UP + DRILL 12¼ HOLE				12:00	4
RIG UP + DRILL 12¼ HOLE			12:00	1:30	1½
LOST CIR @ 67 FEET			1:30		
MIX MUD TO TD				2:00	½
REPAIR CIR			2:00	2:45	¾

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZINNER	8
Derrick A. DUMONT	8
Motor C. GUNSHEY	8
Floor D. KOWATSCH	8
Floor	

Accidents NIL

Outside Temp. +40°

Weather Conditions CLEAR

Road Conditions ROUGH

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls
67	30	97	1	28	2	11"					

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.
	1	12¼	XDG	3/20	EW545	10	50	67	97	97	2½			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY			45	
GEL				

Additives: SAWDUST 70 SAX / GEL 4300 / CAUSTIC 400 / BENEX 4 SAX / MWK SEAL 20 SAX REDWOOD FIBRE / CELOPHANE 10 SAX 8 SAX

At Surveys Degree: 60 ½

MOTOR HOURS: 1 8 / 2 / 3 / Light Plant 8 / BOILER HRS.

Oil Added

PUMPS		
No. 1	Model	Pressure / S.P.M. / Liner Size
No. 2	Model	Pressure / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands	Singles	D. Collars 58.56	Other Ft.	C.B. Ft.	Subs. Ft. 9.28	Ft. Down on Kelly 29.16	TOTAL 97.00

With Pipe	Without Pipe	Standby	Time Start	Stop	Interval
MIX GEL & LOST CIRC. MATERIAL			4:00	5:45	1¾
DRILLING			5:45	6:00	¼
MIX GEL & LOST CIRC. MATERIAL			6:00	8:00	2
LAY DOWN 11" COLLAR & PICK UP			8:00		
BOTTOM 11" COLLAR				10:00	2
RIG UP TO RUN SURVEY			10:00	10:45	¾
RUN SURVEY			10:45	11:00	¼
DRILLING			11:00	11:45	¾
PULL UP + CHECK FOR MUD LOSS			11:45	12:00	¼
					8 hrs

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	12
Derrick B. ZILKOWSKI	12
Motor J. KONOPAD	12
Floor R. SAND	12
Floor	

Accidents -

Outside Temp.

Weather Conditions

Road Conditions

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____ Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____ Approved by ____

DATE FEB 24 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 5 LOCATION

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 24 1970

Rig No. 10 Report No. 5

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 | 2 | 3 | Light Plant 5 | BOILER HRS. | Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down On Kelly | TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 6 | 2 | 3 | Light Plant | BOILER HRS. | Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.; Cement

W.L. F.C. pH. Solids

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jet.	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft.Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree
WEIGHT						
VISCOSITY						
GEL						

MOTOR HOURS: 1 | 2 | 3 | Light Plant | BOILER HRS. | Oil Added

PUMPS: No. 1 Pressure / Model / S.P.M. / Liner Size; No. 2 Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands | Singles | D. Collars | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Down on Kelly | TOTAL

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____

B.O.P. Test-Operated ____ Time ____ Results ____

REMARKS	Time Start	Stop	Interval
RIGGING UP			

With Pipe Without Pipe Standby

RIG UP PREFABS ON FLOOR		3	12

With Pipe Without Pipe Standby

HOOK UP STEAM LINES	12 00		
START BOILER			
WELD ON CONDUCTOR PIPE			
RIG PREFABS ON BOILERHOUSE		1200	12

With Pipe Without Pipe Standby

Total Contractor Time ____ Hrs. Toolpusher ____

Total Company Time ____ Hrs. Approved by ____

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller J. LOEWEN	8
Derrick L. CHAPMAN	8
Motor R. MOON	8
Floor B. GEUEN	8
Floor B. HOWE	8

Accidents NIL

Outside Temp. +30°

Weather Conditions CLEAR.

Road Conditions

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller T. ZINKER	12
Derrick A. [illegible]	12
Motor C. [illegible]	12
Floor P. [illegible]	12
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	12
Derrick B. ZILKOINSKI	12
Motor	
Floor J. KONOPAD	12
Floor R. SAND	12

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Toolpusher

Approved by

DATE FEB 23 1970

NABORS DRILLING LIMITED

Rig No. 10 Page No. 4 LOCATION

WORK RECORD

NOTE: Do Not Record Payroll Information Here

DATE FEB 23 1970

Rig No. 10 Report No. 4

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	12 a.m.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant 8	
							BOILER HRS.	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down On Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
RIGGING UP	8 00	10 00	14

With Pipe Without Pipe Standby

Tour — Midnight - 8 a.m.

Specify actual hours worked.	Hrs.
Driller T. LOEVEN	14
Derrick J. CHADWICK	14
Motor R. MASON	14
Floor B. GREEN	14
Floor B. HOWE	14

Accidents NIL

Outside Temp. +35°

Weather Conditions CLEAR

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	8 a.m.	10 a.m.	12 p.m.	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Casing Record: Surface; Prod.

Cement

W.L. F.C. pH. Solids

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
RIGGING UP	8 00	9 00	1
RAISE DERRICK	9 00	10 00	1
RIGGING UP FLOOR	10 00	14 00	4

With Pipe Without Pipe Standby

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked.	Hrs.
Driller Tom ZUNNER	14
Derrick ALLAN DIEVART	14
Motor C. GURSKEY	14
Floor P. GERWATOSKI	14
Floor	

Accidents

Outside Temp.

Weather Conditions

Road Conditions

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FUEL Gals.	WATER Bbls.	CRUDE Gal. / Bbls.

BITS	No.	Size	Type	Size Jets	Serial No.	Wt.	R.P.M.	From	To	Ftg.	Hrs.	Ft. Reamed	Hrs.	COND.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Oil Added
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							Light Plant	
							BOILER HRS.	

PUMPS													
No. 1	Pressure												
Model	S.P.M.												
	Liner Size												
No. 2	Pressure												
Model	S.P.M.												
	Liner Size												

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

Water Truck Hours:

Desilter Hours

Desander Hours

W.L. F.C. pH. Solids.

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Down on Kelly / TOTAL

REMARKS	Time Start	Stop	Interval
FENCE BUNK HOUSES	8 00		
PUT FLOORS & ROOFS IN BETWEEN BUILDINGS		10 00	14

With Pipe Without Pipe Standby

Tour — 4 p.m. to Midnight

Specify actual hours worked.	Hrs.
Driller H. A. SPRAGUE	14
Derrick B. ZILKOWSKI	14
Motor	
Floor J. KONOPKO	14
Floor R. SAND	14

Accidents

Outside Temp.

Weather Conditions

Road Conditions

Toolpusher Tony Lavallee

Approved by

Totco Ring on Bit No. ____ D.P. Calipered Date ____ Results ____ From Pipe Rack ____ Total Contractor Time ____ Hrs. Toolpusher ____

B.O.P. Test-Operated ____ Time ____ Results ____ Total Company Time ____ Hrs. Approved by ____

DH 400

Schlumberger of Canada

a Division of Schlumberger Canada Limited

SUITE 780, PACIFIC 66 PLAZA · CALGARY 1, ALBERTA · PHONE 269 7331-AREA CODE 403

Canadian Pacific Oil & Gas Limited
205 - 9 Ave. S. E.
Calgary, Alberta.

Gentlemen:

Enclosed are the computed results of CORIBAND on your well:
CPOG et al LaBiche F-08
This computation consists of a computed log and tabular listing.

Several porous zones are indicated by this analysis. The amount of porosity footage can be determined for each zone from the computed tabular listing. This is done by using the "Total Porosity Feet" column of the listing and subtracting the numbers at the top and bottom of each zone of interest to get the porosity footage.

These results are based on interpretation of the enclosed log and have been computed by and measured against a model. Since this model is based upon many assumptions and since the data input is subject to error in transmission and computation, Schlumberger cannot warrant or guarantee these interpretations. Therefore, they are made, like all other Schlumberger interpretations, subject to the provisions of paragraph 7 of our current General Terms and Conditions.

We believe this information will be beneficial in the evaluation of your well. If further explanation would be helpful, please ask us.

Thank you.

F.W. McCamus

F. W. McCamus - Manager of Operations

RWH/dc

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & GENERAL DIVISION
JUN 24 1971
CALGARY 21, ALBERTA
Oil Conservation Engineer
Northwest Territories & Yukon Territory

CANADIAN PACIFIC OIL AND GAS LTD.
CPOG ETAL LA BICHE F-08
WILDCAT
N.W.T. 60-40N 124-3[illegible]W

PRESENTATION PROGRAM
VERSION C
11-01-70

CORIBAND JOB

TAPE LABEL L-2931,3KIFT-IDC,DEC,3-1-71,

THIS JOB IS IN FEET

THE INTERVAL FOR THIS JOB IS BOTTOM TO TOP

MAKE 2 LISTINGS

NO FILM MADE

FREQUENCY OF LISTING IS 1 FEET

DISCRIMINATION MADE ON LISTING IS FROM VSH 50

THE E-4 EQUATION IS USED FOR PERMEABILITY

MAXIMUM LIMIT OF SW IN EQUATION IS 50

THE CONSTANT USED IN THE E-4 EQUATION IS 500.

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5803.0	.03	100	4.0	.0	2.65	46	53.90	11.24
5804.0	.00	100	3.5	.0	2.65	42	53.86	11.24
5805.0	.00	100	1.8	.0	2.67	47	53.84	11.24
5807.0	.00	100	2.8	.0	2.70	50	53.80	11.24
5809.0	.00	100	3.0	.0	2.74	48	53.74	11.23
5810.0	.00	100	3.0	.0	2.74	49	53.71	11.23
5811.0	.01	100	4.3	.0	2.65	48	53.68	11.23
5812.0	.00	100	4.0	.0	2.65	47	53.64	11.23
5814.0	.00	100	3.4	.0	2.65	47	53.60	11.23
5815.0	.00	100	2.1	.0	2.67	48	53.56	11.23
5816.0	.00	100	2.8	.0	2.71	46	53.54	11.23
5817.0	.01	100	4.3	.0	2.75	46	53.51	11.23
5818.0	.05	100	6.0	.0	2.74	44	53.46	11.23
5821.0	.00	100	4.0	.0	2.82	0	53.35	11.22
5822.0	.00	90	3.7	.0	2.76	38	53.31	11.22
5823.0	.00	61	2.8	.0	2.71	46	53.28	11.21
5827.0	.00	73	2.7	.0	2.71	45	53.21	11.18
5828.0	.01	94	4.4	.0	2.65	40	53.18	11.17
5830.0	.00	100	2.4	.0	2.73	45	53.12	11.17
5831.0	.00	100	1.8	.0	2.69	48	53.09	11.17
5832.0	.00	100	2.9	.0	2.67	47	53.07	11.17
5833.0	.00	100	3.1	.0	2.68	45	53.05	11.17
5834.0	.00	100	3.7	.0	2.66	41	53.01	11.17
5835.0	.00	100	3.7	.0	2.67	35	52.98	11.17
5836.0	.00	100	2.0	.0	2.70	42	52.94	11.17
5837.0	.00	100	2.8	.0	2.68	41	52.92	11.17
5838.0	.00	100	2.0	.0	2.71	43	52.90	11.17
5840.0	.00	100	2.2	.0	2.66	48	52.86	11.17
5841.0	.00	100	2.6	.0	2.72	48	52.83	11.17
5843.0	.00	100	3.6	.0	2.66	43	52.79	11.17

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5854.0	.00	100	3.9	.0	2.65	50	52.50	11.16
5855.0	.00	100	2.5	.0	2.66	49	52.46	11.16
5857.0	.07	100	6.4	.0	2.69	32	52.40	11.16
5858.0	.11	100	6.9	.0	2.73	36	52.33	11.16
5872.0	.04	100	6.0	.0	2.75	47	51.87	11.09
5873.0	.52	100	9.0	.0	2.79	35	51.79	11.09
5874.0	.37	100	8.6	.0	2.78	30	51.70	11.09
5875.0	.31	100	8.2	.0	2.82	17	51.62	11.09
5876.0	.24	100	7.9	.0	2.84	15	51.54	11.09
5877.0	.11	100	6.9	.0	2.85	20	51.46	11.09
5878.0	.07	100	6.4	.0	2.83	24	51.40	11.09
5879.0	.10	100	6.8	.0	2.78	30	51.33	11.09
5880.0	.55	80	9.1	.0	2.80	29	51.26	11.08
5881.0	1.19	94	10.3	.0	2.73	14	51.17	11.06
5882.0	1.17	100	10.3	.0	2.76	0	51.06	11.06
5883.0	3.42	86	12.3	.0	2.74	12	50.96	11.06
5884.0	2.44	71	11.6	.0	2.67	30	50.84	11.04
5885.0	4.86	63	13.0	.0	2.65	30	50.72	11.00
5886.0	3.95	65	12.6	.0	2.65	27	50.60	10.96
5887.0	5.17	53	14.2	.0	2.65	27	50.48	10.92
5888.0	1.38	66	10.5	.0	2.65	27	50.34	10.86
5889.0	.14	100	7.2	.0	2.66	22	50.25	10.83
5890.0	34.02	44	17.4	.0	2.65	22	50.17	10.82
5891.0	.30	89	8.2	.0	2.65	22	50.01	10.74
5892.0	.49	84	8.9	.0	2.65	23	49.92	10.72
5893.0	.50	79	8.9	.0	2.65	25	49.80	10.69
5894.0	12.05	58	15.1	.0	2.65	0	49.71	10.67
5895.0	.34	71	8.4	.0	2.71	28	49.61	10.64
5896.0	.04	100	5.8	.0	2.74	23	49.54	10.62
5897.0	.00	57	3.8	.0	2.79	37	49.49	10.61
5898.0	.00	55	3.4	.0	2.79	38	49.46	10.60
5899.0	.01	54	4.7	.0	2.78	38	49.42	10.58
5900.0	.21	52	7.7	.0	2.72	38	49.37	10.56
5901.0	4.09	71	12.6	.0	2.73	9	49.29	10.52
5902.0	.05	55	6.1	.0	2.65	39	49.15	10.47
5903.0	17.34	55	16.1	.0	2.65	4	49.04	10.43
5904.0	.09	100	6.7	.0	2.70	13	48.90	10.38
5905.0	.00	46	2.0	.0	2.77	42	48.85	10.37
5906.0	.00	80	.5	.0	2.65	38	48.83	10.36
5907.0	.00	64	3.3	.0	2.74	36	48.82	10.35
5908.0	.00	76	3.6	.0	2.73	34	48.78	10.34
5909.0	.00	100	3.9	.0	2.74	30	48.75	10.33

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5910.0	.01	100	4.6	.0	2.76	24	48.71	10.33
5911.0	.02	100	5.3	.0	2.76	29	43.66	10.33
5912.0	.04	70	5.9	.0	2.80	39	48.61	10.33
5913.0	.20	66	7.6	.0	2.74	37	48.54	10.31
5914.0	.07	67	6.4	.0	2.70	36	48.46	10.28
5915.0	.01	85	4.2	.0	2.73	35	48.41	10.27
5916.0	.01	84	4.2	.0	2.73	37	48.37	10.26
5917.0	.03	91	5.6	.0	2.79	33	48.32	10.25
5918.0	.00	69	4.0	.0	2.74	41	48.26	10.25
5919.0	.01	100	4.8	.0	2.73	31	48.22	10.23
5920.0	.00	82	3.7	.0	2.73	36	48.17	10.23
5921.0	.01	88	4.6	.0	2.70	36	48.13	10.22
5922.0	.02	95	5.1	.0	2.68	38	48.08	10.22
5923.0	.23	98	7.8	.0	2.66	34	48.03	10.21
5924.0	1.43	73	10.6	.0	2.65	37	47.97	10.21
5925.0	.54	83	9.0	.0	2.65	35	47.85	10.16
5926.0	.00	60	3.8	.0	2.75	47	47.78	10.16
5927.0	.01	52	4.6	.0	2.73	48	47.74	10.14
5930.0	.00	46	2.9	.0	2.74	50	47.66	10.10
5934.0	.00	38	2.5	.0	2.86	47	47.58	10.05
5936.0	.00	39	3.0	.0	2.78	47	47.53	10.02
5937.0	.00	31	3.5	.0	2.80	50	47.50	10.00
5938.0	.00	39	3.0	.0	2.85	44	47.47	9.98
5939.0	.00	52	2.2	.0	2.88	38	47.44	9.96
5940.0	.00	96	2.1	.0	2.89	29	47.41	9.95
5941.0	.00	100	3.7	.0	2.85	26	47.39	9.95
5942.0	.00	73	3.3	.0	2.80	41	47.34	9.95
5943.0	.00	69	3.3	.0	2.72	47	47.31	9.94
5944.0	.00	85	2.9	.0	2.71	46	47.28	9.94
5945.0	.00	84	2.2	.0	2.75	49	47.25	9.93
5946.0	.00	87	2.4	.0	2.85	48	47.23	9.93
5947.0	.00	79	3.9	.0	2.89	49	47.20	9.92
5952.0	.01	89	4.5	.0	2.89	43	46.94	9.78
5953.0	.03	85	5.5	.0	2.92	35	46.90	9.77
5954.0	.25	71	7.9	.0	2.83	39	46.83	9.76
5955.0	.09	73	6.7	.0	2.85	46	46.76	9.73
5956.0	.00	78	3.8	.0	2.79	49	46.69	9.72
5957.0	.00	82	3.3	.0	2.80	47	46.66	9.71
5958.0	.00	76	3.2	.0	2.89	48	46.63	9.70
5959.0	.04	80	5.7	.0	2.80	49	46.59	9.69

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
5960.0	.03	88	5.6	.0	2.84	47	46.53	9.08
5961.0	.01	94	4.6	.0	2.89	47	46.48	9.68
5990.0	.27	100	8.1	.0	2.78	9	45.39	9.42
5991.0	8.22	79	14.2	.0	2.80	16	45.30	9.42
5992.0	27.89	65	17.4	.0	2.86	24	45.15	9.38
5993.0	1.20	85	10.3	.0	2.76	47	45.01	9.35
6010.0	.04	100	6.0	.0	2.68	49	44.68	9.31
6011.0	.15	100	7.3	.0	2.74	46	44.61	9.31
6012.0	.69	100	9.4	.0	2.73	41	44.43	9.31
6014.0	2.91	100	12.0	.0	2.76	29	44.33	9.31
6015.0	.98	100	10.0	.0	2.78	25	44.22	9.31
6020.0	.19	100	7.6	.0	2.71	43	44.11	9.31
6021.0	.38	100	8.5	.0	2.77	37	44.03	9.31
6025.0	.02	100	5.1	.0	2.68	35	43.92	9.31
6026.0	.00	100	2.9	.0	2.72	48	43.87	9.31
6027.0	.00	100	3.6	.0	2.74	42	43.84	9.31
6028.0	.02	100	5.0	.0	2.75	42	43.80	9.31
6029.0	.03	100	5.7	.0	2.75	44	43.75	9.31
6032.0	.07	100	6.4	.0	2.70	45	43.72	9.31
6033.0	.01	100	4.5	.0	2.70	32	43.66	9.31
6034.0	.00	100	1.3	.0	2.67	47	43.63	9.31
6035.0	.00	100	.5	.0	2.71	49	43.62	9.31
6036.0	.00	100	1.8	.0	2.70	46	43.61	9.31
6037.0	.00	100	2.0	.0	2.68	40	43.59	9.31
6038.0	.00	100	2.1	.0	2.72	38	43.57	9.31
6039.0	.00	100	2.2	.0	2.65	46	43.55	9.31
6042.0	.00	100	2.3	.0	2.80	43	43.49	9.31
6043.0	.00	100	2.1	.0	2.70	44	43.47	9.31
6045.0	.00	100	.5	.0	2.66	48	43.45	9.31
6046.0	.00	100	1.2	.0	2.68	49	43.44	9.31

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6049.0	.00	100	.8	.0	2.67	46	43.40	9.31
6053.0	.00	100	2.0	.0	2.82	50	43.34	9.31
6054.0	.00	100	3.5	.0	2.81	0	43.32	9.31
6055.0	.01	100	4.4	.0	2.77	20	43.29	9.31
6056.0	.05	100	6.0	.0	2.71	39	43.24	9.31
6057.0	.23	100	7.8	.0	2.70	35	43.17	9.31
6058.0	.04	100	5.8	.0	2.72	40	43.10	9.31
6061.0	.01	100	4.9	.0	2.74	42	43.02	9.31
6062.0	.00	100	3.8	.0	2.76	41	42.97	9.31
6063.0	.01	100	4.7	.0	2.74	43	42.94	9.31
6064.0	.00	100	3.7	.0	2.71	48	42.89	9.31
6066.0	.00	100	1.6	.0	2.68	48	42.84	9.31
6067.0	.00	100	1.7	.0	2.67	49	42.82	9.31
6070.0	.00	100	1.8	.0	2.72	42	42.78	9.31
6071.0	.00	100	2.9	.0	2.70	41	42.76	9.31
6072.0	.00	100	1.8	.0	2.77	43	42.73	9.31
6073.0	.00	100	2.1	.0	2.77	47	42.71	9.31
6074.0	.00	100	1.4	.0	2.74	49	42.69	9.31
6075.0	.00	100	.2	.0	2.70	50	42.68	9.31
6076.0	.00	100	2.1	.0	2.74	38	42.68	9.31
6077.0	.00	100	3.3	.0	2.73	42	42.65	9.31
6078.0	.00	100	2.8	.0	2.65	50	42.62	9.31
6080.0	.01	100	4.5	.0	2.65	48	42.57	9.31
6081.0	.01	100	4.3	.0	2.68	49	42.52	9.31
6082.0	.03	100	5.5	.0	2.69	47	42.47	9.31
6083.0	.20	100	7.6	.0	2.71	34	42.41	9.31
6084.0	.00	100	3.2	.0	2.69	50	42.34	9.31
6087.0	.12	100	7.0	.0	2.75	27	42.22	9.30
6088.0	.23	100	7.8	.0	2.77	3	42.15	9.30
6089.0	.74	100	9.5	.0	2.72	18	42.07	9.30
6090.0	.78	100	9.6	.0	2.74	32	41.96	9.30
6091.0	.14	100	7.2	.0	2.73	45	41.88	9.30
6092.0	.08	100	6.5	.0	2.74	46	41.81	9.30
6093.0	.26	100	8.0	.0	2.74	45	41.74	9.30
6094.0	.23	100	7.8	.0	2.76	42	41.66	9.30
6095.0	.17	100	7.4	.0	2.72	43	41.58	9.30

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6096.0	.13	100	7.1	.0	2.72	47	41.50	9.30
6098.0	.00	100	3.2	.0	2.76	47	41.40	9.29
6099.0	.03	100	5.6	.0	2.77	45	41.36	9.29
6100.0	.00	100	4.0	.0	2.73	47	41.31	9.29
6101.0	.01	100	4.5	.0	2.71	46	41.26	9.29
6102.0	.89	100	9.8	.0	2.65	33	41.20	9.29
6103.0	.17	100	7.4	.0	2.65	37	41.10	9.29
6104.0	.05	100	6.1	.0	2.67	46	41.04	9.29
6105.0	.05	100	6.1	.0	2.67	43	40.98	9.29
6106.0	.05	100	6.1	.0	2.74	44	40.92	9.29
6107.0	.02	100	5.3	.0	2.73	45	40.86	9.29
6108.0	.04	100	5.9	.0	2.76	39	40.81	9.29
6109.0	.06	100	6.3	.0	2.76	40	40.75	9.29
6110.0	.11	100	6.9	.0	2.77	41	40.68	9.29
6111.0	.41	93	8.6	.0	2.78	40	40.61	9.29
6112.0	.44	100	8.7	.0	2.78	36	40.53	9.29
6113.0	.27	100	8.0	.0	2.71	36	40.44	9.29
6114.0	.04	100	5.9	.0	2.78	41	40.37	9.29
6115.0	.15	100	7.3	.0	2.85	43	40.31	9.29
6116.0	.11	100	6.9	.0	2.86	47	40.24	9.29
6166.0	.00	100	3.1	.0	2.73	48	38.70	9.28
6167.0	.00	100	2.9	.0	2.77	45	38.67	9.28
6168.0	.00	100	2.6	.0	2.73	48	38.64	9.28
6169.0	.00	100	2.0	.0	2.74	47	38.62	9.28
6170.0	.00	100	2.2	.0	2.78	50	38.60	9.28
6172.0	.00	100	1.7	.0	2.75	50	38.56	9.28
6173.0	.00	100	1.5	.0	2.73	48	38.55	9.28
6175.0	.00	100	1.2	.0	2.68	50	38.52	9.28
6176.0	.00	100	1.1	.0	2.65	50	38.51	9.28
6177.0	.00	100	1.5	.0	2.66	47	38.50	9.28
6178.0	.00	100	2.8	.0	2.70	40	38.48	9.28
6179.0	.00	100	2.7	.0	2.72	49	38.46	9.28
6180.0	.00	100	3.0	.0	2.68	38	38.43	9.28
6181.0	.00	100	1.5	.0	2.75	40	38.40	9.28
6182.0	.00	100	1.6	.0	2.66	46	38.39	9.28
6183.0	.01	100	4.4	.0	2.65	37	38.36	9.28
6184.0	.00	100	3.9	.0	2.70	38	38.31	9.28
6185.0	.14	100	7.2	.0	2.85	33	38.27	9.28
6186.0	.05	100	6.1	.0	2.69	34	38.20	9.28
6187.0	.47	100	8.8	.0	2.65	28	38.13	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6188.0	.07	100	6.5	.0	2.67	35	38.00	9.28
6189.0	.10	100	6.8	.0	2.66	35	38.02	9.28
6190.0	.00	100	2.2	.0	2.69	50	37.97	9.28
6191.0	.00	100	1.4	.0	2.67	50	37.95	9.28
6192.0	.00	100	3.6	.0	2.70	43	37.93	9.28
6193.0	.17	100	7.4	.0	2.71	29	37.89	9.28
6199.0	.03	100	5.7	.0	2.74	41	37.81	9.28
6200.0	.05	100	6.0	.0	2.73	36	37.75	9.28
6201.0	.02	100	5.0	.0	2.72	12	37.69	9.28
6202.0	.00	100	3.1	.0	2.70	27	37.65	9.28
6203.0	.02	100	5.3	.0	2.65	41	37.61	9.28
6204.0	.02	100	5.2	.0	2.65	42	37.56	9.28
6205.0	.00	100	3.4	.0	2.71	49	37.52	9.28
6206.0	.00	100	2.5	.0	2.68	48	37.48	9.28
6209.0	.00	100	2.7	.0	2.71	40	37.42	9.28
6210.0	.01	100	4.6	.0	2.70	40	37.39	9.28
6211.0	.06	100	6.3	.0	2.65	40	37.34	9.28
6212.0	.06	100	6.5	.0	2.66	33	37.27	9.28
6213.0	.06	100	6.3	.0	2.69	33	37.20	9.28
6214.0	.16	100	7.4	.0	2.71	33	37.14	9.28
6215.0	.73	100	9.5	.0	2.72	0	37.06	9.28
6216.0	.02	100	5.1	.0	2.73	0	36.98	9.28
6217.0	1.55	100	10.8	.0	2.75	11	36.91	9.28
6218.0	1.52	100	10.7	.0	2.72	0	36.80	9.28
6219.0	.00	100	.0	.0	2.72	33	36.75	9.28
6220.0	1.02	100	10.0	.0	2.72	0	36.70	9.28
6221.0	.05	100	6.0	.0	2.66	41	36.61	9.28
6235.0	.00	100	2.0	.0	2.68	47	36.54	9.28
6236.0	.10	100	6.8	.0	2.65	28	36.51	9.28
6238.0	.01	100	4.9	.0	2.65	48	36.42	9.28
6239.0	.05	100	6.1	.0	2.75	46	36.36	9.28
6242.0	.00	100	.2	.0	2.88	44	36.31	9.28
6243.0	.00	100	1.6	.0	2.74	21	36.30	9.28
6244.0	.00	100	4.0	.0	2.70	8	36.29	9.28
6245.0	.00	100	3.3	.0	2.69	30	36.24	9.28
6246.0	.00	100	3.7	.0	2.73	40	36.21	9.28

DEPTH FEET	PERM.TS OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL X	POROSITY SEC. X	MATRIX DENSITY GM/CC	SHALE VOLUME X	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6253.0	.03	100	5.4	.0	2.65	45	35.92	9.28
6254.0	.02	100	5.1	.0	2.65	49	35.87	9.28
6255.0	.00	100	3.9	.0	2.65	46	35.81	9.28
6256.0	.05	100	6.0	.0	2.65	40	35.77	9.28
6259.0	.00	100	4.0	.0	2.65	37	35.65	9.28
6260.0	.02	100	5.1	.0	2.65	37	35.60	9.28
6261.0	.02	100	5.1	.0	2.65	45	35.55	9.28
6262.0	.02	100	5.1	.0	2.65	43	35.50	9.28
6263.0	.03	100	5.7	.0	2.65	40	35.46	9.28
6264.0	.04	100	5.7	.0	2.65	27	35.40	9.28
6265.0	.03	100	5.7	.0	2.65	34	35.35	9.28
6266.0	.02	100	5.1	.0	2.65	37	35.29	9.28
6267.0	.00	100	2.0	.0	2.65	45	35.24	9.28
6268.0	.00	100	3.8	.0	2.65	37	35.22	9.28
6269.0	.00	100	2.8	.0	2.65	40	35.18	9.28
6271.0	.00	100	3.8	.0	2.65	36	35.15	9.28
6272.0	.02	100	5.0	.0	2.65	29	35.11	9.28
6273.0	.01	100	4.5	.0	2.65	39	35.06	9.28
6274.0	.00	100	2.5	.0	2.68	48	35.02	9.28
6275.0	.00	100	2.2	.0	2.71	50	35.00	9.28
6276.0	.00	100	4.0	.0	2.65	35	34.97	9.28
6277.0	.01	100	4.2	.0	2.65	34	34.94	9.28
6278.0	.01	100	4.6	.0	2.65	41	34.89	9.28
6279.0	.01	100	4.6	.0	2.65	44	34.85	9.28
6280.0	.00	100	3.9	.0	2.65	42	34.80	9.28
6281.0	.00	100	3.9	.0	2.65	46	34.76	9.28
6282.0	.00	100	2.1	.0	2.65	48	34.72	9.28
6283.0	.00	100	2.0	.0	2.70	47	34.71	9.28
6284.0	.00	100	1.3	.0	2.71	46	34.69	9.28
6286.0	.00	100	2.0	.0	2.73	38	34.67	9.28
6287.0	.00	100	2.3	.0	2.65	42	34.64	9.28
6288.0	.00	100	3.3	.0	2.65	41	34.62	9.28
6289.0	.01	100	4.1	.0	2.65	35	34.58	9.28
6290.0	.00	100	4.0	.0	2.65	46	34.54	9.28
6292.0	.07	100	6.5	.0	2.65	37	34.46	9.28
6293.0	.01	100	4.2	.0	2.67	50	34.40	9.28
6294.0	.03	100	5.5	.0	2.65	43	34.35	9.28
6295.0	.01	100	4.6	.0	2.65	47	34.25	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6297.0	.01	100	4.8	.0	2.65	47	34.20	9.28
6298.0	.01	100	4.8	.0	2.65	49	34.16	9.28
6300.0	.04	100	5.8	.0	2.65	50	34.05	9.28
6304.0	.01	100	4.4	.0	2.65	46	33.88	9.28
6305.0	.00	100	2.4	.0	2.68	49	33.83	9.28
6306.0	.00	100	2.8	.0	2.70	48	33.77	9.28
6309.0	.01	100	4.3	.0	2.65	39	33.75	9.28
6310.0	.02	100	5.1	.0	2.65	36	33.70	9.28
6312.0	.01	100	4.3	.0	2.65	49	33.63	9.28
6313.0	.01	100	4.3	.0	2.65	47	33.59	9.28
6314.0	.01	100	4.4	.0	2.65	50	33.55	9.28
6315.0	.01	100	4.4	.0	2.65	50	33.50	9.28
6317.0	.00	100	4.0	.0	2.65	44	33.42	9.28
6318.0	.02	100	5.2	.0	2.65	47	33.38	9.28
6325.0	.00	100	3.5	.0	2.65	38	33.20	9.28
6329.0	.00	100	3.8	.0	2.65	43	33.11	9.28
6331.0	.00	100	2.4	.0	2.69	38	33.06	9.28
6332.0	.00	100	2.2	.0	2.66	47	33.04	9.28
6338.0	.00	100	1.6	.0	2.67	50	32.92	9.28
6340.0	.00	100	3.0	.0	2.68	47	32.88	9.28
6344.0	.00	100	2.5	.0	2.70	50	32.78	9.28
6360.0	.00	100	1.3	.0	2.71	47	32.63	9.28
6361.0	.00	100	.0	.0	2.76	48	32.62	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6363.0	.00	100	.3	.0	2.71	42	32.62	9.28
6364.0	.00	100	1.0	.0	2.68	43	32.62	9.28
6365.0	.00	100	1.2	.0	2.69	40	32.60	9.28
6367.0	.00	100	.0	.0	2.71	48	32.60	9.28
6368.0	.00	100	.0	.0	2.69	48	32.60	9.28
6370.0	.00	100	1.7	.0	2.65	43	32.59	9.28
6371.0	.00	100	.2	.0	2.69	48	32.58	9.28
6372.0	.00	100	.0	.0	2.77	45	32.57	9.28
6373.0	.00	100	.4	.0	2.70	38	32.57	9.28
6374.0	.00	100	.8	.0	2.65	42	32.57	9.28
6378.0	.00	100	.0	.0	2.77	29	32.56	9.28
6379.0	.00	100	.0	.0	2.71	20	32.56	9.28
6380.0	.00	100	.0	.0	2.76	25	32.56	9.28
6381.0	.00	100	.0	.0	2.73	20	32.56	9.28
6382.0	.00	100	.0	.0	2.73	10	32.56	9.28
6383.0	.00	100	.0	.0	2.77	13	32.56	9.28
6384.0	.00	100	.0	.0	2.75	8	32.56	9.28
6385.0	.00	100	.0	.0	2.77	11	32.56	9.28
6386.0	.00	100	.0	.0	2.79	13	32.56	9.28
6387.0	.00	100	.0	.0	2.75	5	32.56	9.28
6388.0	.00	100	.0	.0	2.74	0	32.56	9.28
6389.0	.00	100	.0	.0	2.73	0	32.56	9.28
6390.0	.00	100	.0	.0	2.74	3	32.56	9.28
6391.0	.00	100	.0	.0	2.76	5	32.56	9.28
6392.0	.00	100	.0	.0	2.77	8	32.56	9.28
6393.0	.00	100	.0	.0	2.76	8	32.56	9.28
6394.0	.00	100	.0	.0	2.74	0	32.56	9.28
6395.0	.00	100	.0	.0	2.76	3	32.56	9.28
6396.0	.00	100	.1	.0	2.77	11	32.56	9.28
6397.0	.00	100	.0	.0	2.75	6	32.56	9.28
6398.0	.00	100	.0	.0	2.73	10	32.56	9.28
6399.0	.00	100	.0	.0	2.75	1	32.56	9.28
6400.0	.00	100	.0	.0	2.71	1	32.56	9.28
6401.0	.00	100	.0	.0	2.71	0	32.56	9.28
6402.0	.00	100	.0	.0	2.74	1	32.56	9.28
6403.0	.00	100	.0	.0	2.75	1	32.56	9.28
6404.0	.00	100	.0	.0	2.75	1	32.56	9.28
6405.0	.00	100	.0	.0	2.76	0	32.56	9.28
6406.0	.00	100	.0	.0	2.76	1	32.56	9.28
6407.0	.00	100	.0	.0	2.79	3	32.56	9.28
6408.0	.00	100	.0	.0	2.78	8	32.56	9.28
6409.0	.00	100	.0	.0	2.76	6	32.56	9.28

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS FOR-FT	CUMULATIVE INTEGRATIONS HC-FT
6410.0	.00	100	.0	.0	2.77	6	32.56	9.28
6411.0	.00	100	.0	.0	2.75	6	32.56	9.28
6412.0	.00	100	.0	.0	2.74	6	32.56	9.28
6413.0	.00	100	.3	.0	2.77	8	32.56	9.28
6414.0	.00	100	.0	.0	2.75	6	32.56	9.28
6415.0	.00	100	.4	.0	2.74	9	32.56	9.28
6416.0	.00	100	.5	.0	2.72	8	32.55	9.28
6417.0	.00	100	1.6	.0	2.71	8	32.54	9.28
6418.0	.12	100	7.1	.0	2.63	9	32.51	9.28
6419.0	1.14	100	10.2	2.7	2.63	15	32.43	9.28
6420.0	1.32	95	10.5	2.3	2.62	16	32.33	9.28
6421.0	1.54	91	10.7	2.2	2.62	11	32.22	9.27
6422.0	1.03	92	10.1	4.2	2.63	12	32.12	9.26
6423.0	1.14	92	10.2	1.5	2.64	11	32.02	9.25
6424.0	1.56	95	10.8	1.9	2.61	12	31.91	9.25
6425.0	5.52	84	13.5	.0	2.62	11	31.80	9.24
6426.0	123.84	53	22.3	1.5	2.62	10	31.64	9.20
6427.0	244.14	52	25.0	3.4	2.39	0	31.42	9.09
6428.0	244.14	54	25.0	3.7	2.33	0	31.17	8.98
6429.0	244.14	51	25.0	4.6	2.40	0	30.92	8.86
6430.0	286.12	46	25.0	12.1	2.52	0	30.67	8.74
6431.0	100.71	48	21.3	16.5	2.71	0	30.42	8.60
6432.0	.21	100	7.7	2.2	2.78	0	30.23	8.52
6433.0	.00	100	1.5	.3	2.74	12	30.18	8.52
6434.0	.00	100	2.6	.0	2.70	9	30.17	8.52
6435.0	.00	100	4.0	.0	2.69	9	30.14	8.52
6436.0	.00	100	3.9	.0	2.70	11	30.10	8.52
6437.0	.01	100	4.6	.0	2.71	11	30.06	8.52
6438.0	.61	88	9.2	.0	2.65	9	30.00	8.52
6439.0	1.65	66	10.9	.0	2.60	11	29.90	8.50
6440.0	.37	91	8.5	4.1	2.58	6	29.79	8.46
6441.0	.07	100	6.4	.0	2.63	9	29.71	8.46
6442.0	.11	100	7.0	.0	2.65	6	29.65	8.46
6443.0	.22	100	7.8	.0	2.64	6	29.58	8.46
6444.0	.06	100	6.3	.8	2.67	8	29.50	8.46
6445.0	.08	100	6.5	.0	2.66	8	29.44	8.46
6446.0	.13	100	7.1	.2	2.65	9	29.38	8.46
6447.0	1.28	100	10.4	.0	2.63	6	29.30	8.46
6448.0	7.62	77	14.0	.0	2.65	6	29.18	8.46
6449.0	99.54	50	21.5	10.2	2.70	0	29.03	8.41
6450.0	280.87	43	24.5	14.8	2.72	0	28.80	8.29
6451.0	88.50	51	21.1	15.6	2.70	0	28.56	8.16
6452.0	10.95	76	14.9	5.2	2.70	0	28.37	8.07
6453.0	.30	100	8.2	.0	2.70	9	28.24	8.06
6454.0	.02	100	5.2	1.2	2.69	6	28.17	8.06
6455.0	.00	100	3.9	.0	2.72	6	28.12	8.06
6456.0	.01	100	4.1	2.5	2.71	9	28.08	8.06
6457.0	.00	100	3.1	2.4	2.70	9	28.04	8.06

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6458.0	.00	100	1.8	1.1	2.69	8	28.01	8.06
6459.0	.01	100	4.4	1.3	2.68	6	27.99	8.06
6460.0	.96	94	9.9	8.0	2.62	6	27.93	8.06
6461.0	1.57	82	10.8	7.0	2.62	7	27.83	8.04
6462.0	.20	100	7.7	4.7	2.67	8	27.73	8.03
6463.0	.06	100	6.3	2.8	2.66	6	27.65	8.03
6464.0	.01	100	4.6	.0	2.68	6	27.59	8.03
6465.0	.00	100	3.7	.9	2.71	9	27.55	8.03
6466.0	.01	100	4.3	.0	2.70	9	27.51	8.03
6467.0	.06	100	6.2	1.1	2.68	8	27.47	8.03
6468.0	.01	100	4.9	1.8	2.71	8	27.41	8.03
6469.0	.00	100	3.1	.4	2.74	8	27.36	8.03
6470.0	.00	100	1.6	.0	2.82	8	27.34	8.03
6471.0	.00	100	1.9	.0	2.78	9	27.32	8.03
6472.0	.00	100	2.0	.0	2.77	9	27.30	8.03
6473.0	.00	100	2.5	.0	2.77	8	27.28	8.03
6474.0	.00	100	3.9	.0	2.73	11	27.26	8.03
6475.0	5.87	64	13.4	.0	2.62	12	27.20	8.03
6476.0	206.09	52	21.8	.0	2.66	12	27.03	7.98
6477.0	81.23	56	20.8	.0	2.59	16	26.82	7.88
6478.0	76.89	59	20.6	.7	2.57	17	26.61	7.79
6479.0	176.52	56	23.7	5.6	2.67	5	26.40	7.71
6480.0	169.73	57	23.5	19.0	2.69	0	26.16	7.60
6481.0	2.71	100	11.8	8.1	2.67	0	25.95	7.53
6482.0	.00	100	3.6	3.6	2.73	11	25.86	7.53
6483.0	.00	100	.9	.0	2.76	10	25.83	7.53
6484.0	.00	100	3.0	2.3	2.69	13	25.82	7.53
6485.0	2.63	100	11.7	.0	2.63	13	25.77	7.53
6486.0	90.51	76	21.2	2.2	2.64	15	25.62	7.53
6487.0	105.54	71	21.7	6.4	2.65	13	25.41	7.47
6488.0	85.77	70	21.0	4.8	2.55	16	25.20	7.41
6489.0	108.39	65	21.9	.0	2.53	12	24.99	7.35
6490.0	104.68	62	21.7	.0	2.52	13	24.77	7.27
6491.0	142.75	57	22.9	3.7	2.60	8	24.55	7.19
6492.0	261.38	48	25.0	9.0	2.68	0	24.32	7.08
6493.0	67.42	52	20.2	4.0	2.66	16	24.08	6.96
6494.0	62.59	50	19.9	4.5	2.67	17	23.88	6.87
6495.0	70.84	47	20.0	5.8	2.68	14	23.68	6.77
6496.0	14.20	57	15.6	6.9	2.67	9	23.49	6.67
6497.0	.33	100	8.3	8.3	2.67	0	23.34	6.62
6498.0	.00	100	2.0	1.4	2.75	12	23.28	6.62
6499.0	.00	100	.0	.0	2.77	11	23.27	6.62
6500.0	.00	100	.8	.0	2.73	7	23.27	6.62
6501.0	.00	100	.3	.0	2.77	5	23.26	6.62
6502.0	.00	100	3.1	.0	2.71	6	23.25	6.62
6503.0	.00	81	4.1	.0	2.66	8	23.22	6.62
6504.0	.02	76	5.1	.0	2.65	0	23.16	6.60
6505.0	.01	100	4.7	.0	2.65	1	23.11	6.59

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6506.0	.01	100	4.1	.0	2.65	0	23.07	6.59
6507.0	.00	100	3.2	.0	2.65	3	23.03	6.59
6508.0	.00	100	3.9	.0	2.65	7	22.99	6.59
6509.0	.00	90	.3	.0	2.70	17	22.97	6.59
6510.0	.00	100	.0	.0	2.76	15	22.97	6.59
6511.0	.00	100	.0	.0	2.79	15	22.97	6.59
6512.0	.00	100	.0	.0	2.75	14	22.97	6.59
6513.0	.00	100	.0	.0	2.75	13	22.97	6.59
6514.0	.00	100	.0	.0	2.76	14	22.97	6.59
6515.0	.00	100	.0	.0	2.75	13	22.97	6.59
6516.0	.00	100	.1	.0	2.73	11	22.97	6.59
6517.0	.00	100	.0	.0	2.72	12	22.97	6.59
6518.0	.00	100	.0	.0	2.76	12	22.97	6.59
6519.0	.00	100	.0	.0	2.79	11	22.97	6.59
6520.0	.00	100	.0	.0	2.77	11	22.97	6.59
6521.0	.00	100	.0	.0	2.72	11	22.97	6.59
6522.0	.00	100	.0	.0	2.72	12	22.96	6.59
6523.0	.00	100	2.6	.0	2.69	11	22.96	6.59
6524.0	.01	100	4.3	.0	2.65	0	22.92	6.59
6525.0	.06	100	6.3	.0	2.76	0	22.86	6.59
6526.0	.00	100	3.5	.0	2.76	0	22.81	6.59
[illegible]7.0	.00	100	3.3	.0	2.82	0	22.78	6.59
[illegible]8.0	.02	100	2.5	.0	2.71	0	22.75	6.59
6529.0	.00	22	1.2	.0	2.70	17	22.73	6.59
6530.0	.00	33	.9	.0	2.70	12	22.72	6.58
6531.0	.00	81	.4	.0	2.71	11	22.71	6.58
6532.0	.00	69	.5	.0	2.73	12	22.70	6.57
6533.0	.00	26	1.6	.0	2.75	12	22.70	6.56
6534.0	.00	52	.9	.0	2.72	11	22.68	6.56
6535.0	.00	84	1.4	.0	2.72	9	22.67	6.56
6536.0	.00	100	.0	.0	2.66	14	22.66	6.56
6537.0	.00	100	4.0	.0	2.65	3	22.65	6.56
6538.0	.00	100	2.7	.0	2.65	10	22.61	6.56
6539.0	.00	100	3.2	.0	2.70	6	22.59	6.56
6540.0	.04	99	5.8	.0	2.65	2	22.56	6.56
6541.0	.12	83	7.0	.0	2.65	1	22.49	6.53
6542.0	.08	79	6.5	.0	2.65	3	22.43	6.53
6543.0	.18	59	7.5	.0	2.67	5	22.35	6.50
6544.0	.54	45	8.6	.0	2.74	0	22.28	6.47
6545.0	.05	51	6.1	.0	2.76	0	22.20	6.42
6546.0	.00	100	3.9	.0	2.75	0	22.14	6.40
6547.0	.00	100	3.8	.0	2.65	3	22.11	6.40
6548.0	.00	100	2.7	.0	2.67	6	22.06	6.40
6549.0	.00	63	1.1	.0	2.68	13	22.04	6.40
6550.0	.00	100	1.8	.0	2.67	10	22.03	6.40
6551.0	.00	100	3.6	.0	2.65	0	22.01	6.40
6552.0	.00	100	3.9	.0	2.67	4	21.97	6.40
6553.0	.00	100	3.4	.0	2.65	1	21.93	6.40

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6554.0	1.00	55	10.0	.0	2.65	5	21.89	6.40
6555.0	.01	100	4.9	.0	2.65	9	21.79	6.35
6556.0	1.96	46	10.9	.0	2.65	12	21.72	6.33
6557.0	.03	100	5.6	.0	2.65	18	21.61	6.30
6558.0	.10	69	6.8	.0	2.65	14	21.56	6.30
6559.0	.02	92	5.4	.0	2.65	13	21.50	6.29
6560.0	.09	78	6.7	.0	2.65	13	21.44	6.28
6561.0	.13	57	7.2	.0	2.68	19	21.38	6.26
6562.0	.94	51	9.9	.0	2.69	14	21.30	6.22
6563.0	1.49	51	10.7	.0	2.72	11	21.20	6.17
6564.0	1.04	55	10.1	.0	2.70	9	21.09	6.13
6565.0	.77	57	9.6	.0	2.70	9	20.99	6.08
6566.0	1.87	48	11.0	.0	2.73	9	20.90	6.04
6567.0	.43	59	8.7	.0	2.71	11	20.79	5.99
6568.0	.10	73	6.8	.0	2.71	11	20.71	5.96
6569.0	.20	69	7.7	.0	2.67	9	20.64	5.94
6570.0	.13	81	7.1	.0	2.67	10	20.56	5.92
6571.0	.08	90	6.6	.0	2.68	11	20.49	5.91
6572.0	.15	77	7.3	.0	2.66	11	20.42	5.90
6573.0	.46	55	8.8	.0	2.69	13	20.35	5.87
6574.0	.03	75	5.6	.0	2.75	15	20.26	5.84
6575.0	.00	100	1.0	.0	2.78	12	20.22	5.83
6576.0	.00	100	.6	.0	2.73	9	20.21	5.83
6577.0	.00	100	.6	.0	2.74	8	20.20	5.83
6578.0	.00	100	.3	.0	2.75	8	20.20	5.83
6579.0	.00	100	2.4	.0	2.72	9	20.19	5.83
6580.0	.00	100	1.7	.0	2.74	8	20.16	5.83
6581.0	.00	100	2.5	.0	2.69	8	20.14	5.83
6582.0	.00	100	2.1	.0	2.67	7	20.12	5.83
6583.0	.00	100	3.0	.0	2.67	7	20.09	5.83
6584.0	.00	100	2.9	.0	2.75	8	20.06	5.83
6585.0	.00	100	2.7	.0	2.71	9	20.03	5.83
6586.0	.01	100	4.6	.0	2.68	9	20.00	5.83
6587.0	.00	100	3.1	.0	2.72	9	19.96	5.83
6588.0	.00	100	3.8	.0	2.72	6	19.93	5.83
6589.0	.00	100	3.6	.0	2.71	5	19.89	5.83
6590.0	.00	100	3.0	.0	2.71	6	19.85	5.83
6591.0	.01	100	4.6	.0	2.71	7	19.82	5.83
6592.0	.00	100	2.9	.0	2.70	6	19.78	5.83
6593.0	.00	100	3.6	.0	2.73	5	19.75	5.83
6594.0	.00	100	3.6	.0	2.68	5	19.71	5.83
6595.0	.00	100	3.1	.0	2.65	0	19.67	5.83
6596.0	.00	100	3.4	.0	2.66	8	19.63	5.83
6597.0	.00	100	3.0	.0	2.69	8	19.59	5.83
6598.0	.00	100	2.9	.0	2.68	8	19.56	5.83
6599.0	.03	78	5.7	.0	2.65	0	19.53	5.83
6600.0	.01	93	4.4	.0	2.66	5	19.47	5.81
6601.0	.00	100	3.5	.0	2.67	5	19.43	5.81

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6602.0	.00	100	2.2	.0	2.70	6	19.40	5.81
6603.0	.00	100	2.3	.0	2.69	7	19.37	5.80
6604.0	.00	94	3.7	.0	2.69	6	19.34	5.80
6605.0	.00	100	3.4	.0	2.65	0	19.31	5.80
6606.0	.01	83	4.6	.0	2.65	0	19.26	5.79
6607.0	.00	100	4.0	.0	2.65	0	19.23	5.79
6608.0	.02	91	5.1	.0	2.65	0	19.19	5.79
6609.0	.00	61	3.6	.0	2.71	6	19.14	5.78
6610.0	.00	74	1.3	.0	2.73	7	19.12	5.77
6611.0	.00	76	1 4	.0	2.73	6	19.10	5.77
6612.0	.00	74	1.3	.0	2.72	7	19.09	5.76
6613.0	.00	67	1.3	.0	2.71	7	19.08	5.76
6614.0	.00	100	.3	.0	2.74	6	19.07	5.76
6615.0	.00	100	.0	.0	2.80	5	19.06	5.76
6616.0	.00	100	.0	.0	2.79	7	19.06	5.76
6617.0	.00	100	.0	.0	2.74	7	19.06	5.76
6618.0	.00	100	.6	.0	2.73	7	19.06	5.76
6619.0	.00	100	.7	.0	2.74	8	19.06	5.76
6620.0	.00	100	.3	.0	2.76	9	19.05	5.76
6621.0	.00	100	.0	.0	2.77	11	19.05	5.76
6622.0	.00	100	.4	.0	2.75	8	19.05	5.76
6623.0	.00	100	1.0	.0	2.74	6	19.04	5.76
6624.0	.00	100	1.4	.0	2.74	8	19.03	5.76
6625.0	.00	81	.5	.0	2.76	11	19.02	5.75
6626.0	.00	73	.6	.0	2.75	11	19.01	5.75
6627.0	.00	100	.0	.0	2.78	8	19.01	5.75
6628.0	.00	100	.0	.0	2.82	9	19.01	5.75
6629.0	.00	100	.0	.0	2.79	8	19.01	5.75
6630.0	.00	84	.5	.0	2.76	9	19.01	5.75
6631.0	.00	93	.5	.0	2.75	10	19.00	5.75
6632.0	.00	98	.3	.0	2.74	9	19.00	5.75
6633.0	.00	100	.0	.0	2.76	9	18.99	5.74
6634.0	.00	100	.0	.0	2.75	9	18.99	5.74
6635.0	.00	100	.0	.0	2.78	8	18.99	5.74
6636.0	.00	100	.1	.0	2.75	8	18.99	5.74
6637.0	.00	100	.4	.0	2.74	8	18.99	5.74
6638.0	.00	95	.5	.0	2.73	8	18.99	5.74
6639.0	.00	100	.6	.0	2.73	6	18.98	5.74
6640.0	.00	100	.0	.0	2.76	6	18.98	5.74
6641.0	.00	100	.0	.0	2.76	6	18.98	5.74
6642.0	.00	100	.0	.0	2.75	6	18.98	5.74
6643.0	.00	100	.0	.0	2.77	6	18.98	5.74
6644.0	.00	100	.0	.0	2.76	7	18.98	5.74
6645.0	.00	100	.2	.0	2.75	6	18.98	5.74
6646.0	.00	100	.8	.0	2.73	6	18.97	5.74
6647.0	.00	100	.9	.0	2.73	6	18.97	5.74
6648.0	.00	100	1.0	.0	2.74	7	18.96	5.74
6649.0	.00	100	.9	.0	2.73	6	18.95	5.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6650.0	.00	100	.1	.0	2.72	5	18.94	5.74
6651.0	.00	100	.6	.0	2.73	8	18.94	5.74
6652.0	.00	100	.8	.2	2.72	8	18.93	5.74
6653.0	.00	100	.5	.0	2.71	7	18.92	5.74
6654.0	.00	100	.3	.0	2.70	6	18.92	5.74
6655.0	.00	100	.0	.0	2.72	7	18.91	5.74
6656.0	.00	100	.0	.0	2.73	8	18.91	5.74
6657.0	.00	100	.0	.0	2.75	0	18.91	5.74
6658.0	.00	100	.0	.0	2.76	0	18.91	5.74
6659.0	.00	100	.0	.0	2.78	0	18.91	5.74
6660.0	.00	100	.0	.0	2.77	0	18.91	5.74
6661.0	.00	100	.0	.0	2.76	0	18.91	5.74
6662.0	.00	100	.0	.0	2.77	0	18.91	5.74
6663.0	.00	100	.0	.0	2.74	0	18.91	5.74
6664.0	.00	100	.0	.0	2.72	0	18.91	5.74
6665.0	.00	100	.0	.0	2.73	0	18.91	5.74
6666.0	.00	100	.0	.0	2.74	0	18.91	5.74
6667.0	.00	100	.0	.0	2.71	0	18.91	5.74
6668.0	.00	100	.0	.0	2.73	0	18.91	5.74
6669.0	.00	100	.0	.0	2.71	0	18.91	5.74
6670.0	.00	100	.0	.0	2.75	1	18.91	5.74
6671.0	.00	100	.0	.0	2.75	0	18.91	5.74
6672.0	.00	100	.0	.0	2.74	0	18.91	5.74
6673.0	.00	100	.0	.0	2.75	0	18.91	5.74
6674.0	.00	100	.0	.0	2.72	0	18.91	5.74
6675.0	.00	100	.0	.0	2.71	0	18.91	5.74
6676.0	.00	100	.1	.0	2.71	0	18.91	5.74
6677.0	.00	100	.0	.0	2.71	0	18.91	5.74
6678.0	.00	100	.0	.0	2.72	6	18.91	5.74
6679.0	.00	100	.3	.0	2.79	8	18.91	5.74
6680.0	.00	100	.7	.0	2.86	11	18.91	5.74
6681.0	.00	100	1.1	.0	2.85	12	18.90	5.74
6682.0	.00	100	1.2	.0	2.87	14	18.89	5.74
6683.0	.00	100	.5	.0	2.88	15	18.88	5.74
6684.0	.00	100	.3	.0	2.83	13	18.88	5.74
6685.0	.00	100	.1	.0	2.86	12	18.87	5.74
6686.0	.00	100	.3	.0	2.87	11	18.87	5.74
6687.0	.00	100	.5	.0	2.87	8	18.87	5.74
6688.0	.00	100	.7	.0	2.91	8	18.86	5.74
6689.0	.00	100	.7	.0	2.88	11	18.86	5.74
6690.0	.00	100	1.2	.0	2.86	12	18.85	5.74
6691.0	.00	100	1.0	.0	2.80	12	18.84	5.74
6692.0	.00	100	.6	.0	2.83	13	18.83	5.74
6693.0	.00	100	.7	.7	2.89	17	18.82	5.74
6694.0	.00	100	.9	.0	2.85	22	18.81	5.74
6695.0	.00	100	1.8	.0	2.86	20	18.80	5.74
6696.0	.00	100	9.3	1.1	2.82	0	18.78	5.74
6697.0	.00	100	.1	.1	2.90	25	18.76	5.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6698.0	.00	100	.8	.0	2.83	18	18.76	5.74
6699.0	.00	100	.6	.0	2.80	15	18.75	5.74
6700.0	.00	100	.0	.0	2.76	6	18.75	5.74
6701.0	.00	100	.0	.0	2.75	0	18.75	5.74
6702.0	.00	100	.0	.0	2.75	3	18.75	5.74
6703.0	.00	100	.0	.0	2.72	5	18.75	5.74
6704.0	.00	100	.0	.0	2.73	0	18.75	5.74
6705.0	.00	100	.0	.0	2.74	3	18.75	5.74
6706.0	.00	100	.0	.0	2.76	5	18.75	5.74
6707.0	.00	100	.0	.0	2.81	5	18.75	5.74
6708.0	.00	100	.2	.0	2.84	8	18.75	5.74
6709.0	.00	100	.8	.8	2.91	9	18.74	5.74
6710.0	.00	100	.8	.8	2.92	14	18.74	5.74
6711.0	.00	100	1.0	.5	2.85	15	18.73	5.74
6712.0	.00	100	1.4	.8	2.85	8	18.72	5.74
6713.0	.00	100	.9	.0	2.83	13	18.71	5.74
6714.0	.00	100	1.1	.0	2.83	12	18.70	5.74
6715.0	.00	100	1.5	.0	2.87	12	18.69	5.74
6716.0	.00	100	1.8	.0	2.87	14	18.67	5.74
6717.0	.00	100	2.1	.0	2.86	20	18.65	5.74
6718.0	.00	100	2.9	.2	2.85	7	18.63	5.74
6719.0	.00	100	.0	.0	2.90	25	18.61	5.74
6720.0	.00	100	.0	.0	2.93	28	18.61	5.74
6721.0	.00	100	.9	.8	2.86	12	18.61	5.74
6722.0	.00	100	.0	.0	2.87	20	18.60	5.74
6723.0	.00	100	1.1	1.1	2.89	12	18.60	5.74
6724.0	.00	100	1.5	.2	2.87	11	18.59	5.74
6725.0	.00	100	3.1	.3	2.83	9	18.56	5.74
6726.0	.05	94	6.0	.0	2.71	11	18.53	5.74
6727.0	117.76	27	18.2	.2	2.79	14	18.45	5.72
6728.0	1149.87	23	25.0	7.0	2.85	0	18.25	5.57
6729.0	996.28	24	25.0	21.7	2.70	0	18.00	5.38
6730.0	127.41	32	19.5	3.9	2.88	0	17.75	5.20
6731.0	.46	78	8.8	.0	2.82	22	17.60	5.11
6732.0	.38	72	8.4	.0	2.81	20	17.52	5.09
6733.0	.10	87	5.8	.3	2.76	12	17.43	5.07
6734.0	.01	100	4.5	.3	2.83	8	17.37	5.06
6735.0	.00	100	2.0	1.9	2.96	17	17.33	5.05
6736.0	.00	100	2.5	.0	2.93	13	17.31	5.06
6737.0	.00	100	2.4	1.5	2.93	13	17.29	5.06
6738.0	.00	100	2.4	.0	2.93	11	17.26	5.06
6739.0	.00	100	1.9	.0	2.85	10	17.24	5.06
6740.0	.00	100	1.8	.5	2.86	6	17.22	5.06
6741.0	.00	100	1.7	.0	2.89	8	17.20	5.06
6742.0	.00	100	1.2	.0	2.86	9	17.19	5.06
6743.0	.00	100	1.8	.0	2.82	9	17.17	5.06
6744.0	.00	100	2.4	.0	2.88	6	17.15	5.06
6745.0	.00	100	2.0	.1	2.82	6	17.13	5.06

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6746.0	.00	100	1.8	.0	2.84	8	17.11	5.06
6747.0	.00	100	2.1	.0	2.87	9	17.09	5.06
6748.0	.00	100	2.3	.8	2.83	8	17.07	5.06
6749.0	.00	100	1.9	.1	2.87	6	17.04	5.06
6750.0	.00	100	1.7	.0	2.86	6	17.02	5.06
6751.0	.00	100	1.7	.0	2.87	6	17.01	5.06
6752.0	.00	100	1.8	.8	2.89	8	16.99	5.06
6753.0	.00	100	2.0	.0	2.89	8	16.97	5.06
6754.0	.00	100	1.3	.0	2.84	8	16.95	5.06
6755.0	.00	100	1.8	.0	2.87	8	16.94	5.06
6756.0	.00	100	2.0	.0	2.84	6	16.92	5.06
6757.0	.00	100	1.9	.0	2.82	5	16.90	5.06
6758.0	.00	100	1.3	.0	2.83	7	16.88	5.06
6759.0	.00	100	1.0	.0	2.88	8	16.87	5.06
6760.0	.00	100	1.1	.0	2.85	6	16.86	5.06
6761.0	.00	100	1.8	.0	2.87	5	16.85	5.06
6762.0	.00	100	2.8	.0	2.91	6	16.82	5.06
6763.0	.00	100	2.6	.0	2.87	5	16.80	5.06
6764.0	.00	85	2.9	.0	2.85	5	16.77	5.06
6765.0	.00	100	2.4	.0	2.87	3	16.74	5.06
6766.0	.00	100	2.2	.0	2.87	3	16.72	5.06
6767.0	.00	100	2.3	.0	2.86	2	16.70	5.06
6768.0	.00	100	2.3	.0	2.76	4	16.68	5.06
6769.0	.00	100	3.1	.0	2.75	5	16.65	5.06
6770.0	.01	84	4.3	.0	2.80	6	16.62	5.06
6771.0	.01	100	4.3	.0	2.79	6	16.57	5.05
6772.0	.00	100	3.4	.0	2.75	7	16.53	5.05
6773.0	.00	100	3.4	.0	2.78	8	16.50	5.05
6774.0	.00	100	3.4	.6	2.75	5	16.46	5.05
6775.0	.00	100	1.8	.1	2.71	5	16.43	5.05
6776.0	.00	100	.2	.0	2.70	3	16.42	5.05
6777.0	.00	100	.2	.1	2.71	0	16.42	5.05
6778.0	.00	100	.0	.0	2.75	0	16.42	5.05
6779.0	.00	100	.0	.0	2.74	0	16.42	5.05
6780.0	.00	100	.0	.0	2.75	0	16.42	5.05
6781.0	.00	100	.0	.0	2.77	0	16.42	5.05
6782.0	.00	100	.0	.0	2.76	1	16.42	5.05
6783.0	.00	100	.4	.0	2.78	3	16.42	5.05
6784.0	.00	100	2.0	.3	2.84	3	16.41	5.05
6785.0	.00	100	1.8	.6	2.90	0	16.39	5.05
6786.0	.00	100	.6	.0	2.85	0	16.37	5.05
6787.0	.00	100	.0	.0	2.81	0	16.37	5.05
6788.0	.00	100	.0	.0	2.79	3	16.37	5.05
6789.0	.00	100	.0	.0	2.72	0	16.37	5.05
6790.0	.00	100	.0	.0	2.76	1	16.37	5.05
6791.0	.00	100	.1	.0	2.75	5	16.37	5.05
6792.0	.00	100	1.4	.0	2.73	5	16.37	5.05
6793.0	.00	100	2.1	.0	2.74	6	16.35	5.05

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6794.0	.00	100	1.6	1.2	2.69	7	16.33	5.05
6795.0	.00	100	.1	.1	2.71	6	16.32	5.05
6796.0	.00	100	.4	.4	2.70	0	16.32	5.05
6797.0	.00	100	.4	.4	2.70	0	16.31	5.05
6798.0	.00	100	.0	.0	2.72	0	16.31	5.05
6799.0	.00	100	.0	.0	2.73	0	16.31	5.05
6800.0	.00	100	.0	.0	2.75	0	16.31	5.05
6801.0	.00	100	.0	.0	2.74	0	16.31	5.05
6802.0	.00	100	.0	.0	2.73	0	16.31	5.05
6803.0	.00	100	.0	.0	2.72	0	16.31	5.05
6804.0	.00	100	.0	.0	2.72	0	16.31	5.05
6805.0	.00	100	.0	.0	2.71	0	16.31	5.05
6806.0	.00	100	.0	.0	2.71	0	16.31	5.05
6807.0	.00	100	.0	.0	2.72	0	16.31	5.05
6808.0	.00	100	.0	.0	2.75	1	16.31	5.05
6809.0	.00	100	.0	.0	2.76	6	16.31	5.05
6810.0	.00	100	.0	.0	2.76	3	16.31	5.05
6811.0	.00	100	.0	.0	2.78	3	16.31	5.05
6812.0	.00	100	.0	.0	2.74	1	16.31	5.05
6813.0	.00	100	.1	.1	2.71	3	16.31	5.05
6814.0	.00	100	.2	.0	2.71	1	16.31	5.05
6815.0	.00	100	.0	.0	2.72	0	16.31	5.05
6816.0	.00	100	.0	.0	2.77	0	16.31	5.05
6817.0	.00	100	.0	.0	2.75	0	16.31	5.05
6818.0	.00	100	.0	.0	2.71	0	16.31	5.05
6819.0	.00	100	.0	.0	2.72	0	16.31	5.05
6820.0	.00	100	.0	.0	2.73	0	16.31	5.05
6821.0	.00	100	.1	.0	2.71	0	16.31	5.05
6822.0	.00	100	.1	.0	2.71	0	16.30	5.05
6823.0	.00	100	.0	.0	2.71	0	16.30	5.05
6824.0	.00	100	.0	.0	2.74	2	16.30	5.05
6825.0	.00	100	.0	.0	2.75	2	16.30	5.05
6826.0	.00	100	.0	.0	2.74	1	16.30	5.05
6827.0	.00	100	2.0	.0	2.71	0	16.30	5.05
6828.0	.42	55	8.6	.0	2.79	2	16.27	5.05
6829.0	434.41	23	21.3	.0	2.90	0	16.14	4.97
6830.0	781.20	21	22.8	.0	2.71	0	15.92	4.80
6831.0	91.38	30	18.1	.0	2.71	0	15.70	4.62
6832.0	211.72	21	18.3	.0	2.71	0	15.52	4.50
6833.0	13.22	13	10.0	.0	2.75	0	15.33	4.35
6834.0	.41	14	5.7	.0	2.71	0	15.25	4.27
6835.0	.00	98	1.6	.0	2.71	0	15.20	4.24
6836.0	.00	100	1.0	.0	2.71	0	15.19	4.24
6837.0	.00	100	.1	.0	2.72	3	15.18	4.24
6838.0	.00	100	.0	.0	2.75	2	15.18	4.24
6839.0	.00	100	.2	.0	2.72	2	15.18	4.24
6840.0	.00	100	.0	.0	2.72	2	15.18	4.24
6841.0	.00	100	.2	.2	2.70	1	15.18	4.24

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6842.0	.00	100	.3	.0	2.74	1	15.18	4.24
6843.0	.00	100	.6	.0	2.72	1	15.17	4.24
6844.0	.00	100	.8	.1	2.74	2	15.17	4.24
6845.0	.00	100	.5	.0	2.74	3	15.16	4.24
6846.0	.00	100	1.4	.0	2.74	6	15.15	4.24
6847.0	.00	100	.9	.0	2.74	9	15.14	4.24
6848.0	.00	100	1.0	.0	2.71	10	15.13	4.24
6849.0	.00	100	.8	.0	2.71	8	15.12	4.24
6850.0	.00	100	.6	.0	2.71	11	15.11	4.24
6851.0	.00	100	1.0	.0	2.70	9	15.10	4.24
6852.0	.00	100	.4	.0	2.73	8	15.09	4.24
6853.0	.00	100	.3	.0	2.73	5	15.09	4.24
6854.0	.00	100	.8	.0	2.72	3	15.09	4.24
6855.0	.00	100	1.4	.0	2.71	2	15.08	4.24
6856.0	.00	60	3.1	1.5	2.71	1	15.06	4.24
6857.0	.00	65	3.6	.0	2.70	2	15.03	4.22
6858.0	.00	93	3.2	.0	2.68	2	14.99	4.21
6859.0	.00	100	1.3	.0	2.69	1	14.97	4.21
6860.0	.00	100	1.2	.0	2.68	0	14.95	4.21
6861.0	.00	100	2.3	.2	2.69	1	14.94	4.21
6862.0	.00	100	1.5	.0	2.72	1	14.92	4.21
6863.0	.00	100	1.9	.0	2.70	0	14.90	4.21
6864.0	.00	100	2.0	1.3	2.69	1	14.88	4.21
6865.0	.00	100	2.0	.0	2.70	0	14.86	4.21
6866.0	.00	100	2.4	1.2	2.69	1	14.84	4.21
6867.0	.00	100	3.3	1.6	2.70	3	14.81	4.21
6868.0	.00	100	2.1	.0	2.70	4	14.78	4.21
6869.0	.00	100	.5	.0	2.71	7	14.76	4.21
6870.0	.00	100	.3	.0	2.70	6	14.76	4.21
6871.0	.00	100	.4	.2	2.70	4	14.76	4.21
6872.0	.00	100	.4	.4	2.71	9	14.76	4.21
6873.0	.00	100	1.1	.0	2.73	8	14.75	4.21
6874.0	.00	100	1.1	.3	2.69	8	14.74	4.21
6875.0	.00	100	1.6	.0	2.70	7	14.73	4.21
6876.0	.00	100	1.2	.0	2.69	6	14.71	4.21
6877.0	.00	100	1.0	.0	2.70	5	14.70	4.21
6878.0	.00	100	1.0	.0	2.74	4	14.69	4.21
6879.0	.00	100	.9	.0	2.74	5	14.68	4.21
6880.0	.00	100	1.0	.0	2.73	4	14.67	4.21
6881.0	.00	100	.9	.0	2.78	6	14.66	4.21
6882.0	.00	100	.6	.0	2.78	6	14.65	4.21
6883.0	.00	100	1.1	.0	2.76	3	14.65	4.21
6884.0	.00	100	1.3	.0	2.74	3	14.63	4.21
6885.0	.00	100	.8	.0	2.76	5	14.62	4.21
6886.0	.00	100	1.7	.0	2.69	4	14.61	4.21
6887.0	.00	100	1.0	.0	2.70	5	14.60	4.21
6888.0	.00	100	1.0	.0	2.69	5	14.59	4.21
6889.0	.00	100	.6	.0	2.70	5	14.58	4.21

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6890.0	.00	100	.3	.0	2.71	4	14.58	4.21
6891.0	.00	100	.7	.0	2.74	5	14.57	4.21
6892.0	.00	100	.9	.0	2.72	3	14.57	4.21
6893.0	.00	100	.5	.0	2.73	3	14.56	4.21
6894.0	.00	100	.3	.0	2.73	4	14.55	4.21
6895.0	.00	100	.9	.0	2.78	5	14.55	4.21
6896.0	.00	100	1.3	1.3	2.78	4	14.54	4.21
6897.0	.00	100	1.4	.4	2.75	4	14.53	4.21
6898.0	.00	100	1.2	.0	2.72	5	14.51	4.21
6899.0	.00	100	1.1	.0	2.76	7	14.50	4.21
6900.0	.00	100	.8	.8	2.71	6	14.49	4.21
6901.0	.00	100	.4	.2	2.73	3	14.48	4.21
6902.0	.00	100	.3	.0	2.73	3	14.48	4.21
6903.0	.00	100	.7	.0	2.74	3	14.48	4.21
6904.0	.00	100	.7	.2	2.73	3	14.47	4.21
6905.0	.00	100	2.0	.2	2.68	3	14.46	4.21
6906.0	.00	100	1.8	.0	2.73	3	14.44	4.21
6907.0	.00	100	2.7	1.3	2.78	4	14.42	4.21
6908.0	.00	100	4.1	1.2	2.82	0	14.39	4.21
6909.0	.00	100	3.9	1.8	2.79	0	14.35	4.21
6910.0	.00	100	1.8	.0	2.81	8	14.32	4.21
6911.0	.00	100	1.7	.2	2.91	8	14.30	4.21
6912.0	.00	100	1.9	1.4	2.89	8	14.28	4.21
6913.0	.00	100	2.7	.5	2.88	0	14.26	4.21
6914.0	.00	100	3.1	1.1	2.83	0	14.23	4.21
6915.0	.00	100	2.6	.0	2.82	2	14.20	4.21
6916.0	.00	100	2.6	.0	2.83	1	14.18	4.21
6917.0	.00	100	2.4	.0	2.85	2	14.15	4.21
6918.0	.00	100	2.3	.0	2.87	3	14.13	4.21
6919.0	.00	100	3.1	.0	2.87	3	14.10	4.21
6920.0	.00	100	3.5	.7	2.90	3	14.07	4.21
6921.0	.00	100	3.6	.0	2.86	3	14.03	4.21
6922.0	.02	100	5.0	.8	2.86	0	14.00	4.21
6923.0	.04	100	5.9	.5	2.81	6	13.94	4.21
6924.0	.02	100	5.0	.0	2.75	8	13.88	4.21
6925.0	.00	100	3.0	.8	2.77	10	13.84	4.21
6926.0	.00	100	2.1	.0	2.83	9	13.81	4.21
6927.0	.00	100	1.9	.2	2.84	6	13.79	4.21
6928.0	.00	100	1.1	.0	2.78	6	13.77	4.21
6929.0	.00	100	.8	.1	2.71	6	13.76	4.21
6930.0	.00	100	1.2	.5	2.70	7	13.75	4.21
6931.0	.00	100	.4	.0	2.70	3	13.74	4.21
6932.0	.00	100	.7	.5	2.70	6	13.74	4.21
6933.0	.00	100	1.6	1.8	2.69	6	13.73	4.21
6934.0	.00	100	1.7	1.7	2.67	9	13.71	4.21
6935.0	.00	100	1.4	1.4	2.69	8	13.69	4.21
6936.0	.00	100	1.0	.9	2.70	8	13.68	4.21
6937.0	.00	100	1.3	1.3	2.69	9	13.66	4.21

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6938.0	.00	100	2.0	2.0	2.67	8	13.65	4.21
6939.0	.00	100	.2	.2	2.70	6	13.63	4.21
6940.0	.00	100	.0	.0	2.72	0	13.63	4.21
6941.0	.00	100	.0	.0	2.74	0	13.63	4.21
6942.0	.00	100	.0	.0	2.73	1	13.63	4.21
6943.0	.00	100	.0	.0	2.73	1	13.63	4.21
6944.0	.00	100	1.0	1.0	2.68	1	13.63	4.21
6945.0	.00	100	2.2	2.2	2.67	3	13.62	4.21
6946.0	.00	100	2.2	2.2	2.68	3	13.59	4.21
6947.0	.00	100	.9	.0	2.72	2	13.57	4.21
6948.0	.00	100	1.2	.0	2.74	3	13.56	4.21
6949.0	.00	100	1.4	.0	2.71	3	13.55	4.21
6950.0	.00	100	2.7	2.1	2.69	1	13.53	4.21
6951.0	.00	100	3.1	3.1	2.71	0	13.51	4.21
6952.0	.00	100	3.9	1.9	2.75	4	13.47	4.21
6953.0	.01	81	5.0	1.9	2.77	6	13.43	4.21
6954.0	.07	57	6.4	2.6	2.79	0	13.38	4.19
6955.0	1.65	23	8.5	8.5	2.77	0	13.31	4.16
6956.0	1.43	19	7.7	6.2	2.75	0	13.22	4.09
6957.0	5.36	17	9.3	9.3	2.69	5	13.15	4.03
6958.0	.26	24	6.3	6.3	2.68	3	13.05	3.95
6959.0	.89	18	7.0	7.0	2.63	3	12.98	3.90
6960.0	.01	49	4.8	4.8	2.64	5	12.92	3.85
6961.0	.00	100	3.0	3.0	2.65	3	12.87	3.83
6962.0	.00	100	2.1	2.1	2.69	4	12.84	3.83
6963.0	.01	92	4.2	4.2	2.70	0	12.82	3.83
6964.0	.01	84	4.3	3.2	2.70	4	12.77	3.82
6965.0	.00	100	3.6	1.9	2.70	3	12.73	3.81
6966.0	.00	100	1.4	.2	2.73	3	12.70	3.81
6967.0	.00	100	1.1	.0	2.72	2	12.69	3.81
6968.0	.00	100	1.1	.0	2.71	4	12.67	3.81
6969.0	.00	100	2.5	1.4	2.70	4	12.66	3.81
6970.0	.01	100	4.2	2.4	2.67	3	12.63	3.81
6971.0	.03	100	5.4	1.1	2.67	3	12.59	3.81
6972.0	.02	100	5.2	2.4	2.69	5	12.53	3.81
6973.0	.01	96	4.6	2.7	2.71	4	12.48	3.81
6974.0	.03	66	5.6	2.6	2.69	2	12.43	3.80
6975.0	.02	72	5.3	2.3	2.67	2	12.38	3.79
6976.0	.03	76	5.7	4.2	2.67	1	12.32	3.77
6977.0	.01	98	4.2	1.9	2.67	2	12.27	3.75
6978.0	.00	100	3.2	.0	2.69	3	12.23	3.76
6979.0	.00	100	2.2	.4	2.70	3	12.20	3.76
6980.0	.00	100	2.9	1.7	2.73	3	12.17	3.76
6981.0	.00	100	3.6	.9	2.72	3	12.14	3.76
6982.0	.01	100	4.9	.8	2.74	3	12.10	3.76
6983.0	.02	95	5.3	1.7	2.68	5	12.05	3.75
6984.0	.03	90	5.5	1.0	2.71	4	12.00	3.75
6985.0	.08	71	6.6	1.0	2.73	6	11.94	3.74

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
6986.0	.33	48	8.3	.0	2.68	5	11.87	3.71
6987.0	.08	60	6.6	3.8	2.63	6	11.79	3.67
6988.0	.00	100	3.6	.2	2.65	4	11.73	3.66
6989.0	.01	89	4.5	4.5	2.66	2	11.69	3.66
6990.0	.01	77	4.8	2.5	2.68	1	11.65	3.65
6991.0	.01	77	4.8	2.9	2.63	1	11.60	3.61
6992.0	.00	100	3.7	1.4	2.67	1	11.55	3.63
6993.0	.00	100	3.2	1.4	2.70	1	11.51	3.63
6994.0	.01	47	4.4	.0	2.70	0	11.48	3.63
6995.0	.01	27	3.9	.0	2.74	0	11.44	3.61
6996.0	.37	20	6.3	.0	2.74	1	11.39	3.57
6997.0	1.85	27	9.1	.0	2.71	1	11.31	3.51
6998.0	27.49	20	12.9	.0	2.83	0	11.22	3.44
6999.0	1641.14	10	20.4	.0	2.65	0	11.06	3.30
7000.0	87.21	15	14.2	.0	2.65	0	10.85	3.12
7001.0	.61	28	7.6	.0	2.65	0	10.75	3.04
7002.0	.18	17	5.3	.0	2.65	2	10.68	2.99
7003.0	3.57	10	7.4	.0	2.65	0	10.63	2.95
7004.0	4.56	10	7.7	.0	2.65	0	10.55	2.87
7005.0	411.72	5	13.3	.0	2.65	0	10.48	2.82
7006.0	19.52	23	12.8	.0	2.65	0	10.33	2.67
7007.0	.00	100	.0	.0	1.50	0	10.26	2.62
7008.0	.00	100	.0	.0	1.50	0	10.26	2.62
7009.0	.00	100	.0	.0	1.50	0	10.26	2.62
7010.0	4.49	36	11.5	.0	2.65	0	10.26	2.62
7011.0	3.17	18	8.6	.0	2.82	6	10.15	2.55
7012.0	.00	100	.0	.0	2.78	0	10.10	2.51
7013.0	.22	16	5.3	.0	2.75	1	10.07	2.48
7014.0	.00	47	2.5	.0	2.74	0	10.03	2.45
7015.0	.00	100	.0	.0	2.72	0	10.00	2.43
7016.0	.00	100	1.2	.0	2.71	2	9.99	2.43
7017.0	.00	61	2.6	.0	2.72	1	9.97	2.42
7018.0	.00	100	.0	.0	2.72	0	9.95	2.42
7019.0	.00	38	3.3	.0	2.73	0	9.94	2.41
7020.0	.01	29	3.9	.0	2.71	1	9.90	2.40
7021.0	.10	46	6.7	.0	2.65	0	9.86	2.37
7022.0	.01	83	4.6	.0	2.65	0	9.80	2.34
7023.0	.00	100	.7	.0	2.65	0	9.77	2.34
7024.0	.00	100	.2	.0	2.72	1	9.76	2.34
7025.0	.00	100	2.6	.0	2.78	2	9.74	2.34
7026.0	.00	100	2.5	1.4	2.71	1	9.71	2.34
7027.0	.00	82	3.1	.0	2.73	1	9.69	2.34
7028.0	.12	54	7.0	2.0	2.69	2	9.65	2.33
7029.0	6.11	41	12.7	7.9	2.65	6	9.57	2.29
7030.0	411.34	26	22.0	17.7	2.74	0	9.41	2.19
7031.0	268.71	29	21.3	7.1	2.75	0	9.19	2.02
7032.0	59.61	35	17.6	9.0	2.72	0	8.99	1.86
7033.0	1.37	57	10.5	3.4	2.70	12	8.82	1.78

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7034.0	.37	76	8.5	.2	2.72	9	8.72	1.74
7035.0	.32	73	8.3	4.2	2.72	0	8.64	1.73
7036.0	.25	63	7.9	.0	2.70	6	8.56	1.70
7037.0	.00	100	2.6	.0	2.68	9	8.50	1.69
7038.0	.00	100	.9	.2	2.71	7	8.48	1.69
7039.0	.00	100	1.3	.2	2.72	5	8.47	1.69
7040.0	.00	100	2.5	2.0	2.74	3	8.45	1.69
7041.0	.00	100	3.0	.0	2.79	3	8.42	1.69
7042.0	.00	100	3.5	1.2	2.82	0	8.39	1.69
7043.0	.00	100	3.7	2.0	2.78	2	8.36	1.69
7044.0	.00	100	3.4	3.4	2.76	0	8.32	1.69
7045.0	.00	100	1.2	.0	2.74	3	8.29	1.69
7046.0	.00	100	1.1	1.1	2.69	3	8.28	1.69
7047.0	.00	100	.0	.0	2.72	4	8.27	1.69
7048.0	.00	100	.0	.0	2.71	1	8.27	1.69
7049.0	.00	100	.0	.0	2.76	5	8.27	1.69
7050.0	.00	100	.0	.0	2.77	6	8.27	1.69
7051.0	.00	100	.7	.0	2.81	6	8.27	1.69
7052.0	.00	100	2.1	1.2	2.82	3	8.26	1.69
7053.0	.00	100	2.8	1.6	2.82	0	8.24	1.69
7054.0	.01	67	4.2	2.4	2.81	0	8.21	1.69
7055.0	.00	84	3.4	3.4	2.78	0	8.17	1.68
7056.0	.00	100	2.7	.1	2.81	3	8.14	1.67
7057.0	.00	100	2.6	.0	2.76	3	8.11	1.67
7058.0	.00	93	3.3	.3	2.78	3	8.08	1.67
7059.0	.00	100	3.0	1.3	2.77	4	8.05	1.67
7060.0	.00	100	2.9	1.2	2.78	4	8.02	1.67
7061.0	.00	100	2.8	.6	2.76	5	7.99	1.67
7062.0	.01	79	4.2	1.8	2.79	5	7.96	1.67
7063.0	.00	100	3.4	1.3	2.82	0	7.92	1.67
7064.0	.00	100	3.3	2.1	2.82	0	7.89	1.67
7065.0	.00	100	2.7	1.1	2.81	3	7.86	1.67
7066.0	.00	100	2.9	2.3	2.78	0	7.83	1.67
7067.0	.00	100	2.3	1.9	2.72	2	7.80	1.67
7068.0	.00	95	2.0	2.0	2.72	2	7.78	1.67
7069.0	.00	100	3.2	3.2	2.69	3	7.76	1.66
7070.0	.30	42	7.8	7.8	2.69	0	7.72	1.66
7071.0	46.42	23	14.7	4.7	2.81	0	7.62	1.59
7072.0	7.55	29	11.7	.0	2.84	7	7.48	1.49
7073.0	.13	61	7.1	.0	2.81	8	7.37	1.42
7074.0	.01	100	4.8	4.8	2.72	0	7.31	1.40
7075.0	.01	100	4.5	3.1	2.75	0	7.26	1.40
7076.0	.00	100	3.8	2.2	2.74	8	7.22	1.40
7077.0	.01	100	4.2	2.2	2.79	0	7.18	1.40
7078.0	.00	100	4.1	3.2	2.79	0	7.14	1.40
7079.0	.16	60	7.4	3.4	2.77	0	7.09	1.40
7080.0	.20	100	7.7	3.4	2.73	0	7.01	1.37
7081.0	.06	100	6.2	2.7	2.70	19	6.94	1.37

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7082.0	.00	100	2.9	.0	2.75	33	6.89	1.37
7083.0	.00	100	1.0	.0	2.92	33	6.86	1.37
7084.0	.00	100	.4	.0	2.65	21	6.86	1.37
7085.0	.00	100	1.1	.1	2.85	15	6.85	1.37
7086.0	.00	100	1.6	.4	2.85	9	6.84	1.37
7087.0	.00	100	2.2	.7	2.83	6	6.82	1.37
7088.0	.00	100	2.5	1.0	2.80	6	6.80	1.37
7089.0	.00	100	3.0	.0	2.83	6	6.77	1.37
7090.0	.01	100	4.2	.0	2.80	5	6.74	1.37
7091.0	.01	100	4.3	.0	2.75	6	6.69	1.37
7092.0	.00	100	2.9	.0	2.80	6	6.65	1.37
7093.0	.00	100	2.2	.0	2.83	6	6.62	1.37
7094.0	.00	100	3.0	.2	2.84	5	6.60	1.37
7095.0	.00	100	3.4	.7	2.84	1	6.57	1.37
7096.0	.00	100	2.6	.0	2.82	7	6.54	1.37
7097.0	.00	100	3.1	.7	2.81	7	6.51	1.37
7098.0	.00	100	3.0	.0	2.84	6	6.48	1.37
7099.0	.00	100	2.3	.0	2.79	6	6.45	1.37
7100.0	.00	100	2.0	.0	2.81	4	6.43	1.37
7101.0	.00	100	2.4	.6	2.81	3	6.41	1.37
7102.0	.00	100	2.3	.0	2.80	3	6.38	1.37
7103.0	.00	100	3.5	2.2	2.80	0	6.36	1.37
7104.0	.00	100	3.9	.3	2.78	5	6.32	1.37
7105.0	.00	100	4.1	.0	2.80	6	6.28	1.37
7106.0	.00	100	4.0	.0	2.77	6	6.24	1.37
7107.0	.00	100	4.0	1.0	2.73	6	6.20	1.37
7108.0	.01	100	4.2	1.6	2.69	5	6.16	1.37
7109.0	.00	100	2.4	.0	2.71	3	6.12	1.37
7110.0	.00	100	1.7	.0	2.74	3	6.10	1.37
7111.0	.02	100	5.0	3.7	2.74	0	6.07	1.37
7112.0	.87	50	9.1	.0	2.80	6	6.00	1.35
7113.0	.11	76	6.9	.0	2.74	10	5.92	1.31
7114.0	.00	100	2.7	.3	2.74	10	5.86	1.30
7115.0	.00	100	3.2	.0	2.81	4	5.83	1.30
7116.0	.00	100	2.3	.0	2.82	3	5.80	1.30
7117.0	.00	100	2.6	.0	2.80	3	5.78	1.30
7118.0	.00	100	2.9	.0	2.83	3	5.75	1.30
7119.0	.00	100	3.1	.7	2.77	3	5.72	1.30
7120.0	.00	100	2.9	2.3	2.73	3	5.69	1.30
7121.0	.00	100	3.8	3.2	2.75	0	5.66	1.30
7122.0	.00	100	3.6	2.5	2.77	1	5.62	1.30
7123.0	.00	100	3.0	3.0	2.76	0	5.59	1.30
7124.0	.00	100	2.7	.5	2.72	10	5.56	1.30
7125.0	.04	100	4.8	.0	2.76	12	5.53	1.30
7126.0	.20	64	7.6	4.2	2.79	0	5.48	1.30
7127.0	.66	44	9.0	1.7	2.81	0	5.40	1.26
7128.0	.03	61	5.6	3.5	2.82	0	5.31	1.22
7129.0	.00	100	3.0	.6	2.84	0	5.26	1.20

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7130.0	.00	100	3.6	.5	2.82	5	5.23	1.20
7131.0	.00	100	3.4	.0	2.81	4	5.20	1.20
7132.0	.00	100	3.0	.9	2.73	6	5.17	1.20
7133.0	.00	100	3.2	1.9	2.74	6	5.13	1.20
7134.0	.00	100	2.7	.9	2.78	4	5.10	1.20
7135.0	.00	100	1.9	.0	2.83	3	5.08	1.20
7136.0	.00	100	2.1	.0	2.82	3	5.06	1.20
7137.0	.00	100	2.5	.1	2.83	3	5.04	1.20
7138.0	.00	100	2.0	1.4	2.90	3	5.02	1.20
7139.0	.00	100	2.3	.3	2.88	2	4.99	1.20
7140.0	.00	100	2.4	.0	2.83	3	4.97	1.20
7141.0	.00	100	1.9	.3	2.84	4	4.95	1.20
7142.0	.00	100	2.2	.0	2.86	4	4.93	1.20
7143.0	.00	100	2.5	1.5	2.83	0	4.90	1.20
7144.0	.00	100	2.1	.3	2.84	3	4.88	1.20
7145.0	.00	100	2.5	1.3	2.87	0	4.86	1.20
7146.0	.00	100	2.3	.8	2.87	0	4.83	1.20
7147.0	.00	100	2.1	.5	2.89	4	4.81	1.20
7148.0	.00	100	2.8	1.1	2.87	0	4.79	1.20
7149.0	.00	100	2.9	.0	2.85	4	4.76	1.20
7150.0	.00	100	2.1	.7	2.82	3	4.73	1.20
7151.0	.00	100	2.3	.0	2.85	4	4.71	1.20
7152.0	.00	100	3.0	2.4	2.89	0	4.69	1.20
7153.0	.00	100	1.9	.7	2.83	4	4.66	1.20
7154.0	.00	100	1.7	.0	2.89	4	4.64	1.20
7155.0	.00	100	1.9	.0	2.86	3	4.63	1.20
7156.0	.00	100	2.0	1.2	2.83	0	4.61	1.20
7157.0	.00	100	1.7	.0	2.80	3	4.58	1.20
7158.0	.00	100	2.9	.0	2.83	3	4.56	1.20
7159.0	.01	97	4.2	.0	2.80	5	4.53	1.20
7160.0	.00	100	3.8	2.9	2.73	4	4.49	1.20
7161.0	.00	100	2.1	1.5	2.78	3	4.46	1.20
7162.0	.00	100	1.8	.5	2.84	4	4.44	20
7163.0	.00	100	2.9	.9	2.85	0	4.42	20
7164.0	.00	100	3.7	2.3	2.83	0	4.38	1.20
7165.0	.00	100	2.7	.2	2.81	4	4.35	1.20
7166.0	.00	100	2.7	.0	2.80	4	4.32	1.20
7167.0	.00	100	3.7	.0	2.78	5	4.29	1.20
7168.0	.00	100	2.9	.0	2.82	6	4.25	1.20
7169.0	.00	100	1.9	.0	2.82	5	4.23	1.20
7170.0	.00	100	1.8	.0	2.83	6	4.21	1.20
7171.0	.00	100	1.6	.0	2.83	7	4.19	1.20
7172.0	.00	100	1.3	.0	2.83	8	4.18	1.20
7173.0	.00	100	1.1	.0	2.85	8	4.17	1.20
7174.0	.00	100	2.0	1.2	2.83	3	4.15	1.20
7175.0	.00	100	2.3	.7	2.84	6	4.13	1.20
7176.0	.01	83	4.5	3.5	2.84	0	4.10	1.20
7177.0	.01	90	4.3	3.9	2.85	0	4.06	1.20

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7178.0	.00	100	3.8	2.3	2.84	0	4.02	1.19
7179.0	.00	100	2.6	.6	2.84	4	3.98	1.19
7180.0	.00	100	3.0	.0	2.81	4	3.96	1.19
7181.0	.00	100	3.7	1.8	2.82	0	3.92	1.19
7182.0	.00	100	3.5	.0	2.86	5	3.89	1.19
7183.0	.00	100	3.2	.0	2.82	5	3.86	1.19
7184.0	.00	100	2.6	.0	2.84	6	3.82	1.19
7185.0	.00	100	3.0	.0	2.85	4	3.80	1.19
7186.0	.00	100	3.3	.0	2.81	5	3.77	1.19
7187.0	.00	100	2.9	.6	2.84	5	3.73	1.19
7188.0	.00	100	3.4	1.1	2.90	4	3.71	1.19
7189.0	.01	100	4.9	.0	2.85	3	3.67	1.19
7190.0	.01	100	4.4	.0	2.86	3	3.62	1.19
7191.0	.00	100	3.4	.0	2.86	5	3.58	1.19
7192.0	.00	100	3.0	.0	2.87	3	3.54	1.19
7193.0	.00	100	3.0	.0	2.85	4	3.51	1.19
7194.0	.00	100	1.8	1.5	2.89	8	3.49	1.19
7195.0	.00	100	1.8	.0	2.85	8	3.47	1.19
7196.0	.00	100	1.8	.0	2.85	9	3.45	1.19
7197.0	.00	100	2.7	.0	2.89	8	3.43	1.19
7198.0	.00	88	3.6	2.2	2.80	0	3.40	1.19
7199.0	.00	95	3.5	3.1	2.77	0	3.36	1.19
7200.0	.00	100	3.2	3.0	2.81	0	3.33	1.19
7201.0	.00	100	2.3	.9	2.82	6	3.30	1.19
7202.0	.00	87	3.3	2.7	2.83	0	3.27	1.19
7203.0	.00	68	3.6	2.4	2.89	0	3.24	1.18
7204.0	.00	100	2.1	.0	2.87	4	3.20	1.17
7205.0	.00	100	1.8	.0	2.86	4	3.18	1.17
7206.0	.00	100	1.8	.0	2.86	3	3.17	1.17
7207.0	.00	100	1.9	.0	2.84	2	3.15	1.17
7208.0	.00	100	1.5	.0	2.83	2	3.13	1.17
7209.0	.00	100	1.4	1.4	2.90	2	3.12	1.17
7210.0	.00	100	1.5	1.0	2.88	0	3.10	1.17
7211.0	.00	100	1.5	.2	2.86	2	3.09	1.17
7212.0	.00	100	1.7	.1	2.86	2	3.07	1.17
7213.0	.00	100	1.8	1.4	2.81	2	3.06	1.17
7214.0	.00	100	2.1	1.3	2.93	0	3.04	1.17
7215.0	.00	100	2.6	2.4	2.85	0	3.02	1.17
7216.0	.00	100	2.1	1.3	2.83	0	2.99	1.17
7217.0	.00	100	1.8	1.3	2.81	1	2.97	1.17
7218.0	.00	100	1.7	.5	2.85	1	2.95	1.17
7219.0	.00	100	1.2	.0	2.86	2	2.94	1.17
7220.0	.00	100	1.6	1.1	2.81	1	2.93	1.17
7221.0	.00	100	2.0	.6	2.86	1	2.91	1.17
7222.0	.00	100	1.5	.6	2.87	2	2.89	1.17
7223.0	.00	100	2.6	.5	2.85	0	2.87	1.17
7224.0	.00	91	3.0	2.7	2.90	0	2.84	1.17
7225.0	.00	100	2.6	1.0	2.87	0	2.81	1.17

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS PGR-FT	CUMULATIVE INTEGRATIONS HC-FT
7226.0	.00	100	2.3	1.7	2.86	0	2.79	1.17
7227.0	.00	100	1.0	1.3	2.81	3	2.77	1.17
7228.0	.00	100	1.9	1.0	2.84	2	2.76	1.17
7229.0	.00	100	1.7	.0	2.86	2	2.73	1.17
7230.0	.00	100	2.4	.2	2.86	2	2.71	1.17
7231.0	.00	100	3.0	1.9	2.84	0	2.68	1.17
7232.0	.01	71	4.2	4.0	2.81	0	2.65	1.17
7233.0	.02	48	5.0	5.0	2.81	0	2.61	1.15
7234.0	.02	44	4.9	4.4	2.81	0	2.56	1.13
7235.0	.01	48	4.4	4.4	2.78	0	2.51	1.10
7236.0	.06	34	5.6	3.3	2.82	0	2.47	1.08
7237.0	.81	24	7.6	5.0	2.90	0	2.41	1.04
7238.0	.99	24	7.9	4.3	2.81	0	2.33	.98
7239.0	.30	31	7.0	7.0	2.74	0	2.25	.92
7240.0	.11	39	6.4	4.5	2.77	0	2.18	.87
7241.0	.71	25	7.5	1.7	2.81	2	2.11	.83
7242.0	.36	25	6.8	5.8	2.83	0	2.04	.77
7243.0	.11	33	6.0	6.0	2.71	0	1.97	.73
7244.0	.01	49	4.9	4.4	2.73	0	1.91	.69
7245.0	.19	29	6.3	4.5	2.80	0	1.86	.66
7246.0	.01	43	4.6	2.5	2.83	0	1.80	.62
7247.0	.01	44	4.7	2.8	2.77	0	1.76	.59
7248.0	.05	36	5.4	2.7	2.82	0	1.71	.56
7249.0	.01	43	4.6	2.9	2.81	0	1.66	.53
7250.0	.01	42	4.3	1.3	2.83	0	1.61	.51
7251.0	.02	41	4.9	4.4	2.77	0	1.57	.48
7252.0	.04	40	5.4	5.1	2.77	0	1.51	.45
7253.0	.03	38	5.1	4.3	2.77	0	1.46	.42
7254.0	.00	45	3.9	3.9	2.76	0	1.41	.39
7255.0	.00	87	2.6	2.6	2.76	0	1.38	.38
7256.0	.00	100	1.8	1.8	2.81	0	1.36	.37
7257.0	.00	96	2.2	.7	2.83	3	1.34	.37
7258.0	.00	100	2.6	1.8	2.84	0	1.31	.37
7259.0	.00	90	3.3	1.8	2.88	0	1.29	.37
7260.0	.00	81	3.7	.9	2.84	0	1.25	.37
7261.0	.00	86	3.7	1.5	2.83	0	1.22	.37
7262.0	.00	90	3.5	2.8	2.79	0	1.18	.36
7263.0	.00	75	3.7	3.0	2.77	0	1.14	.35
7264.0	.00	100	2.4	2.4	2.73	3	1.11	.35
7265.0	.00	80	3.8	2.1	2.33	0	1.08	.34
7266.0	.00	100	3.7	1.5	2.88	0	1.04	.34
7267.0	.00	100	3.0	.0	2.83	3	1.01	.34
7268.0	.00	100	2.7	.0	2.81	3	.98	.34
7269.0	.00	100	2.5	.0	2.80	3	.95	.34
7270.0	.00	100	3.7	.0	2.83	4	.92	.34
7271.0	.22	59	7.8	7.8	2.98	0	.88	.34
7272.0	2.65	39	10.9	9.6	2.98	0	.81	.32
7273.0	2.35	41	10.8	.0	2.81	6	.70	.25

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7274.0	.87	45	9.5	.0	2.74	8	.60	.19
7275.0	.04	72	5.9	2.1	2.70	9	.51	.15
7276.0	.00	100	3.5	1.6	2.65	6	.46	.14
7277.0	.00	100	1.7	1.7	2.68	4	.43	.14
7278.0	.00	100	.8	.8	2.73	3	.41	.14
7279.0	.00	100	.8	.8	2.80	5	.40	.14
7280.0	.00	100	1.3	1.3	2.79	3	.39	.14
7281.0	.00	100	1.4	1.4	2.77	3	.38	.14
7282.0	.00	100	.5	.5	2.74	4	.37	.14
7283.0	.00	100	.6	.6	2.80	6	.36	.14
7284.0	.00	100	.7	.0	2.86	9	.36	.14
7285.0	.00	100	1.7	1.7	2.74	0	.34	.14
7286.0	.04	86	5.8	5.8	2.61	0	.32	.14
7287.0	2.10	38	10.4	10.4	2.39	0	.24	.10
7288.0	1.79	41	10.3	10.3	2.56	0	.14	.04
7289.0	.00	100	2.6	2.6	2.74	0	.06	.00
7290.0	.03	89	5.5	5.5	2.69	0	.03	.00

SR16,T1904,1891,03/04/71

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NEXT JOB
$JOB,T=1904,3000,C=2931,
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Canada Oil and Gas Lands Administration

Administration du pétrole et du gaz des terres du Canada

				Well Status	
Nova Scotia	☐	West Coast	☐	Suspended	☒
Newfoundland	☐	Northern	☐	Completed	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	Abandoned	☐

APPLICATION TO ALTER CONDITION OF A WELL

This application form is to be submitted in triplicate to the District Conservation Engineer at least 45 days before commencement of operations.

Well Name: CPOG et al LaBiche F-08 Area: Northwest Territories

Coordinates: Lat: 60°37'25"N Long: 124°31'13"W

Operator: PanCanadian Petroleum Limited Contractor: Lee Tool Co., Halliburton Services

Drilling Rig or Unit: Depth: 1951 m tbg. plug; 2225 TD

Date ATDW Issued: 1970-01-22 Date of Last Operation 1971-03-19

TYPE OF OPERATION

To permanently abandon the well.

SUMMARY OF PROPOSED OPERATIONS

Part I - Fly in with helicopter to lease with wireline unit. Check tubing and annulus for pressure. Run in with gauge ring on wireline to tubing plug at 1951 m KB to ensure tubing is clear to circulate. Return to base.

Part II - Fly in cementing unit and personnel to location. Run in with wireline and perforate tubing from 1944 m KB to 1946 m KB. Circulate a 50 m 0:1:0 "G" cement plug from 1946 m KB to 1896 m KB. Run in with wireline and perforate tubing from 14 m KB to 15 m KB. Circulate 10 m 0:1:0 cement plug from 15 m KB to surface. Excavate 1.2 m below casing flange. Cut off surface casing, production casing and tubing 1 m below ground level. Weld a 500 mm x 300 mm x 5 mm thick steel plate on top of stub. Well name and co-ordinates to be bead welded on plate. Clear site of refuse. Erect sign 1.5 m above ground level. Return equipment to base.

Signed: H. Rath H. Rath Title: Manager - Drilling

Date: 88-05-31 Company: PanCanadian Petroleum Limited

APPROVAL

An approved copy of this notice should be posted at each wellsite

Signed: Conservation Engineer

Date: 88-06-03

ATDW No: 400 File:

Department of Energy, Mines and Resources / Ministère de l'Énergie, des Mines et des Ressources

Department of Indian Affairs and Northern Development / Ministère des Affaires indiennes et du Nord canadien

Canada

Canada Oil and Gas Lands Administration | Administration du pétrole et du gaz des terres du Canada

D.A. 400

				Well Status	
Nova Scotia	☐	West Coast	☐	Suspended	☐
Newfoundland	☐	Northern	☒	Completed	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	Abandoned	☒

WELL TERMINATION RECORD

This record is submitted in triplicate in compliance with Section 184 of the Canada Oil and Gas Drilling Regulations.

WELL DATA

Well Name: CPOG et al LaBiche F-08 **Area:** N.W.T.

Grid Area: 60-40-124-30 (NTS) **Field/Pool:** LaBiche

Permit or Lease No.: #409-68 **Final Coordinates: Lat.:** 60°37'25"N **Long:** 124°31'13"W.

Drilling Unit: Nabors 10 **Elevations-RT/KB:** 1302.1 m **SF/GL:** 1297.5 m

Spud Date: Feb. 25, 1970 **Rig Released:** March 1971 **Total Depth:** 2225.0 m

CASING AND CEMENTING

O.D.:	Weight:	Grade:	Depth Set:	Cement and Additives:
339.7 mm	81.1 kg/m	K-55	184.4 m	28 t 0:1:2
244.5 mm	59.5/53.6 kg/m	K-55	1441.7 m	26 t 1:1:2; 21.5 t 0:1:2
178 mm	38.7/34.2 kg/m	K-55	2225 m	13.6 t 1:1:2
73 mm	9.7 kg/m	K-55	1949.1 m	

PLUGGING PROGRAM

Approval of the following program was obtained by (person) Peter Shankel from (person) Maurice Thomas of the Canada Oil and Gas Lands Administration by means of telecopier on July 29, 1988

Type of Plug:	Interval:	Felt:	Cement and Additives:
Bridge plug	2163.9 m	(w/line)	
Bridge plug	2084.7 m	w/line	
Bridge plug	1990.2 m	w/line	
Packer plug	1949.1 m	w/line	
Cement	1949 m - 1887 m	1887 (w/line)	0:1:0 with 0.75% CFR2
Cement	0 m - 30 m	no	0:1:0 with 0.75% CFR2

Lost Circulation/Overpressure Zones:

Equipment left on Seafloor (Describe):

Provision for Re-entry (Describe and attach sketch):

Cores: Type: **Intervals:**

Other Downhole Completion/Suspension Equipment: Baker FB-1 packer landed at 1949.1 m with plug in place. Bridge plugs located at 1990.2 m, 2084.7 m and 2163.9 m (see attached).

CERTIFICATION

I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information

Signed: P. Eng. **Title:** Area Engineer

Name: Peter Shankel **Date:** 1988-09-26

Acknowledged by: Engineering Branch

Date: 88-10-13

File:

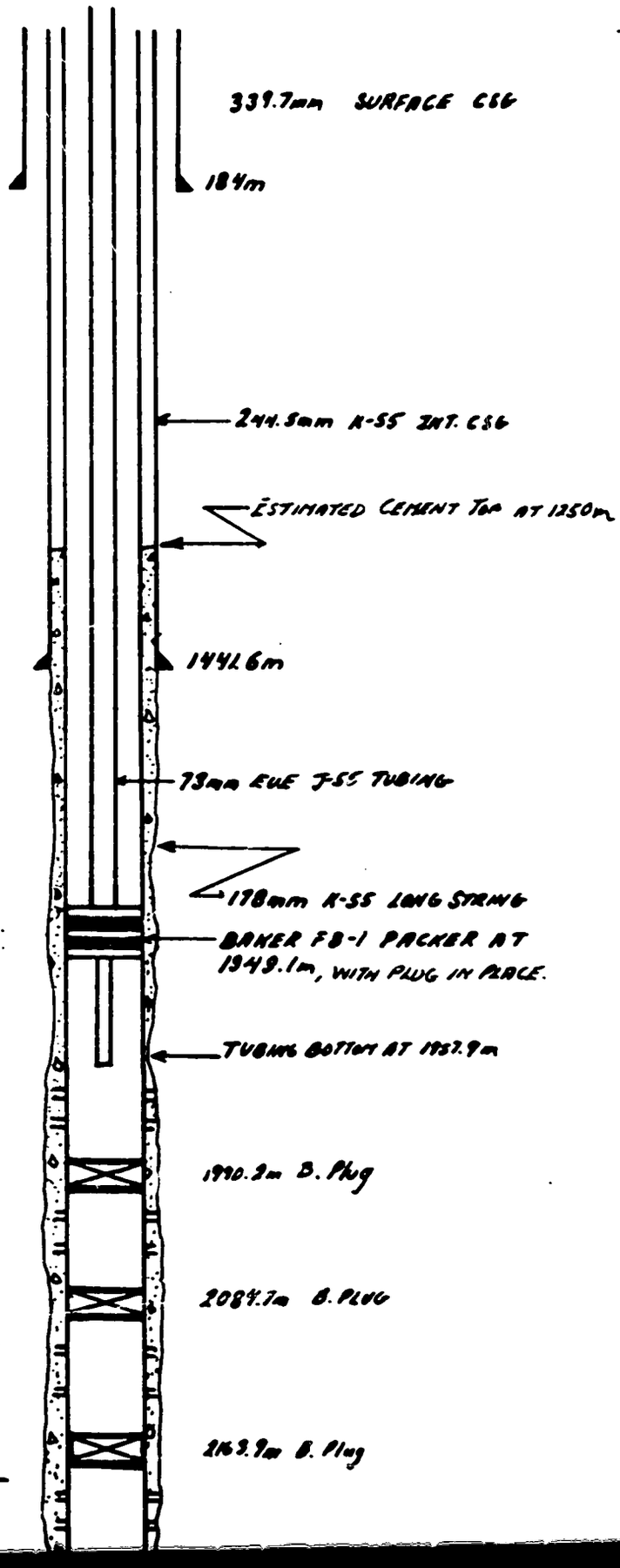
Department of Energy, Mines and Resources / Ministère de l'Énergie, des Mines et des Ressources

Department of Indian Affairs and Northern Development / Ministère des Affaires indiennes et du Nord canadien

Canada

ATTACHMENT NO. 1

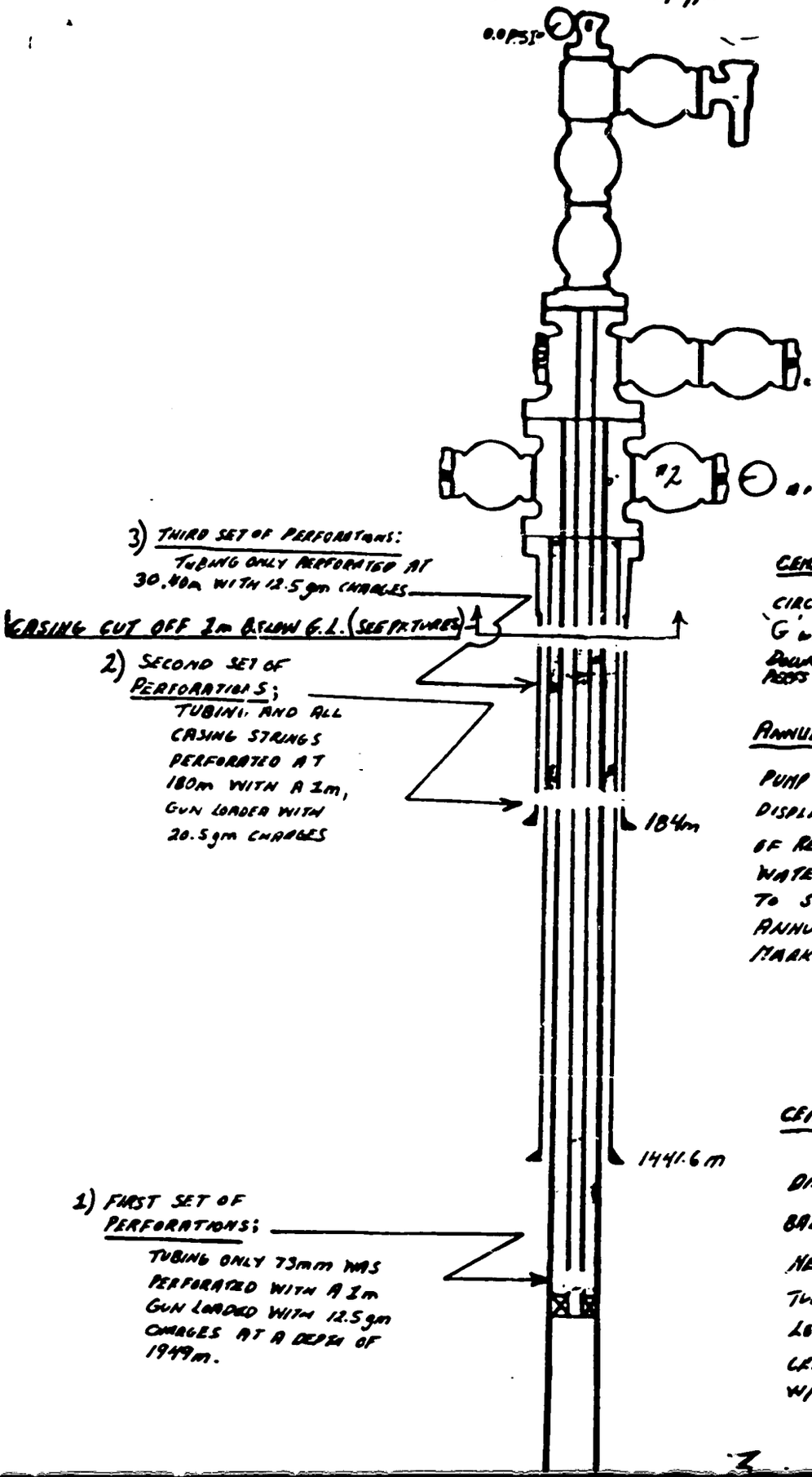
CPOG ET AL LA BICNE
BHA AS OF 7i/3/2



ATTACHMENT 1

CPOG et al LABACHE

BHA as of 88/9/2



CEMENT PLUG #2

CIRCULATE 7.8m³ of Neat G with .2% FRICTION REDUCER DOWN THE 73mm TUBING & THROUGH PERFS AT 30.4m. CEMENT TO SURFACE

ANNULAR CEMENT PLUG;

PUMP 2.8m³ of NEAT 'G' DISPLACED WITH 2.0m³ OF RETURNED MUD AND WATER. CEMENT RETURNS TO SURFACE THROUGH ANNULAR SURFACE VALVE MARKED #2

CEMENT PLUG #1;

DISPLACE 1.82 m³ BALANCED PLUG OF NEAT 'G' THROUGH TUBING PERFORATIONS LOCATED AT APPROX. 1949. CEMENT TOP TAGGED WITH W/LINE AT 1901 m G.L.