

GPD NOEL MILLS LAKE - P-52

Drilling Authority No. 309
Date Issued 27-2-68

WELL NAME CPD NOEL Mills Lake P-52

FIELD
LOCATION: Unit P Area:
Latitude 61-31-52 N 507 Section 52 Grid 61-40-116-30
Longitude 116-39-15 W 46.74
From Established Reference Marker

UMLR; 61.33299 N Lat - 116.66274 W Long
UWI 30CP526140116300

Rig Release Date 11/3/68
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
27-2-68	Application for a Drilling Authority.
May 14/68	Well Completion Data.
	Well History Report.
May 16/68	Application to Amend a Drilling Authority.
	Application to change a Well Name.
May 17/68	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale Small scale

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
March 1	0	248.82	Surface casing 75 sacks of construction cement + 2% CaCl ₂								
March 10	1425	1250	Plug #1 4 3/4 sacks no fee								
March 10	298	198	Plug #2 3 3/4 sacks + 2% CaCl ₂ . Felt at 180'								
March 10	0	5	Surface plug 5 sacks								
			Cut off casing 2' below ground level, welded on plate, erected marker.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	L.S.L. Mins.	F.S.L. Mins.	I.S.L.B.H.P.	F.S.I.B.H.P.	L.P.B.H.P.	F.P.B.H.P.	L.H.P.	F.H.P.	REMARKS
		No tests run.												

ANALYSIS				PRESENT STATUS OF WELL			
Lab. No.	Sample	From	To	Source	Remarks	Oil	(Interval)
						Gas	(Interval)
						Dry	X
						Susp.	

Company Great Plains Development Company
of Canada, Ltd.
Signed by *D. L. Gingerick* D. L. Gingerick
Title Production Superintendent
Date May 14, 1968.
Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.



File No. _____
Drilling Authority No. 309

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well GPD MOEL Mills Lake P-52
Location: Unit P Section 32 Grid 61° 40' 116° 30'
Latitude 61° 31' 45.57" N. Longitude 116° 39' 46.78" W.
From Established Reference Marker 637' S., 1132' W. of NE Corner Unit P Section 32
Universal Well Location Reference 61.52933° N. Lat., 116.66298° W. Long
Permit No. 4492 Lease No. _____

Northern Oil Explorers Ltd.
(Permitter, Licensee, Lessee)

Date of commencement of proposed program March 8, 1968

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at _____
Gas at _____
Water at _____
Total Depth 1425 Date of last operations March 10, 1968
Present condition of well _____

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Palled
1. <u>7"</u>	<u>20</u>	<u>256.74°</u>	<u>248.82</u>	<u>75 sacks + 2% CaCl₂</u>	
2. _____					
3. _____					
4. _____					
5. _____					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
<u>Plug 1</u>	<u>1425-1250</u>	<u>Precambrian</u>	<u>45 sks.</u>	<u>No seal</u>
<u>Plug 2</u>	<u>298-198</u>	<u>Hay River Shale</u>	<u>34 sks.</u>	<u>Felt at 180'</u>
<u>Plug 3</u>	<u>3' below ground level</u>	<u>Surface</u>	<u>5 sks.</u>	

The following logs have been run Induction Electrical, Borehole Compensated Sonic Log, Formation Density Log
Other operations proposed Nil

Operations to be carried out by Great Plains Contractor Licence No. A11155
Address 736 - 8th Avenue S.W., Calgary, Alberta Address 6820 - 103rd St., Edmonton, Alta.
Responsible Agent in field G. H. Hunter
Dated at Calgary this 14 Day of May 19 68
Signed by D. L. Gingerick Company Great Plains Development Company of Canada, Ltd.
Title Production Superintendent Operator's Exploratory Licence No. 1049

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Dated 17th May, 19 68

Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

File No.

Drilling Authority No. **309**



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend
Drilling Authority No. **309**, concerning

C/O VOEL MILLS LANE R-62
(Name and Number of Well)

The following amendments are required:

CHANGE OF LOCATION

FROM — Lat. **61° 31' 53.72" N.**

Long. **116° 39' 45.86" W.**

TO — Lat. **61° 31' 45.57" N.**

Long. **116° 39' 46.74" W.**

Reasons for the amendments:

Survey dated the 26th of January 1968 by Midwest Surveys Co. Ltd.

Dated at **Calgary**, this fourteenth day of **May**, 19**68**

Signed by *[Signature]*

Title **Production Superintendent**

Great Plains Development

Company **Company of Canada, Ltd.**

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

UNIVERSAL WELL LOCATION REFERENCE: Lat. **61.52933° N.**

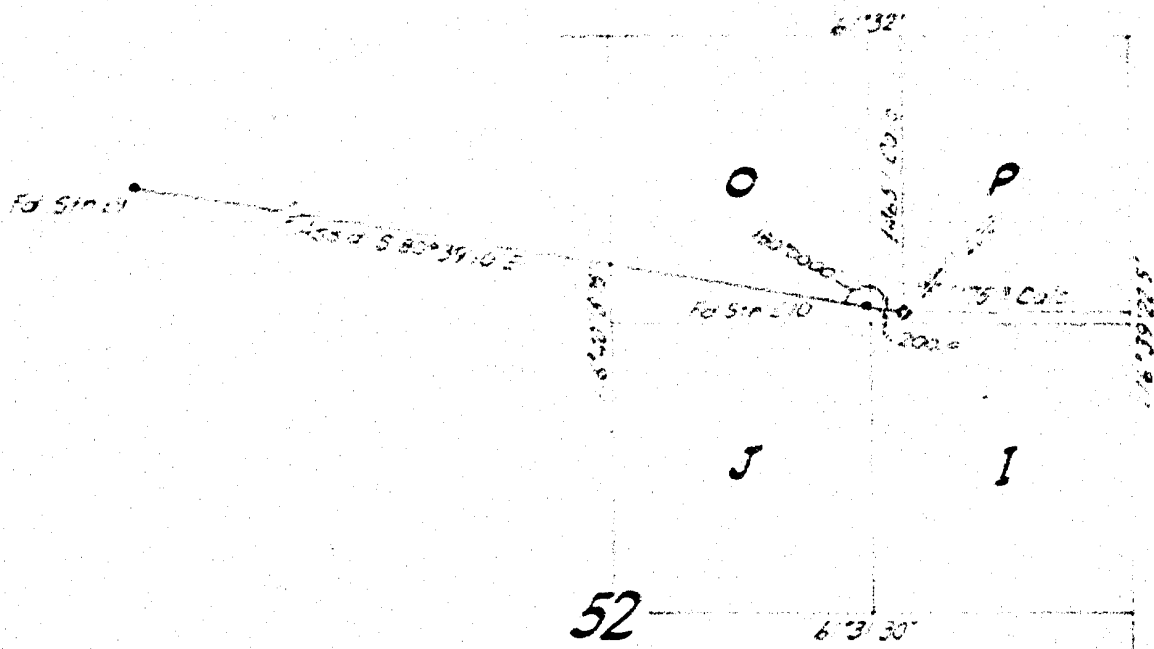
Long. **116.66298° W.**

Date **16th May**, 19**68**

[Signature]
Oil Conservation Engineer

Forms to be submitted to the Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

FINAL PLAN
GPD NOEL MILLS LAKE
P52 61-40,116-30
 Latitude 61°31'45".57 Longitude 116°39'46".74
 NORTHWEST TERRITORIES



Scale: 1" = 1000' for 1"

COORDINATE TABLE				
UTM Values		Scale Factor 0.9999		Ref. Mer 117°00'
Station	Bearing	Distance	North	East
ED	S 80°39'10"E	200.0	22,387,300.0	58,627.0
Well Loc			22,387,267.0	58,624.9

Survey completed on Jan 26, 1968
 Certified Correct.

[Signature]
 Alberta Land Surveyor

NOTE:

1. Distances are in feet and decimals and are check chained
2. Survey Traverse originated from baseline at Fort Providence.

ELEVATION: 729 Ground

DATUM: BM # 66-T-117
 Elev. = 642-724

**GREAT PLAINS DEVELOPMENT
 COMPANY OF CANADA, LTD.**

[Signature]
[Signature] P. Eng.

Prepared by:
MIDWEST SURVEYS CO. LTD.



C34-68

Drilling Authority No. 309

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well GPD NOEL Mills Lake P-52
Location: Unit P Section 52 Grid 61° 40', 116° 30'
Latitude 61° 31' 53.72" Longitude 116° 39' 45.86"
From Established Reference Marker 637' S., 1132' W. of NE corner Unit P, Section 52
Universal Well Location Reference 61.53157° N. Lat. 116.66274° W. Long.
Elevation: Ground 729 K.B. 737 feet above sea-level
Well is expected to produce from Lonely Bay formation at a depth
of about 850 feet. Expected total final depth 1400'
Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 4492 Lease No. Acreage 60948
Permittee, licensee, or lessee Northern Oil Explorers Ltd.
Exploratory Licence No. 1088
Surface owned by Crown or Crown
Petroleum and natural-gas rights owned by Northern Oil Explorers Ltd.
(If alienated submit name and address of owner and occupant.)

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 7"	20#	J-55	New	200'	75 sacks
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. Surface casing will control water or gas in the Glacial drift; hydrostatic pressure of the mud column and 6" x 900 Ser. BOP's to control all formations below surface casing.

Well will be drilled with Rotary Rig No. I by Baldwin & Knoll Limited
(Drilling Contractor or company)

Edmonton, Alberta

Responsible agent of applicant: Contractor's Business Licence No. A11155

At well G. M. Hunter At registered office 6820 - 103rd Street
Address 736 - 8th Avenue S.W. Address Edmonton, Alberta.

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary this 27th day of February 1968

Signed by M. M. Latta Company Great Plains Development Company of
Title Drilling Superintendent Operator's Licence No. 1049 Canada, Ltd.

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

Dated 27th February 1968

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

LAND 52-90-1 (3-67)

Unique Well Identifier: 300P526140116300

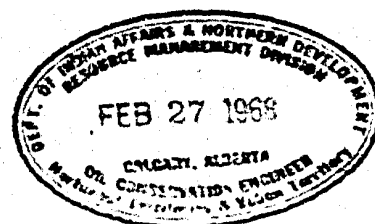
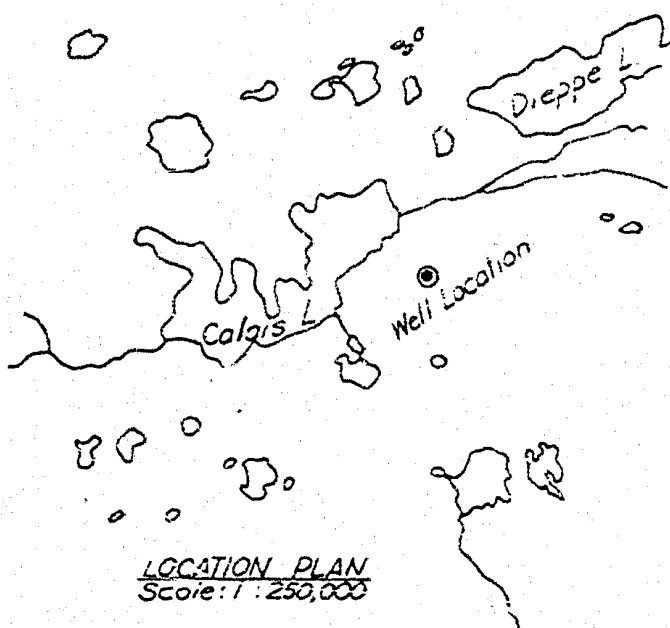
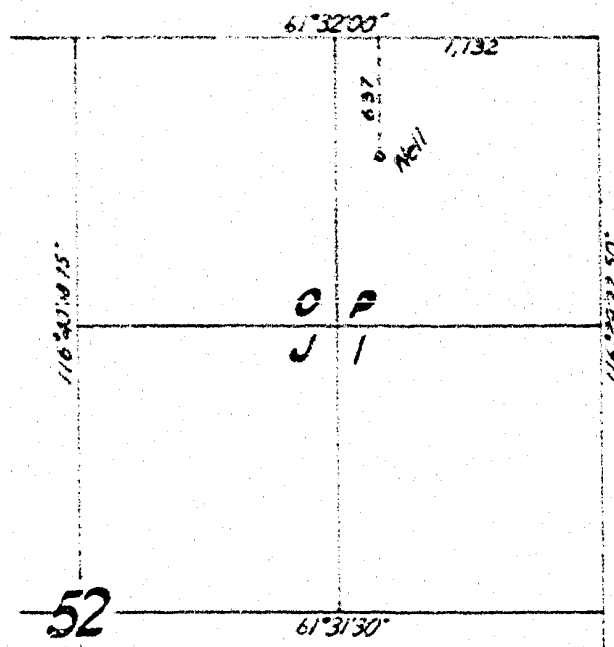
PRELIMINARY PLAN

GPD NOEL MILLS LAKE P-52

Unit P Section 52 Grid Area 61°40'116°30'

Latitude 61°31'53.72" Longitude 116°39'45.86"

NORTH WEST TERRITORIES



I certify that this plan is correct to the best of my knowledge and was completed on the 12th day of February, 1968.

Wm. Dabbs
Dominion and Alberta Land Surveyor

J. B. Bay Witness
MIDWEST SURVEYS CO. LTD.

**GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.**

on on L. L. L.
A. R. Jones P. Eng.

ELEVATION: 729 Ground

CO-ORDS: Well is located 637'S. } of N.E. Cor. Unit P
1,132'W. } Sec. 52

Scale: 1000' = 1"

Triangulation Station:

Well Location:

Survey Monuments found shown thus:

" " planted " " :

Portions referred to outlined:

Distances are in feet and decimals.



C-34C-68

DRILLING & ABANDONMENT REPORT

OF

GPD NOEL MILLS LAKE P-52

IN

UNIT P SECTION 52 GRID $61^{\circ} 40' 116^{\circ} 30'$

LATITUDE $61^{\circ} 31' 45.57''$

LONGITUDE $116^{\circ} 39' 46.74''$

DRILLING & ABANDONMENT REPORT

OF

GPD NOEL MILLS LAKE P-52

IN

UNIT F SECTION 52 GRID 61° 40' 116° 30'

LATITUDE 61° 31' 45.57" LONGITUDE 115° 39' 48.74"



Compiled By: George Betts
March, 1968

Signed By: *mm Lett*
Drilling Superintendent

Dated: *May 27 1968*

SECTION I - SUMMARY OF WELL DATA

(a) Well Name and Number

GPD NOEL Mills Lake P-52

(b) Permittee, Licencee or Lessee

Northern Oil Explorers Ltd.

(c) Name of Operator

Great Plains Development Company of Canada, Ltd.,
736 Eighth Avenue S.W., Calgary 2, Alberta.

(d) Location

Unit P Section 52 Grid 61° 40', 116° 30'
Latitude 61° 31' 45.57" Longitude 116° 39' 46.74"

(e) Co-ordinates

B.M. #66-T-117
Universal Well Location Reference: 61.5233° N. Lat.
116.66278° W. Long.

Unique Well Identifier - 300P526140116300

(f) Permit No.

4492

(g) Drilling Contractor

Baldwin & Knoll Limited Rig No. 1 - Rotary type

(h) Drilling Authority

Number 309 dated February 27, 1968

(i) Classification

Wildcat

(j) Elevations

Ground 729' K.G. 737'

(k) Spudded

February 29, 1968

(l) Completed Drilling

March 8, 1968

(m) Total Depth

1425'

(n) Well Status

Dry & abandoned

(o) Rig Released

March 10, 1968

(p) Hole Size

Surface 9 7/8" Main Hole 6 1/4"
0' - 250' 250' - TD

(q) Casing - Surface

Ran and cemented 256.74' of 7", 20#, J-55 new surface casing.
Landed at 248.82' K.B. Cemented with 75 sacks of construction
cement plus 2% CaCl₂. Plug down at 3:00 P.M., March 1, 1968
with 1000 psi.

GEOLOGY

SECTION II - GEOLOGICAL SUMMARY

(a) Formation Tops

Formation Markers	<u>Sample Picks</u>		<u>Log Picks</u>	
	<u>Elev.</u>	<u>Depth</u>	<u>Elev.</u>	<u>Depth</u>
Hay River	+ 196	540	+ 182	555
Limestone	+ 67	670	+ 77	660
Marker Bed Black Sh.	- 68	805	- 75	812
Lonely Bay	- 75	812	- 87	824
Chinchaga	- 273	1010	- 286	1023
Red Beds	- 553	1260	- 531	1268
Granite	- 679	1416	- 669	1406

(b) Cored Intervals

No cores were cut.

(c) Sample Description

0- 30	<u>Gravel</u> , fine and coarse, with interbedded sand and boulders.
30- 190	<u>Pea Gravel</u> , pebble beds and sand interbeds.
190- 250	Samples 100% mud with pebbles and trace black shale.
250- 270	Minor black brittle <u>shale</u> , calcareous, micromicaceous, samples contaminated with gravel.
270- 353	<u>Gravel</u> , fine, very fast drilling, 10 secs./ft., trace black shale. Drilling break to 2-3 mins./ft. at 353.
353- 400	Traces <u>Limestone</u> , grey and buff, no shows, + 90% gravel.
400- 450	As above
450- 540	Drilling 5-10 secs./ft., samples are light grey mud.
540- 660	<u>Shale</u> , medium grey, calcareous, traces grey green shale and light grey calcareous argillite.
660- 670	<u>Shale</u> , as above, minor grey argillaceous limestone.
670- 700	<u>Limestone</u> , grey, argillaceous, fine crystalline, tight, fair oil cut.
700- 805	<u>Limestone</u> , as above, non-fossiliferous. More argillaceous towards base.
805- 812	<u>Shale</u> , black, fetid, non-calcareous, trace fossil fragments, good cut.
812- 840	<u>Limestone</u> , grey to light grey and buff, tight, compact to fine crystalline, trace fine fragmental. Non-porous, fair cut.
840- 940	<u>Limestone</u> , brown and buff, fine fragmental, trace bitumen non-porous, fair cut.
940-1010	<u>Dolomite</u> , brown, dense and fine to medium crystalline, trace fossil fragments, faint show, trace bitumen Ostracods.
1010-1020	<u>Dolomite</u> , as above with trace Anhydrite.
1020-1130	Interbedded <u>dolomite</u> and <u>anhydrite</u> .
1130-1260	<u>Anhydrite</u> with minor dolomite, trace red shale at base.
1260-1310	Red <u>Shale</u> , reddish brown siliceous shale, micromicaceous and anhydrite up to 50%.
1310-1333	Fast drilling, salt?
1333-1370	Red <u>shale</u> and <u>anhydrite</u> .
1370-1380	Red <u>shale</u> and <u>dolomite</u> , 50/50. Dolomite, dark brown, dense, shows of bitumen good, mostly tight, with lenses fine porosity a trace.
1380-1405	<u>Dolomite</u> , as above, residual bitumen a trace, tight

(c) Sample Description (Continued)

1380-1405	section with minor shows porous lenses. Traces red
Continued	shale, 12 min./ft.
1405-1416	<u>Anhydrite.</u>
1416	Top Granite, grey quartz and ferromagnesian.
1416-1425	Granite.

GEOLOGICAL REPORT ON DRILLING PROJECT

Introduction

A drilling project of three wells some 40 miles north of Ft. Providence was carried out by Great Plains Development between January 22nd and March 8 of this year. Although these wells failed to find hydrocarbons, some interesting geologic conditions were encountered.

Surface Gravels

In each of these wells some difficulty was experienced with boulders in the upper section of a thick gravel unit. This section, varying in thickness from 130 feet to over 400 feet, is a glacial lake deposit of interbedded boulder gravel, pea gravels, sands, with interbedded clays and shales. The cap rock of numerous ridges in the area is composed of several feet of massive boulders measuring up to 6 feet in diameter. Scattered boulders were encountered in the underlying sand and gravel beds down to 140 feet, then thick beds of sand and fine gravels with clays and shale were drilled throughout the remainder of the section.

Hay River Shales

This unit varies in thickness from 130 feet in the P52 well to 600 feet at L41. It consists of a fairly homogeneous section of grey calcareous and micromicaceous shale with variable thicknesses of argillaceous limestone in all three wells. Traces of bitumen were noted throughout the Hay River section. Glacial erosion has encised channels and embayments into this shale unit which accounts for the varying thickness of overlying gravels in the area.

Limestone Section

A section of grey and dark grey argillaceous limestone underlies the Hay River in the three wells drilled. It varies from 100 to 140 feet in thickness, is non-porous yet fair shows of petroleum occur.

Marker Bed

This unit of black fetid non-calcareous shale overlies the Lonely Bay. A break to very fast drilling occurs at this point and the shales are also highly fossiliferous in B41. Good cuts for petroleum, and good fluorescence were obtained in this section.

Lonely Bay

The Lonely Bay in the L41 and B41 wells is predominantly an argillaceous, non-porous section of grey-buff limestone. Only faint cuts were obtained and fossil fragments are rare. This description applies also to the upper 8 feet in P52. The lower 120 feet of Lonely Bay section in this latter well is a massive, non-porous, finely fragmental limestone. This section of brown and buff limestone gave fair cuts, and scattered fossil fragments were noted.

CASING and TUBULAR REPORT

RUNNING AND CEMENTING

Surface Casing
Intermediate Casing O.D. 7"
Production Casing
Liner

- GENERAL

Well GPD NOEL Mills Lake P-52 Location Unit P Section 52 Grid 61° 40' Date March 1, 1968
116° 30' Lat. 61° 31' 45.57", Long. 116° 39' 46.74"
K.B. Elevation 737 K.B. Csg. Range 8.50 Total Depth (Driller) 248.82

Hole Size	9 7/8			Casing in Hole	248		
Depth	250			Depth Set	248		

Mud: Type Gel Wt. 9 Visc. 80 W.L. 10

B.O.P.'s -

RUNNING

Power Tongs - Torque: Max. - Nom. - Min. -

Time Pipe Started 12 Noon Time on Bottom 1:30 Time Circ. 1 hour

Fill-up Points - Btm. by Casing 248 Ft. up from K.B. 3 ft.

Remarks -

CEMENTING

Cement Co. Baldwin & Knoll Ltd. Operator Baldwin & Knoll (Ed) Time on Location -

Types & Quantities of Cement 75 sacks of construction cement plus 2% CaCl₂.

Water ahead 1 Bbls. Mix Times: Start 2:30 Finish 3:00 Slurry Wt. 15.5

Calc. Disp. 27 % Est. Disp. time 10 Mins. Start 2:50 Finish 3:00

Max. Pumping Press. 100 Bump. Press. 1000 Bumped by Truck No. times bump. 1

Cement Returns: Yes/~~No~~ Remarks Good returns.

LANDING

Time Landed 3:00 P.M. Date March 1 Init. Wt. of Cem. String (Ls. Blks.) -

Wt. Landed in Slips - Make of Bowl - Nom. Size - Series -

Slip and Seal Assembly - Remarks -

BIT

BIT RECORD

Wd CPD WOEL Mills Lake P-52

Field Mills Lake N.W.T.

[illegible]

DAILY MUD RECORD

DRILLING WITH RECORD

WELL GPD NOEL Mills Lake P-52 AREA Mills Lake

MUD COMPANY Mazcobar Mud of Canada SERVICE ENGINEER _____

Date	Depth B.C. NM	Fath- om	Additives									
			A	B	C	D	E	F	G	H	I	J
March 1	255		200	500	500	200	50					
March 2	485						50					
March 3	749			100	50	25	25					
March 4	869											
March 5	1008											
March 6	1193				50	100						
March 7	1370		100		200	50	50	200				
March 8	1425		200				25					
SUB-TOTAL												
TOTAL			500	600	800	375	200	200				

A	Gel	D	Caustic	G		J	
B	Plaster	E	CMC	H			
C	Peltex	F	Salt gel	I			

DAILY DRILLING RECORD

DRILLING HISTORY

Date	Depth 800 AM	Hours Drilled	Mud				Surveys		Remarks
			Wt.	Visc.	W.L.	pH	Depth	Dev.	
Feb. 29									Spudded well on Feb. 29 and drilled 9 7/8" hole.
March 1	213	15 3/4	9.4	50			127'	1/4°	Drilled 9 7/8" hole to a T.D. of 255'. Circulated hole clean. Pulled out. Ran & cemented 256.74' of 7", 20#, J-55 new casing. Landed at 248.82' K.B. Cemented with 75 sacks of construction cement + 2% CaCl ₂ .
March 2	250								W.O.C. Pressured up blind rams to 1000 psi. Drilled out F.C., G.S. and cement. Drilled 6 1/4" hole.
March 3	617	14	9	49			540'	1/2°	Drilled 6 1/4" hole.
March 4	787	14	9.6	64	9.6	8.0	749'	1°	Drilled 6 1/4" hole.
March 5	936	17 1/2	9.6	60	9.6	8			Drilled 6 1/4" hole.
March 6	1082	21	10	60	10	8	1135'	3/4°	Drilled 6 1/4" hole.
March 7	1248	20	11	75	15	10			Drilled 6 1/4" hole.
March 8	1410	10 1/4	10.4	52	17	11			Drilled to a T.D. of 1425. Circulated hole clean. Pulled out. Rigged up logger.
March 9									Ran a Formation Density log 1019'-250', Induction Electrical Log 1422'-249' and a Borehole Compensated Sonic Log 1420'-249'.

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MISCELLANEOUS

PLUG-BACK AND ABANDONMENT REPORT

Well GPD NOEL Mills Lake P52Location N.W.T.

Hole Size	6 1/4"
Depth	1425'

K.B. Elevation 737F.T.D. 1425

Fluid in Hole _____

Casing in Hole	Size	Set At	Top of Cement
Surface Casing	7"	248'	180
Prod. String			

Plug Back String _____

Service Company _____

Cons. Bd. Approval _____

Cons. Bd. Witness _____

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
Date <u>March 9</u>					
Interval - Top	1250	198			
Bottom	1425	298			
Felt Plug Depth		180			
Formation - Name	Precambrian				
Depth	1425				
Caliper Hole Size (Avg.)					
Type of Mud					
No. of Sects	48	34			
Additives		2% CaCl ₂			
Bbls. of Water Ahead	3				
Displacement - Bbls. Water					
Bbls. Mud					
Slurry Weight					
Mixing Times - Start	9:45 P.M.	10:45			
Finish	10:00 P.M.	11:00			
Displacing Times - Start	10:00	11:00			
Finish	10:15	11:15			
Felt Plug Time		7:15 A.M.			

Surf. Csg. Cut 2 Ft. Below Grd. Surf. Plug 5 Sects. Plate Welded Yes/No

Casing Salvage: Shot off at _____ No. of Jts. Recovered _____

Remarks: _____

Operator's Representative _____

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.
736 - 8th Avenue S. W. , Calgary, Alberta - Phone 264-0660

DRILLING AND GEOLOGICAL PROGRAM
PART "A"
INSTRUCTIONS TO THE CONTRACTOR

GPD NOEL MILLS LAKE P-52 Lat. 61° 31' 50" N.
Long. 116° 37' 30" W.

Location: Lsd. _____, Sec. _____, Twp. _____, Rge. _____, W. _____ M.

Elevations: Ground - 729 Surv.
K.B. - 737 Est.

- Surface Hole: (a) Drill 9-7/8" surface hole to 150 ' minimum.
(b) Take Totco readings at 100' intervals to 150 '
(Maximum deviations 1°).
(c) Round trip prior to running casing to ensure the hole
is clean.
(d) Double tally drill pipe on last trip prior to running
casing.
(e) Measure and record distance from K.B. to Ground and K.B. to
casing bowl flange and report with surface casing details.

Surface Casing: To be conducted by Contractor.

- (a) Run and cement 7 ", 20 #, J-55, Casing at 150 '
minimum, using 60 sacks cement plus 2% CaCl₂.
Casing string to be as follows: guide shoe, one joint of
casing, float collar and balance of casing to 150 '.
One centralizer to be placed in the middle of joints
1, # _____ and # 3 and a scratcher five feet
from each end of the same joints. Weld guide shoe, float
collar and two joints of casing. Cement returns to surface
must be obtained. Casing must be set so that the casing
bowl flange is at ground level or above.
(b) Land casing after 12 hours, make up bowl and blowout
preventors.

Samples: Conservation Board - 10' samples Surface to T.D.
Great Plains - 10' samples " " "

Mud Control:

<u>Depth</u>	<u>Viscosity (Sec./Qt.)</u>	<u>Water Loss (cc/30 min.)</u>	<u>Remarks</u>
Surface Hole 0 - 150	Sufficient to clean hole		Spud in mud. After drilling out guide shoe and jetting cement-cut mud, and S.A.P.P. or Bicarbonate of Soda to treat out residual cement.
Drill out surface casing shoe with Water			
150 - 1332	40 - 60	7 - 10	
			Dispersed gyp mud

General Mud Requirements:

- (a) Weight approximately 9.5 /U.S. gallon.
- (b) A complete record of all mud and additives used must be correctly logged in the daily reports by "the contractor."
- (c) Check all mud properties at least twice per tour and note results in tour report.
- (d) Lost circulation - circulation losses may occur during the surface hole and _____

Main Hole Drilling:

- (a) Drill ahead with 6-1/4" bit and follow sample collection.
- (b) Tallies - Drillpipe is to be tallied out every 1000' and prior to:
 - (1) Coring
 - (2) Drillstem testing
 - (3) Logging
 - (4) Running casing

If pipe measurement varies more than three feet from the recorded tally, it must be remeasured and the tally adjusted if necessary. A record of adjustment is to be made in the daily report.

- (c) Hole conditions - Great Plains' Drilling Department is to be notified immediately if poor hole conditions develop, if drillpipe is stuck, or if a fishing job develops.

Abnormal Formation Pressures:

DRILLING AND GEOLOGICAL PROGRAM
PART "B"
INSTRUCTIONS TO GREAT PLAINS PERSONNEL

Samples: Make 1 cuts of samples at wellsite.

Zones of Interest	Approximate Depth	Evaluation Procedure
Lonely Bay	812	Reef build up should be cored and tested
Chinchaga	1000	Dolomite beds may be porous and hydro-carbon-bearing. Test if warranted.

Coring
Notes:

- (a) Jars are to be run during coring operations.
- (b) At least two stands of collars are to be left off the coring string.

Drillstem
Tests:

To be conducted in the following manner:

- I.S.I. 60 mins.
- V.O. As required
- F.S.I. 60 minute minimum, or equal to V.O. time.

NOTE:

- (a) Jars, safety joint and pump out sub are to be run on all tests.
- (b) No more than one-half the number of collars in the drilling string are to be run, with a maximum of three stands of collars.
- (c) Gas samples are to be analysed for helium as well as subjected to the conventional analyses. One gas sample per test is to be collected. At least one quart of water should be collected for routine water analysis, and a full sample can of water from each test should be put in small cans supplied and brought to the Production Department of Great Plains Development Company of Canada, Ltd., 6th Floor, Fina Building, 736 - 8th Avenue S.W., Calgary, Alberta.
Attention of: Mr. George Betts

Logging:

See attached or below.

Log Type	Schlumberger	Scale	Interval
Induction Electric Log		2" = 100'	T.D. - Base of surface casing
		5" = 100'	T.D. - Base of surface casing.
B.H.C. Sonic - Gamma Ray Log w/ caliper		2" = 100'	As Above
		5" = 100'	
Formation Density Log		2" = 100'	As Above
		5" = 100'	

Production
Casing:

To be determined.

Cementing
Operations:

To be determined. State clearly in drilling reports cement mixed and Admix dry volumes and calculate slurry volumes pumped.

Service
Companies:

Cementing	Contractor
Testing	Johnston Testers Ltd.
Diamond Coring	Johnston Testers Ltd.
Mud	Magcobar Mud of Canada
Logging	Schlumberger Canada Ltd.

Sample

Log Time:

Samples are to be lagged as directed.

Telephone
Numbers:

Office	-	264-0660
G. M. Hunter	-	255-7312
N. M. Lehto	-	289-2029 - 289 - 4350
L. L. Samoil	-	289-3980
D. L. Gingerick	-	249-4700

Data

Requirements:

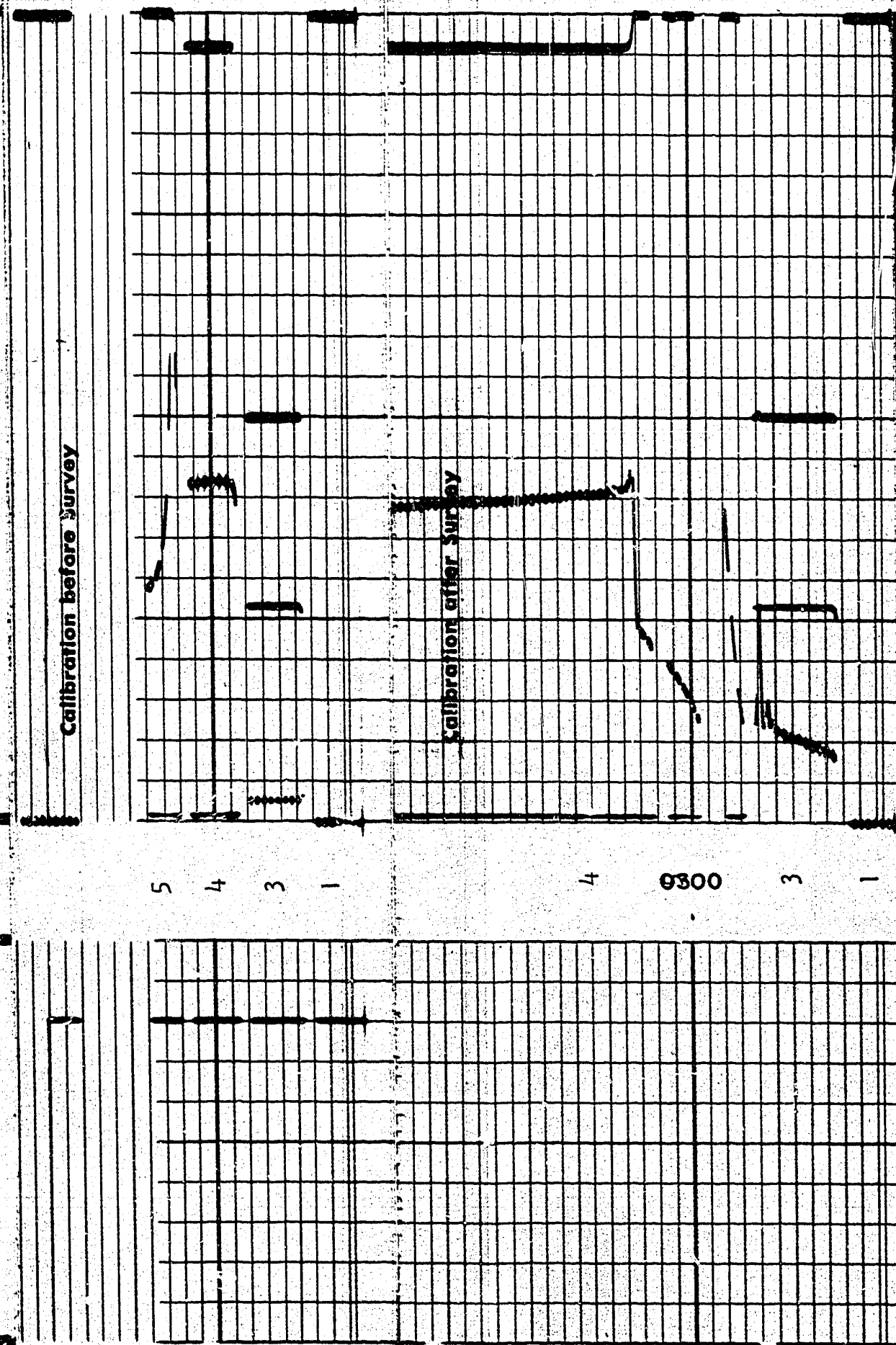
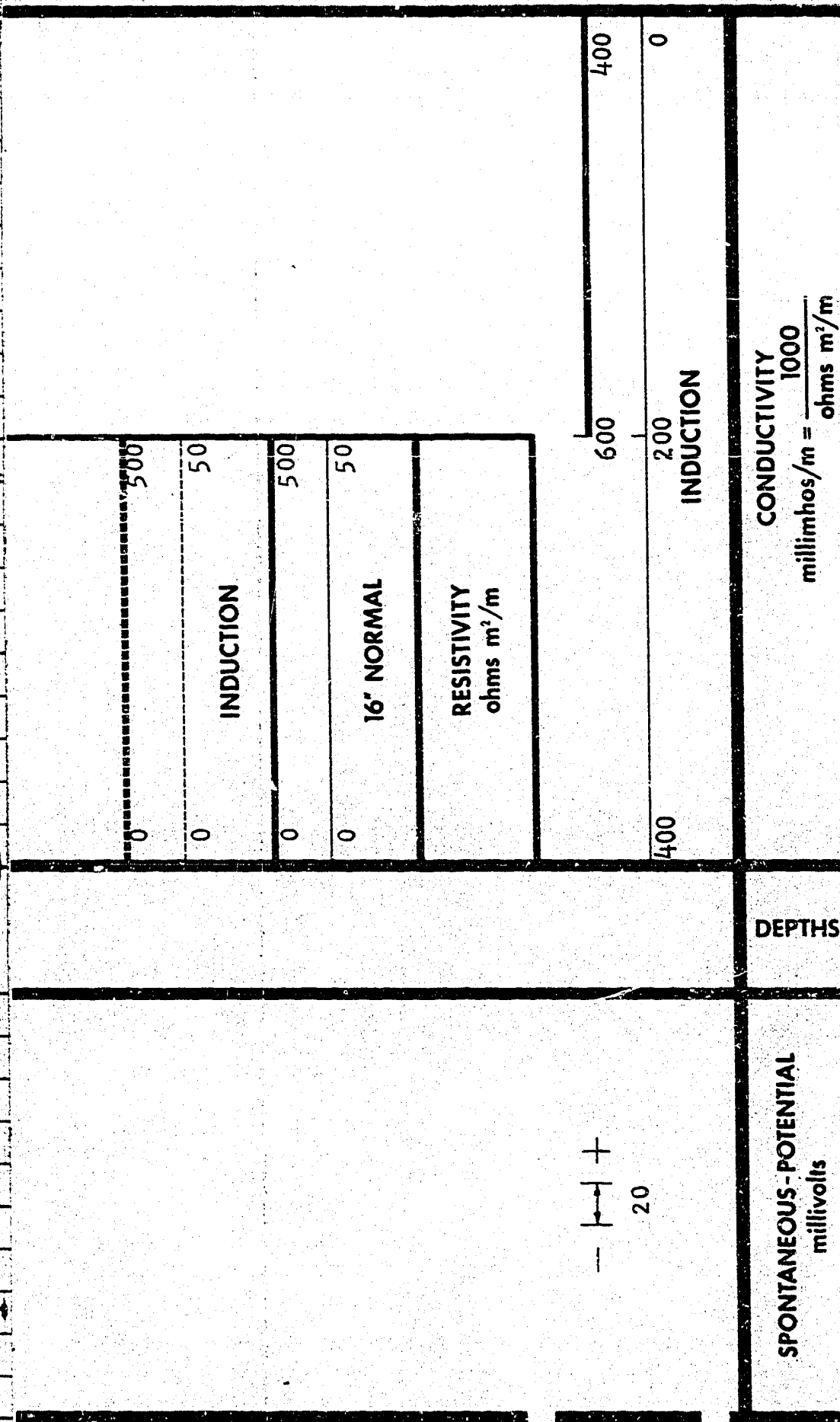
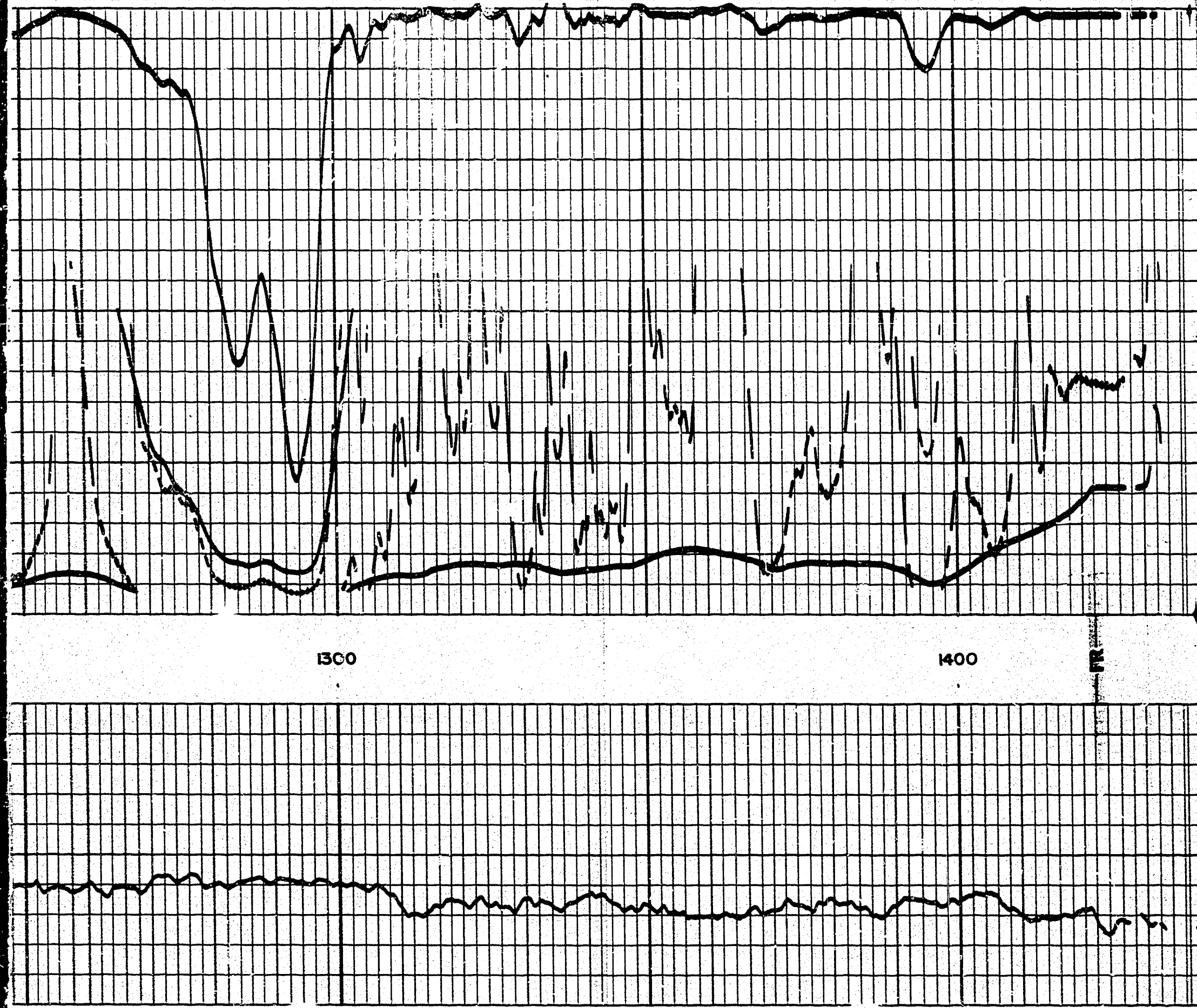
Company	Samples	Logs		Analyses		DST Charts	Completion Report
		Field	Final	Core	Fluid		
Great Plains	Vials	3	3	2	2	4	2
Conservation Board	N Yes	-	3	2	1	1	-
Total		3	6	4	3	5	2

GEOLOGICAL PROGNOSIS FOR GPD NOEL MILLS LAKE P-52

Latitude 61° 31' 50" N.
Longitude 116° 39' 30" W.

Ground Elevation 729
K.B. Elevation 737

<u>Formation Top or Marker</u>	<u>Elevation</u>	<u>Depth</u>
Lonely Bay Limestone	-75	812
Chinchaga	-265	1002
Precambrian	-595	1332



SCHLUMBERGER

COMPANY GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

WELL GPD NOEL MILLS LAKE P-52 61-40-116-30

FIELD WILDCAT PROVINCE NORTHWEST TERRITORIES

OPERATOR G.P.D.		LOCATION W		SEC. 50	TWP. 116	RGE. 39	W. 30	WELL NAME NOEL MILLS LAKE		No. P52 #3	PROVINCE N.W.T.			
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG No. 1	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		NO. MANUFACTURER		TYPE		STROKE LENGTH				
						1.								
						2.								
						3.								

TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		STANDS DP		FT. RUN NO.																								TIME	
REAMING		SNGLS. DP		FT. SIZE																								WEIGHT	
CIRCULATING		D.C. ID		MFG.																								VISC	
TRIPS		RMR BODY OD		FT. TYPE																								W.L.C.C.	
DEVIATION SURVEY		STB BODY OD		FT. NOZ. NO.																								FLTR. CK.	
TEST B.O.P		SUBS OD		FT. SER. NO.																								PH	
CUT OFF DRILL LINE		BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
REPAIR RIG				FT. CUMULATIVE HOURS RUN																									
CORING		KELLY DOWN		FT. COND. OF BIT																									
WIRE LINE LOGGING		TOTAL		FT. REAMER CUTTER NO.																									
OTHER		WT. OF STRING		LBS. TYPE																									
FISHING		DRILLER																											
COMPLETING (A) PERFORATING																													
(B) RUNNING TUBING																													
(C) SWABBING																													
(D) TESTING																													
(E) ACIDIZING																													
(F) ADDITIONAL																													
TOTALS																													
TIME SUMMARY (OFFICE USE ONLY)																													
CONTRACTOR'S TIME HRS:																													
OPERATOR'S TIME:																													
HRS. W/D.P:																													
HRS WO/D.P:																													
HRS STANDBY																													
WIRE LINE RECORD																													
REEL NO																													
NO OF LINES SIZE																													
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON MI. OF TRIPS SINCE LAST CUT																													
CUMULATIVE TON MI. OF TRIPS																													
NO. OF DAYS FROM SPUD																													
CUMULATIVE ROTATING HRS.																													

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
STANDS DP		FT. RUN NO.																										TIME	
SNGLS. DP		FT. SIZE																										WEIGHT	
D.C. ID		MFG.																										VISC	
RMR BODY OD		FT. TYPE																										W.L.C.C.	
STB BODY OD		FT. NOZ. NO.																										FLTR. CK.	
SUBS OD		FT. SER. NO.																										PH	
BIT OR C.B.		FT. DEPTH OUT																										SD. CONT.	
		FT. CUMULATIVE HOURS RUN																											
KELLY DOWN		FT. COND. OF BIT																											
TOTAL		FT. REAMER CUTTER NO.																											
WT. OF STRING		LBS. TYPE																											
DRILLER																													

8:00 CAMP RELEASED

WORKING RIG FROM KESE TO ENTERPRISE Y EQUIP

WEEDER MEGA TRUCKING

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
STANDS DP		FT. RUN NO.																										TIME	
SNGLS. DP		FT. SIZE																										WEIGHT	
D.C. ID		MFG.																										VISC	
RMR BODY OD		FT. TYPE																										W.L.C.C.	
STB BODY OD		FT. NOZ. NO.																										FLTR. CK.	
SUBS OD		FT. SER. NO.																										PH	
BIT OR C.B.		FT. DEPTH OUT																										SD. CONT.	
		FT. CUMULATIVE HOURS RUN																											
KELLY DOWN		FT. COND. OF BIT																											
TOTAL		FT. REAMER CUTTER NO.																											
WT. OF STRING		LBS. TYPE																											
DRILLER																													

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
STANDS DP		FT. RUN NO.																										TIME	
SNGLS. DP		FT. SIZE																										WEIGHT	
D.C. ID		MFG.																										VISC	
RMR BODY OD		FT. TYPE																										W.L.C.C.	
STB BODY OD		FT. NOZ. NO.																										FLTR. CK.	
SUBS OD		FT. SER. NO.																										PH	
BIT OR C.B.		FT. DEPTH OUT																										SD. CONT.	
		FT. CUMULATIVE HOURS RUN																											
KELLY DOWN		FT. COND. OF BIT																											
TOTAL		FT. REAMER CUTTER NO.																											
WT. OF STRING		LBS. TYPE																											
DRILLER																													

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
STANDS DP		FT. RUN NO.																										TIME	
SNGLS. DP		FT. SIZE																										WEIGHT	
D.C. ID		MFG.																										VISC	
RMR BODY OD		FT. TYPE																										W.L.C.C.	
STB BODY OD		FT. NOZ. NO.																										FLTR. CK.	
SUBS OD		FT. SER. NO.																										PH	
BIT OR C.B.		FT. DEPTH OUT																										SD. CONT.	
		FT. CUMULATIVE HOURS RUN																											
KELLY DOWN		FT. COND. OF BIT																											
TOTAL		FT. REAMER CUTTER NO.																											
WT. OF STRING		LBS. TYPE																											
DRILLER																													

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD			
STANDS DP		FT. RUN NO.																										TIME	
SNGLS. DP		FT. SIZE																										WEIGHT	
D.C. ID		MFG.																										VISC	
RMR BODY OD		FT. TYPE																										W.L.C.C.	
STB BODY OD		FT. NOZ. NO.																										FLTR. CK.	
SUBS OD																													

OPERATOR G.P.D.		LOCATION 600 50 1160 39 30		LSD. SEC. TWP. RGE. W.		WELL NAME NOEL MILLS HALL		No. P52 # 3		PROVINCE M.V.T.																					
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG No. 1		DRILL PIPE STRING NO. SIZE		TOOL JOINT TYPE THD.		PUMPS		CASING & LINER RECORD		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER													
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER St. Mary's		NO. 1. 2. 3.		MANUFACTURER		TYPE		STROKE LENGTH		SIZE		WT. & GR.		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD							
TIME DISTRIBUTION—HOURS		MORN DAY EVE		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL				STANDS DP		FT. RUN NO.																									
REAMING				SNGLS. DP		FT. SIZE																									
CIRCULATING				D.C. ID		FT. MFG.																									
TRIPS				RMR BODY OD		FT. TYPE																									
DEVIATION SURVEY				STB BODY OD		FT. NOZ. NO.																									
TEST S.O.P				SUBS OD		FT. SER. NO.																									
CUT OFF DRILL LINE				BIT OR C.B.		FT. DEPTH OUT																									
REPAIR RIG						FT. CUMULATIVE HOURS RUN																									
CORING				KELLY DOWN		FT. COND. OF BIT																									
WIRE LINE LOGGING				TOTAL		FT. REAMER CUTTER NO.																									
OTHER				WT. OF STRING		LBS. TYPE																									
FISHING				DRILLER																											
COMPLETING (A) PERFORATING				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(B) RUNNING TUBING				STANDS DP		FT. RUN NO.																									
(C) SWABBING				SNGLS. DP		FT. SIZE																									
(D) TESTING				D.C. ID		FT. MFG.																									
(E) ACIDIZING				RMR BODY OD		FT. TYPE																									
(F) ADDITIONAL				STB BODY OD		FT. NOZ. NO.																									
TOTALS				SUBS OD		FT. SER. NO.																									
TIME SUMMARY (OFFICE USE ONLY)				BIT OR C.B.		FT. DEPTH OUT																									
CONTRACTOR'S TIME HRS:						FT. CUMULATIVE HOURS RUN																									
OPERATOR'S TIME:				KELLY DOWN		FT. COND. OF BIT																									
HRS. W/D.P:				TOTAL		FT. REAMER CUTTER NO.																									
HRS. WO/D.P:				WT. OF STRING		LBS. TYPE																									
HRS. STANDBY				DRILLER																											
WIRE LINE RECORD				NO. DRILLING ASSEMBLY		BIT RECORD																									

OPERATOR G.P.P.		LOCATION 60° 50		SEC. 116°		TWP. 39		RGE. 3		W. 3		WELL NAME MOEL MILLS L&K		No. 10		PROVINCE N.W.T.															
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG No. 1		DRILL PIPE STRING NO. SIZE		TOOL JOINT		OD		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER A. G. G. G.		1. G.P.		2.		3.		TYPE		STROKE LENGTH																			
TIME DISTRIBUTION—HOURS		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		STANDS DP		FT.		RUN NO.																								TIME	
REAMING		SNGLS. DP		FT.		SIZE																								WEIGHT	
CIRCULATING		D.C. ID				MFG.																								VISC	
TRIPS		OD		FT.		TYPE																								W.L.C.C.	
DEVIATION SURVEY		RMR BODY OD		FT.		NOZ. NO.																								FLTR. CK.	
TEST B.O.P.		STB BODY OD		FT.		SIZE																								PH	
CUT OFF DRILL LINE		SUBS OD		FT.		SER. NO.																								SD. CONT.	
REPAIR RIG		BIT OR C.B.		FT.		DEPTH OUT																									
CORING				FT.		CUMULATIVE HOURS RUN																									
WIRE LINE LOGGING		KELLY DOWN		FT.		COND. OF BIT																									
OTHER		TOTAL		FT.		REAMER CUTTER NO.																									
FISHING		WT. OF STRING		LBS.		TYPE																									
COMPLETING (A) PERFORATING		DRILLER																													
(B) RUNNING TUBING		NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(C) SWABBING		STANDS DP		FT.		RUN NO.																								TIME	
(D) TESTING		SNGLS. DP		FT.		SIZE																								WEIGHT	
(E) ACIDIZING		D.C. ID				MFG.																								VISC	
(F) ADDITIONAL		OD		FT.		TYPE																								W.L.C.C.	
TOTALS		RMR BODY OD		FT.		NOZ. NO.																								FLTR. CK.	
TIME SUMMARY (OFFICE USE ONLY)		STB BODY OD		FT.		SIZE																								PH	
CONTRACTOR'S TIME HRS.		SUBS OD		FT.		SER. NO.																								SD. CONT.	
OPERATOR'S TIME:		BIT OR C.B.		FT.		DEPTH OUT																									
HRS. W/D.P.:				FT.		CUMULATIVE HOURS RUN																									
HRS. WO/D.P.:		KELLY DOWN		FT.		COND. OF BIT																									
HRS. STANDBY		TOTAL		FT.		REAMER CUTTER NO.																									

DATE MARCH 10 19 68

Contractor BALDWIN & KROLL Rig No. 475 K.B. Elev. 825 Report No. 10

PUMP MAKE										TYPE										Stroke Length										WELL NAME										Contractor										D.H.A. WIN & KNOX										Rig No.										K.B. Rev.										Report No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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OPERATOR G.P.D.		LOCATION LSD. SEC. TWP. RGE. W. 61 50 1160 39 30		WELL NAME MILLER MILLS LAKE #3		No. 9		PROVINCE N.W.T.																					
CONTRACTOR BALDWIN & KNOLL LIMITED		RPG No. 1		DRILL PIPE STRING NO. SIZE		TOOL JOINT OD		PUMPS		CASING & LINER RECORD		SIZE WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER D. J. J. J.		NO. 1. R.D.		TYPE THD. 3 1/2		TYPE STROKE LENGTH FYP 10		RECORD																			
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		STANDS DP		FT. RUN NO.																								TIME	
REAMING		SNGLS. DP		FT. SIZE																								WEIGHT	
CIRCULATING		D.C. ID		MFG.																								VISC	
TRIPS		RMR BODY OD		FT. TYPE																								W.L.-C.C.	
DEVIATION SURVEY		STB BODY OD		FT. NOZ. NO. SIZE																								FLTR. CK.	
TEST S.O.P.		SUBS OD		FT. SER. NO.																								PH	
CUT OFF DRILL LINE		BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
REPAIR RIG				FT. CUMULATIVE HOURS RUN																									
CORING		KELLY DOWN		FT. COND. OF BIT																									
WIRE LINE LOGGING		TOTAL		FT. REAMER CUTTER NO.																									
OTHER		WT. OF STRING		LBS. TYPE																									
FISHING		DRILLER																											
COMPLETING (A) PERFORATING		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
(B) RUNNING TUBING		STANDS DP		FT. RUN NO.																								TIME	
(C) SWABBING		SNGLS. DP		FT. SIZE																								WEIGHT	
(D) TESTING		D.C. ID		MFG.																								VISC	
(E) ACIDIZING		RMR BODY OD		FT. TYPE																								W.L.-C.C.	
(F) ADDITIONAL		STB BODY OD		FT. NOZ. NO. SIZE																								FLTR. CK.	
TOTALS		SUBS OD		FT. SER. NO.																								PH	
TIME SUMMARY (OFFICE USE ONLY)		BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
CONTRACTOR'S TIME HRS.				FT. CUMULATIVE HOURS RUN																									
OPERATOR'S TIME:		KELLY DOWN		FT. COND. OF BIT																									
HRS. W/D.P.:		TOTAL		FT. REAMER CUTTER NO.																									
HRS. WO/D.P.:		WT. OF STRING		LBS. TYPE																									
HRS. STANDBY		DRILLER																											
WIRE LINE RECORD		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
REEL NO		STANDS DP																											

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OPERATOR C.P.D.		LOCATION LSD. 61 SEC. 50		TWP. 116 RGE. 39 W. 50		WELL NAME No. 1 Milk Lake P-54-3		No. 8		PROVINCE ALBERTA																																																																																																																																																																																																																																																																																																																																																																																																										
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG No. 1		DRILL PIPE STRING NO. 3/2		TOOL JOINT TYPE THD. 1.F.		OD		PUN PS																																																																																																																																																																																																																																																																																																																																																																																																										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1. 6-D		2.		3.		MANUFACTURER																																																																																																																																																																																																																																																																																																																																																																																																										
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DP</th><th>948.14</th><th>FT.</th><th>SIZE</th><th>6 1/4</th><th>1370</th><th>1410</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>3:00</th><th>7:00</th><th>11.1</th><th>10.2</th><th>59</th><th>59</th><th></th><th colspan="4"></th></tr><tr><th>13</th><th>D.C. ID</th><th>351.27</th><th>FT.</th><th>MFG.</th><th>Reed</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>OD</th><th></th><th>FT.</th><th>TYPE</th><th>YH-R</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>RMR BODY OD</th><th></th><th>FT.</th><th>NOZ.</th><th>NO.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>STB BODY OD</th><th></th><th>FT.</th><th>NOZ.</th><th>NO.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th>1</th><th>SUBS OD</th><th>179</th><th>FT.</th><th>SER. NO.</th><th>E37111</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>BIT OR C.B.</th><th></th><th>FT.</th><th>DEPTH OUT</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th></th><th></th><th>FT.</th><th>CUMULATIVE HOURS RUN</th><th>6 1/2</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>KELLY DOWN</th><th>28.67</th><th>FT.</th><th>COND. OF BIT</th><th>1N</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>TOTAL</th><th>1410</th><th>FT.</th><th>REAMER CUTTER NO.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>WT. OF STRING</th><th>2941</th><th>LBS.</th><th>TYPE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr><tr><th></th><th>DRILLER</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4"></th></tr></thead></table>												NO. DRILLING ASSEMBLY				BIT RECORD				FORMATION (SHOW CORE RECOVERY)				PUMP PRESS.				PUMP NO. 1				PUMP NO. 2				MUD RECORD				STANDS DP	FT.	RUN NO.	SIZE	HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME	WEIGHT	VISC	W.L.C.C.	FLTR. CK.	PH	SD. CONT.	MUD & CHEMICALS ADDED				33	SNGLS. DP	948.14	FT.	SIZE	6 1/4	1370	1410											3:00	7:00	11.1	10.2	59	59						13	D.C. ID	351.27	FT.	MFG.	Reed																								OD		FT.	TYPE	YH-R																								RMR BODY OD		FT.	NOZ.	NO.																								STB BODY OD		FT.	NOZ.	NO.																							1	SUBS OD	179	FT.	SER. NO.	E37111																								BIT OR C.B.		FT.	DEPTH OUT																											FT.	CUMULATIVE HOURS RUN	6 1/2																								KELLY DOWN	28.67	FT.	COND. OF BIT	1N																								TOTAL	1410	FT.	REAMER CUTTER NO.																									WT. OF STRING	2941	LBS.	TYPE																									DRILLER																										
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			FT.	CUMULATIVE HOURS RUN	6 1/2																																																																																																																																																																																																																																																																																																																																																																																																															
	KELLY DOWN	28.67	FT.	COND. OF BIT	1N																																																																																																																																																																																																																																																																																																																																																																																																															
	TOTAL	1410	FT.	REAMER CUTTER NO.																																																																																																																																																																																																																																																																																																																																																																																																																
	WT. OF STRING	2941	LBS.	TYPE																																																																																																																																																																																																																																																																																																																																																																																																																
	DRILLER																																																																																																																																																																																																																																																																																																																																																																																																																			

| | NO. DRILLING ASSEMBLY | | | | BIT RECORD | | | | FORMATION (SHOW CORE RECOVERY) | | | | PUMP PRESS. | | | | PUMP NO. 1 | | | | PUMP NO. 2 | | | | MUD RECORD | | | | | |-----------------------|---------------|---------|------|----------------------|----------|------|------|--------------------------------|----------------|------------------|-------------|-----------------------|--------|-----------------------|--------|------------------|------|--------|------|------------|-----------|-------|-----------|-----------------------|--|--|--|--| | STANDS DP | FT. | RUN NO. | SIZE | HRS. DRLD. | CORE NO. | FROM | TO | FORMATION (SHOW CORE RECOVERY) | ROTA-RY R.P.M. | WT. ON BIT 1000# | PUMP PRESS. | PUMP NO. 1 LINER SIZE | S.P.M. | PUMP NO. 2 LINER SIZE | S.P.M. | METHOD PUMPS RUN | TIME | WEIGHT | VISC | W.L.C.C. | FLTR. CK. | PH | SD. CONT. | MUD & CHEMICALS ADDED | | | | | | 23 | SNGLS. DP | | FT. | SIZE | 6 1/4 | 1410 | 1425 | | | | | | | | | | | 9:00 | 10.2 | 54 | 17 | 8 1/2 | 11 | | | | | | | | D.C. ID | | FT. | MFG. | Reed | | | | | | | | | | | | | | | | | | | | | | | | | | OD | | FT. | TYPE | YH-R | | | | | | | | | | | | | | | | | | | | | | | | | | RMR BODY OD | | FT. | NOZ. | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | STB BODY OD | | FT. | NOZ. | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | SUBS OD | | FT. | SER. NO. | E37111 | | | | | | | | | | | | | | | | | | | | | | | | | | BIT OR C.B. | | FT. | DEPTH OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | FT. | CUMULATIVE HOURS RUN | 10 1/4 | | | | | | | | | | | | | | | | | | | | | | | | | | KELLY DOWN | | FT. | COND. OF BIT | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | | FT. | REAMER CUTTER NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | WT. OF STRING | | LBS. | TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | DRILLER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NO. DRILLING ASSEMBLY | | | | BIT RECORD | | | | FORMATION (SHOW CORE RECOVERY) | | | | PUMP PRESS. | | | | PUMP NO. 1 | | | | PUMP NO. 2 | | | | MUD RECORD | | | | | |-----------------------|---------------|---------|------|----------------------|----------|------|---------|--------------------------------|----------------|------------------|-------------|-----------------------|--------|-----------------------|--------|------------------|------|--------|------|------------|-----------|----|-----------|-----------------------|--|--|--|--| | STANDS DP | FT. | RUN NO. | SIZE | HRS. DRLD. | CORE NO. | FROM | TO | FORMATION (SHOW CORE RECOVERY) | ROTA-RY R.P.M. | WT. ON BIT 1000# | PUMP PRESS. | PUMP NO. 1 LINER SIZE | S.P.M. | PUMP NO. 2 LINER SIZE | S.P.M. | METHOD PUMPS RUN | TIME | WEIGHT | VISC | W.L.C.C. | FLTR. CK. | PH | SD. CONT. | MUD & CHEMICALS ADDED | | | | | | 34 | SNGLS. DP | 1028.36 | FT. | SIZE | 6 1/4 | 1425 | 1425:00 | K.B. | | | | | | | | | | 10:00 | 10.3 | 60 | 16 | 16 | 11 | | | | | | | | D.C. ID | 318.27 | FT. | MFG. | Reed | | | | | | | | | | | | | | | | | | | | | | | | | | OD | | FT. | TYPE | YH-R | | | | | | | | | | | | | | | | | | | | | | | | | | RMR BODY OD | | FT. | NOZ. | NO. | | | | | | | | | | | | | | | | | | | | | | | | | | STB BODY OD | | FT. | NOZ. | NO. | | | | | | | | | | | | | | | | | | | | | | | | | 1 | SUBS OD | 179 | FT. | SER. NO. | E37111 | | | | | | | | | | | | | | | | | | | | | | | | | | BIT OR C.B. | | FT. | DEPTH OUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | FT. | CUMULATIVE HOURS RUN | 10 1/4 | | | | | | | | | | | | | | | | | | | | | | | | | | KELLY DOWN | 13.58 | FT. | COND. OF BIT | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | 1425.00 | FT. | REAMER CUTTER NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | WT. OF STRING | | LBS. | TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | DRILLER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

Handwritten log form for well No. 1 Mills Lake #3. Includes sections for Operator (G.P.D.), Contractor (Baldwin & Knoll Limited), Time Distribution (Morning, Day, Evening tours), Drilling Assembly, Bit Record, Formation (Shale), and Mud Record. Contains handwritten data for runs, depths, and pump pressures.

11. 5-68

P-57

OPERATOR GRD		LOCATION LSD. 110° SEC. 50 TWP. 116° RGE. 37 W. 30		WELL NAME Neel Mills L&K-5		PROVINCE M.W.T.												
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG NO. 1	DRILL PIPE STRING NO. SIZE 1 1/2 3/2	TOOL JOINT TYPE THD. 1F	OD 3.0	PUMPS 5	CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER					
OPERATOR'S REPRESENTATIVE B. Knoll		CONTRACTOR'S TOOL PUSHER B. Knoll		NO. 1. GRD		TYPE EXD		STROKE LENGTH 10										
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD. CORE NO. FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD		
DRILLING ACTUAL 6 1/2 7 1/4		16 STANDS DP 543.71 FT.		RUN NO. 4 5		HRS. DRLD. 6 1/4 CORE NO. 869 FROM 9.36				200	15M	100	5'	74			TIME 1.00	7.00
REAMING		13 SNGLS. DP 38.27		SIZE 6 1/4 6 1/4													WEIGHT 6.0	9.8
CIRCULATING		D.C. ID 38.27		MFG. Reed Reed													VISC 6.0	6.0
TRIPS 1 1/2		OD 38.27		TYPE YHR YH-R													W.L.C.C. 9.6	9.6
DEVIATION SURVEY		RMR BODY OD 38.27		FT. NO. 3 NO. 0		DEVIATION RECORD: 749		DEPTH 1'		DIRECTION		DEPTH		DEV. DIRECTION		FLTR. CK. 1/2		1/2
TEST B.O.P.		1 SUBS OD 1.74 FT.		SER. NO. RR E37072		1200 - 1215 - Rig Service										SD. CONT.		
CUT OFF DRILL LINE		BIT OR C.B. 9.00		DEPTH OUT 9.00		1215 - 315 - Drill 6 1/4												
REPAIR RIG		CUMULATIVE HOURS RUN 17 3/4 3 1/4				315 - 445 - Heart for Bit No 4 & Run in Hls 5												
CORING		KELLY DOWN 4.23 FT.		COND. OF BIT hooked 1H		445 - 822 - Drill 6 1/4 hole.												
WIRE LINE LOGGING		TOTAL 9.23 FT.		REAMER CUTTER NO.														
OTHER 1/4 1/4		WT. OF STRING 936.00 LBS.		TYPE														
FISHING		DRILLER Th Sammut																
COMPLETING (AS PERFORATING)		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD. CORE NO. FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD		
1B2 RUNNING TUBING		19 STANDS DP 573.85		RUN NO. 5		HRS. DRLD. 4 1/4 CORE NO. 936 FROM 9.30				150	18"	100	5'	60			TIME 9.00	9.00
1C2 SWABBING		SNGLS. DP 38.12		SIZE 6 1/4													WEIGHT 10.2	10.2
1D2 TESTING		D.C. ID 38.12		MFG. Reed													VISC 7.5	6.2
1E2 ACIDIZING		OD 38.12		TYPE YHR													W.L.C.C. 12.5	12.5
1F2 ADDITIONAL		RMR BODY OD 38.12		FT. NO. NO		DEVIATION RECORD: 8 1/2 - 8 1/2		DEPTH 8 1/2		DIRECTION		DEPTH		DEV. DIRECTION		FLTR. CK. 1/2		1/2
TOTALS 5 6		STB BODY OD 38.12		FT. NO. NO		8 1/2 - 400												
TIME SUMMARY (OFFICE USE ONLY)		1 SUBS OD 1.74 FT.		SER. NO. E37072		8 1/2 - 400		REMARKS Run Service Drill 6 1/4 hole										
CONTRACTOR'S TIME HRS:		BIT OR C.B. 10.2		DEPTH OUT 10.2														
OPERATOR'S TIME:		CUMULATIVE HOURS RUN 10.2																
HRS. W/D.P.:		KELLY DOWN 23.0		COND. OF BIT hooked														
HRS. W/D.P.:		TOTAL 9.40		REAMER CUTTER NO.														
HRS. STANDBY		WT. OF STRING 940.00 LBS.		TYPE														
WIRE LINE RECORD		DRILLER Re. H. Hanson																
REEL NO		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD. CORE NO. FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M					

OPERATOR GPD		DATE 11/12/68		WELL NAME NOEL MILLS 1st		No. 3		PROVINCE NWT	
CONTRACTOR BALDWIN & KNOLL LIMITED		DRILL PIPE STRING NO. SIZE 1		TOOL JOINT OD		PS PS		Casing & Liner Record	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER Tim Dand		MANUFACTURER G.D.		TYPE FLD		STROKE LENGTH 10	
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	
MORN DAY EVE		STANDS DP		FT. RUN NO.		FROM		TO	
DRILLING ACTUAL 3 3/4		13 SNGLS. DP		394.15		SIZE 6 1/4		3 3/4	
REAMING 1 1/4		13 D.C. ID		381.27		MFG. Reed		749	
CIRCULATING 1 1/2		13 OD		381.27		TYPE V.M.R.		88	
TRIPS		RMR BODY OD		FT.		NO.		FORMATION (SHOW CORE RECOVERY)	
DEVIATION SURVEY		STB BODY OD		FT.		NO.		ROTA- RY R.P.M.	
TEST B.O.P		SUBS. OD		1.79		SER. NO.		WT. ON BIT 1000#	
CUT OFF DRILL LINE		BIT OR C.B.		FT.		DEPTH OUT		PUMP PRESS.	
REPAIR RIG 1 1/4		KELLY DOWN		10.32		COND. OF BIT		PUMP NO. 1	
CORING		TOTAL		788		REAMER CUTTER NO.		PUMP NO. 2	
WIRE LINE LOGGING		WT. OF STRING		254		LBS.		METHOD PUMPS RUN	
OTHER 1 1/4		DRILLER 9.6		TYPE				MUD RECORD	
FISHING		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	
COMPLETING (A) PERFORATING		STANDS DP		FT. RUN NO.		FROM		TO	
(B) RUNNING TUBING		14 SNGLS. DP		473.37		SIZE 6 1/4		FORMATION (SHOW CORE RECOVERY)	
(C) SWABBING		13 D.C. ID		318.27		MFG. Reed		ROTA- RY R.P.M.	
(D) TESTING		13 OD		318.27		TYPE V.M.R.		WT. ON BIT 1000#	
(E) ACIDIZING		RMR BODY OD		FT.		NO.		PUMP PRESS.	
(F) ADDITIONAL		STB BODY OD		FT.		NO.		PUMP NO. 1	
TOTALS 7 8 8		SUBS. OD		1.79		SER. NO.		PUMP NO. 2	
TIME SUMMARY (OFFICE USE ONLY)		BIT OR C.B.		FT.		DEPTH OUT		METHOD PUMPS RUN	
CONTRACTOR'S TIME HRS.		KELLY DOWN		19.6		COND. OF BIT		MUD RECORD	
OPERATOR'S TIME		TOTAL		826.00		REAMER CUTTER NO.		TIME	
HRS. W/D.P.		WT. OF STRING		LBS.		TYPE		WEIGHT	
HRS. WO/D.P.		DRILLER		TYPE				VISC	
HRS. STANDBY		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		W.L.C.C.	
WIRE LINE RECORD		STANDS DP		FT. RUN NO.		FROM		FLTR. CK.	
REEL NO		15 SNGLS. DP		453.17		SIZE 6 1/4		PH	
NO. OF LINES SIZE		13 D.C. ID		318.27		MFG. Reed		SD. CONT.	
FEET SLIPPED		13 OD		318.27		TYPE V.M.R.		MUD & CHEMICALS ADDED	
FEET CUT OFF		RMR BODY OD		FT.		NO.		TYPE AMT. TYPE AMT.	
PRESENT LENGTH		STB BODY OD		FT.		NO.			
TON MI. OF TRIPS SINCE LAST CUT		SUBS. OD		1.79		SER. NO.			
CUMULATIVE TON MI. OF TRIPS		BIT OR C.B.		FT.		DEPTH OUT			
NO. OF DAYS FROM SPUD		KELLY DOWN		32.81		COND. OF BIT			
CUMULATIVE ROTATING HRS.		TOTAL		869.00		REAMER CUTTER NO.			
		WT. OF STRING		LBS.		TYPE			
		DRILLER La. H. Hanson		TYPE					
		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	
		STANDS DP		FT. RUN NO.		FROM		TO	
		15 SNGLS. DP		453.17		SIZE 6 1/4		FORMATION (SHOW CORE RECOVERY)	
		13 D.C. ID		318.27		MFG. Reed		ROTA- RY R.P.M.	
		13 OD		318.27		TYPE V.M.R.		WT. ON BIT 1000#	
		RMR BODY OD		FT.		NO.		PUMP PRESS.	
		STB BODY OD		FT.		NO.		PUMP NO. 1	
		SUBS. OD		1.79		SER. NO.		PUMP NO. 2	
		BIT OR C.B.		FT.		DEPTH OUT		METHOD PUMPS RUN	
		KELLY DOWN		32.81		COND. OF BIT		MUD RECORD	
		TOTAL		869.00		REAMER CUTTER NO.		TIME	
		WT. OF STRING		LBS.		TYPE		WEIGHT	
		DRILLER		TYPE				VISC	
		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		W.L.C.C.	
		STANDS DP		FT. RUN NO.		FROM		FLTR. CK.	
		15 SNGLS. DP		453.17		SIZE 6 1/4		PH	
		13 D.C. ID		318.27		MFG. Reed		SD. CONT.	
		13 OD		318.27		TYPE V.M.R.		MUD & CHEMICALS ADDED	
		RMR BODY OD		FT.		NO.		TYPE AMT. TYPE AMT.	
		STB BODY OD		FT.		NO.			
		SUBS. OD		1.79		SER. NO.			
		BIT OR C.B.		FT.		DEPTH OUT			
		KELLY DOWN		32.81		COND. OF BIT			
		TOTAL		869.00		REAMER CUTTER NO.			
		WT. OF STRING		LBS.		TYPE			
		DRILLER		TYPE					
		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.	
		STANDS DP		FT. RUN NO.		FROM		TO	
		15 SNGLS. DP		453.17		SIZE 6 1/4		FORMATION (SHOW CORE RECOVERY)	
		13 D.C. ID		318.27		MFG. Reed		ROTA- RY R.P.M.	
		13 OD		318.27		TYPE V.M.R.		WT. ON BIT 1000#	
		RMR BODY OD		FT.		NO.		PUMP PRESS.	
		STB BODY OD		FT.		NO.		PUMP NO. 1	
		SUBS. OD		1.79		SER. NO.		PUMP NO. 2	
		BIT OR C.B.		FT.		DEPTH OUT		METHOD PUMPS RUN	
		KELLY DOWN		32.81		COND. OF BIT		MUD RECORD	
		TOTAL		869.00		REAMER CUTTER NO.		TIME	
		WT. OF STRING		LBS.		TYPE		WEIGHT	
		DRILLER		TYPE				VISC	
		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		W.L.C.C.	
		STANDS DP		FT. RUN NO.		FROM		FLTR. CK.	
		15 SNGLS. DP		453.17		SIZE 6 1/4		PH	
		13 D.C. ID		318.27		MFG. Reed		SD. CONT.	
		13 OD		318.27		TYPE V.M.R.		MUD & CHEMICALS ADDED	
		RMR BODY OD		FT.		NO.		TYPE AMT. TYPE AMT.	
		STB BODY OD		FT.		NO.			
		SUBS. OD		1.79		SER. NO.			
		BIT OR C.B.		FT.		DEPTH OUT			
		KELLY DOWN		32.81		COND. OF BIT			
		TOTAL		869.00		REAMER CUTTER NO.			
		WT. OF STRING		LBS.		TYPE			
		DRILLER		TYPE					

DAILY DRILLING REPORT

REPORT NO. 5

DATE

March 3-68

P-52

OPERATOR C.P.D.	LOCATION LSD. 61 SEC. 50 TWP. 116 RGE. 39 W. 30	WELL NAME NOEL MILL LAKE	No. 3	PROVINCE NEW.T.
CONTRACTOR BALDWIN & KNOLL LIMITED	RIG NO. 1	DRILL PIPE STRING NO. 3 SIZE 7 1/2	TOOL JOINT TYPE THD. 1F	OD
OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER Raymond	MANUFACTURER 60	TYPE FXD 10	STROKE LENGTH
		CASING & LINER RECORD	SIZE	WT. & GR.
		DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED
		OTHER		

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000g	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL	6 1/4	6	6 1/4	7	SNGLS. DP	212.50 FT.	SIZE	6 1/4		485	616			180	10M	350	5	74		TIME	1200	3.00
REAMING		1 3/4		13	D.C. ID	381.27 FT.	MFG.	5												WEIGHT	45	9.0
CIRCULATING					OD		TYPE	3.3												VISC		49
TRIPS	1		1		RMR BODY OD		FT.	NOZ.	NO.											W.L.C.C.		
DEVIATION SURVEY	3/4				STB BODY OD		FT.	NOZ.	SIZE											FLTR. CK.		
TEST B.O.P.					SUBS OD	1.79 FT.	SER. NO.	906374												PH		
CUT OFF DRILL LINE					BIT OR C.B.		FT.	DEPTH OUT												SD. CONT.		
REPAIR RIG	1/4	1/4	1/4				FT.	CUMULATIVE HOURS RUN														
CORING					KELLY DOWN	2044 FT.	COND. OF BIT	Loose														
WIRE LINE LOGGING					TOTAL	616 FT.	REAMER CUTTER NO.															
OTHER					WT. OF STRING	234 LBS.	TYPE															
FISHING					DRILLER																	
COMPLETING (A) PERFORATING																						
(B) RUNNING TUBING																						
(C) SWABBING																						
(D) TESTING																						
(E) ACIDIZING																						
(F) ADDITIONAL																						
TOTALS	8	9	8																			
TIME SUMMARY (OFFICE USE ONLY)																						
CONTRACTOR'S TIME HRS.																						
OPERATOR'S TIME:																						
HRS. W/D.P.																						
HRS. WO/D.P.																						
HRS. STANDBY																						

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000g	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL	6 1/4	6	6 1/4	10	SNGLS. DP	303.26 FT.	SIZE	6 1/4		616	705			10M	250	5	72		TIME	9 AM	11 AM	
REAMING				13	D.C. ID	381.27 FT.	MFG.	5											WEIGHT	9.2	9.6	
CIRCULATING					OD		TYPE	5.6											VISC	61	41	
TRIPS	1		1		RMR BODY OD		FT.	NOZ.	NO.										W.L.C.C.			
DEVIATION SURVEY	3/4				STB BODY OD		FT.	NOZ.	SIZE										FLTR. CK.			
TEST B.O.P.					SUBS OD	1.79 FT.	SER. NO.	906374											PH			
CUT OFF DRILL LINE					BIT OR C.B.		FT.	DEPTH OUT											SD. CONT.			
REPAIR RIG	1/4	1/4	1/4				FT.	CUMULATIVE HOURS RUN														
CORING					KELLY DOWN	17.66 FT.	COND. OF BIT	Loose														
WIRE LINE LOGGING					TOTAL	705.00 FT.	REAMER CUTTER NO.															
OTHER					WT. OF STRING		LBS.	TYPE														
FISHING					DRILLER																	
COMPLETING (A) PERFORATING																						
(B) RUNNING TUBING																						
(C) SWABBING																						
(D) TESTING																						
(E) ACIDIZING																						
(F) ADDITIONAL																						
TOTALS	8	9	8																			
TIME SUMMARY (OFFICE USE ONLY)																						
CONTRACTOR'S TIME HRS.																						
OPERATOR'S TIME:																						
HRS. W/D.P.																						
HRS. WO/D.P.																						
HRS. STANDBY																						

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000g	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	MUD RECORD			
DRILLING ACTUAL	6 1/4	6	6 1/4	18	SNGLS. DP	333.2 FT.	SIZE	6 1/4		705	749			150	1500	10	5	74		TIME	9 1/2	
REAMING				2	D.C. ID	381.27 FT.	MFG.	5											WEIGHT	9.6		
CIRCULATING					OD		TYPE	5.6											VISC	35		
TRIPS	1		1		RMR BODY OD		FT.	NOZ.	NO.										W.L.C.C.			
DEVIATION SURVEY	3/4				STB BODY OD		FT.	NOZ.	SIZE										FLTR. CK.			
TEST B.O.P.					SUBS OD	1.79 FT.	SER. NO.	906374											PH	10		
CUT OFF DRILL LINE					BIT OR C.B.		FT.	DEPTH OUT											SD. CONT.			
REPAIR RIG	1/4	1/4	1/4				FT.	CUMULATIVE HOURS RUN														
CORING					KELLY DOWN	32.73 FT.	COND. OF BIT	Loose														
WIRE LINE LOGGING					TOTAL	749.00 FT.	REAMER CUTTER NO.															
OTHER					WT. OF STRING		LBS.	TYPE														
FISHING					DRILLER																	
COMPLETING (A) PERFORATING																						
(B) RUNNING TUBING																						
(C) SWABBING																						
(D) TESTING																						
(E) ACIDIZING																						
(F) ADDITIONAL																						
TOTALS	8	9	8																			
TIME SUMMARY (OFFICE USE ONLY)																						
CONTRACTOR'S TIME HRS.																						
OPERATOR'S TIME:																						
HRS. W/D.P.																						
HRS. WO/D.P.																						
HRS. STANDBY																						

Operator: G.P.A. Location: 610 31 50 TWP: 1160 RGE: 39 W: 30 Well Name: NOEL MILL LAKE No. 3 Province: ALBERTA

Contractor: BALDWIN & KNOLL LIMITED RIG No. 35

Drill Pipe String No. 35 Tool Joint Type THD. 1K

Operator's Representative: Contractor's Tool Pusher: [Signature]

Time Distribution - Hours: Morning 9 1/2, Day 1 1/2, Evening 2

Drilling Assembly: STANDS DP, FT. RUN NO. 1 2, SNGLS. DP, FT. SIZE 4 7/8 9 7/8, D.C. ID, MFG. SEC SEC, OD 175.29 FT. TYPE 53 53, RMR BODY OD, FT. NOZ. NO. 3 3, STB BODY OD, FT. SIZE 5 7/8 5 7/8, SUBS OD 2 83 FT. SER. NO. 92391945423, BIT OR C.B. FT. DEPTH OUT 155, CUMULATIVE HOURS RUN 13 1/2 2 1/2, KELLY DOWN 34 88 FT. COND. OF BIT 123, REAMER CUTTER NO. 2 1/2, TOTAL 213 FT. REAMER CUTTER NO. 4 3/4 5 1/2, WT. OF STRING 180 LBS. TYPE 127 1/2

Formation (Show Core Recovery): 127 1/2 127 1/2 DR LG 9 7/8 HOLE, 127 1/2 127 1/2 RIG SERVICE, 127 1/2 127 1/2 DR LG 9 7/8 HOLE, 2 1/2 2 1/2 RIG FOR BIT-2-9 7/8 HOLE, 4 3/4 5 1/2 CLEAN TO BOTTOM, 5 1/2 7 1/2 DR LG 9 7/8 HOLE, 7 1/2 7 1/2 WORK ON PUMP, 7 1/2 8 1/2 DR LG 9 7/8 HOLE

Mud Record: TIME 25, WEIGHT 92, VISC 65, W.L.C.C. 5.00, FLTR. CK. PH SD. CONT.

Mud & Chemicals Added: TYPE AMT. TYPE AMT.

Driller: Blanchette

Time Summary (Office Use Only): Contractor's Time Hrs: 2, Operator's Time: 2, Hrs W/D.P.: 2, Hrs W/O.D.P.: 2, Hrs Standby: 2

Wire Line Record: REEL NO, NO OF LINES, SIZE, FEET SLIPPED, FEET CUT OFF, PRESENT LENGTH, TON MI. OF TRIPS SINCE LAST CUT, CUMULATIVE TON MI. OF TRIPS, NO. OF DAYS FROM SPUD, CUMULATIVE ROTATING HRS.

Drilling Assembly: STANDS DP, FT. RUN NO. 2, SNGLS. DP, FT. SIZE 9 7/8, D.C. ID 229.66, MFG. SEC, OD 229.66 FT. TYPE 33, RMR BODY OD, FT. NOZ. NO. 3, STB BODY OD, FT. SIZE 3 1/2, SUBS OD 2 83 FT. SER. NO. 92391945423, BIT OR C.B. FT. DEPTH OUT 255, CUMULATIVE HOURS RUN 2 1/2, KELLY DOWN 15 51 FT. COND. OF BIT 845, REAMER CUTTER NO. 10 1/2, TOTAL 255 FT. REAMER CUTTER NO. 10 1/2, WT. OF STRING 180 LBS. TYPE 127 1/2

Formation (Show Core Recovery): 127 1/2 127 1/2 SERVICE RIG, 8 1/2 8 1/2 DR LG 9 7/8 HOLE, 8 1/2 8 1/2 WORK ON PUMP, 8 1/2 10 1/2 DR LG 9 7/8 HOLE, 10 1/2 10 1/2 CIRC TO RUN GSG, 10 1/2 11 1/2 HOIST TO RUN C.S.G. 1145, 12 1/2 RIG UP TO RUN C.S.G., 12 1/2 300 Run & cement casing, 3 1/2 400 Wait on Cement

Mud Record: TIME, WEIGHT, VISC, W.L.C.C., FLTR. CK. PH SD. CONT.

Mud & Chemicals Added: TYPE AMT. TYPE AMT.

Driller: Blanchette

Time Summary (Office Use Only): Contractor's Time Hrs: 2, Operator's Time: 2, Hrs W/D.P.: 2, Hrs W/O.D.P.: 2, Hrs Standby: 2

Wire Line Record: REEL NO, NO OF LINES, SIZE, FEET SLIPPED, FEET CUT OFF, PRESENT LENGTH, TON MI. OF TRIPS SINCE LAST CUT, CUMULATIVE TON MI. OF TRIPS, NO. OF DAYS FROM SPUD, CUMULATIVE ROTATING HRS.

Drilling Assembly: STANDS DP, FT. RUN NO. 2, SNGLS. DP, FT. SIZE 9 7/8, D.C. ID 229.66, MFG. SEC, OD 229.66 FT. TYPE 33, RMR BODY OD, FT. NOZ. NO. 3, STB BODY OD, FT. SIZE 3 1/2, SUBS OD 2 83 FT. SER. NO. 92391945423, BIT OR C.B. FT. DEPTH OUT 255, CUMULATIVE HOURS RUN 2 1/2, KELLY DOWN 15 51 FT. COND. OF BIT 845, REAMER CUTTER NO. 10 1/2, TOTAL 255 FT. REAMER CUTTER NO. 10 1/2, WT. OF STRING 180 LBS. TYPE 127 1/2

Formation (Show Core Recovery): 127 1/2 127 1/2 SERVICE RIG, 8 1/2 8 1/2 DR LG 9 7/8 HOLE, 8 1/2 8 1/2 WORK ON PUMP, 8 1/2 10 1/2 DR LG 9 7/8 HOLE, 10 1/2 10 1/2 CIRC TO RUN GSG, 10 1/2 11 1/2 HOIST TO RUN C.S.G. 1145, 12 1/2 RIG UP TO RUN C.S.G., 12 1/2 300 Run & cement casing, 3 1/2 400 Wait on Cement

Mud Record: TIME, WEIGHT, VISC, W.L.C.C., FLTR. CK. PH SD. CONT.

Mud & Chemicals Added: TYPE AMT. TYPE AMT.

Driller: Blanchette

DATE FEB 24 1962

P-52

PROVINCE N.W.T.

WELL NAME McElmillan Lake P52

OPERATOR G.P.D.

CONTRACTOR BALDWIN & KNOLL LIMITED

RIG NO. 1

DRILL PIPE STRING NO. 35

TOOL JOINT TYPE THD. 1F

NO. 1. (ED)

2.

3.

MANUFACTURER

TYPE FXE

STROKE LENGTH 70

CASING & LINER RECORD

SIZE

WT. & GRA.

DEPTH SET FROM TO

PERFORATIONS FROM TO

CEMENT USED

OTHER

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER

TIME DISTRIBUTION—HOURS

MORNING TOUR

DAY TOUR

EVENING TOUR

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OF TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OF TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

NO. DRILLING ASSEMBLY

BIT RECORD

HRS. DRLD.

CORE NO.

FROM

TO

FORMATION (SHOW CORE RECOVERY)

ROTA-RY R.P.M.

WT. ON BIT 1000#

PUMP PRESS.

PUMP NO. 1 LINER SIZE S.P.M.

PUMP NO. 2 LINER SIZE S.P.M.

METHOD PUMPS RUN

MUD RECORD

TIME

WEIGHT

VISC.

W.L.C.C.

FLTR. CK.

PH

SD. CONT.

MUD & CHEMICALS ADDED

TYPE

AMT.

TYPE

AMT.

REMARKS

12:00 12:15 SE RVICE RIG

12:15 2:00 M.L. MUD

2:00 3:00 Dig. RAT HOLE

3:00 5:00 RIG UP POWER SWIVEL & PICKUP 720

5:00 8:00 Dig. RAT HOLE

8:00 9:15 SE RVICE RIG

9:15 12:00 Dig. RAT HOLE

12:00 12:15 - head Kelly Sucks

12:15 4:00 Drill 9 7/8 Section hole, 9715

WELDER MECH

CAMP

TRUCKING

13:00 15:00

4:15 - 4:15 - Rig Service

4:15 - 5:15 - Lay down Power Sub & Pick up Kelly

5:15 - 12:00 Drill 9 7/8 Section hole

WT. OF STRING

LBS.

TYPE

DRILLER

OPERATOR <i>B.P.D.</i>		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME <i>WATER LAKE PO</i>		No. <i>3</i>		PROVINCE <i>ONT</i>							
CONTRACTOR BALDWIN & KNOLL LIMITED		RIG No. <i>1</i>	DRILL PIPE STRING NO. SIZE	TOOL JOINT TYPE THD.	OD	PUMPS		CASING & LINER RECORD		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER <i>John T. ...</i>		FIO.		MANUFACTURER		TYPE		STROKE LENGTH		SIZE		WT. & GR.	
				1.											
				2.											
				3.											

TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
DRILLING ACTUAL		STANDS DP		FT. RUN NO.																								TIME	
REAMING		SNGLS. DP		FT. SIZE																								WEIGHT	
CIRCULATING		D.C. ID		MFG.																								VISC	
TRIPS		RMR BODY OD		FT. NO. NO.																								W.L.-C.C.	
DEVIATION SURVEY		STB BODY OD		FT. NOZ. SIZE																								FLTR. CK.	
TEST B.O.P.		SUBS OD		FT. SER. NO.																								PH	
CUT OFF DRILL LINE		BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
REPAIR RIG				FT. CUMULATIVE HOURS RUN																									
CORING		KELLY DOWN		FT. COND. OF BIT																									
WIRE LINE LOGGING		TOTAL		FT. REAMER CUTTER NO.																									
OTHER		WT. OF STRING		LBS. TYPE																									
FISHING		DRILLER																											
COMPLETING (A) PERFORATING																													
(B) RUNNING TUBING																													
(C) SWABBING																													
(D) TESTING																													
(E) ACIDIZING																													
(F) ADDITIONAL																													
TOTALS																													
TIME SUMMARY (OFFICE USE ONLY)																													
CONTRACTOR'S TIME HRS:																													
OPERATOR'S TIME:																													
HRS. W/D.P:																													
HRS. WO/D.P:																													
HRS. STANDBY																													
WIRE LINE RECORD																													
REEL NO																													
NO OF LINES SIZE																													
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON MI. OF TRIPS SINCE LAST CUT																													
CUMULATIVE TON MI. OF TRIPS																													
NO. OF DAYS FROM SPUD																													
CUMULATIVE ROTATING HRS.																													

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
STANDS DP		FT. RUN NO.																								TIME	
SNGLS. DP		FT. SIZE																								WEIGHT	
D.C. ID		MFG.																								VISC	
RMR BODY OD		FT. NO. NO.																								W.L.-C.C.	
STB BODY OD		FT. NOZ. SIZE																								FLTR. CK.	
SUBS OD		FT. SER. NO.																								PH	
BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
		FT. CUMULATIVE HOURS RUN																									
KELLY DOWN		FT. COND. OF BIT																									
TOTAL		FT. REAMER CUTTER NO.																									
WT. OF STRING		LBS. TYPE																									
DRILLER																											

Rig up on NEWLASE 803

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
STANDS DP		FT. RUN NO.																								TIME	
SNGLS. DP		FT. SIZE																								WEIGHT	
D.C. ID		MFG.																								VISC	
RMR BODY OD		FT. NO. NO.																								W.L.-C.C.	
STB BODY OD		FT. NOZ. SIZE																								FLTR. CK.	
SUBS OD		FT. SER. NO.																								PH	
BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
		FT. CUMULATIVE HOURS RUN																									
KELLY DOWN		FT. COND. OF BIT																									
TOTAL		FT. REAMER CUTTER NO.																									
WT. OF STRING		LBS. TYPE																									
DRILLER																											

Rig up

WELDED MACH

TRUCKING

BLANK

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT. ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN		MUD RECORD	
STANDS DP		FT. RUN NO.																								TIME	
SNGLS. DP		FT. SIZE																								WEIGHT	
D.C. ID		MFG.																								VISC	
RMR BODY OD		FT. NO. NO.																								W.L.-C.C.	
STB BODY OD		FT. NOZ. SIZE																								FLTR. CK.	
SUBS OD		FT. SER. NO.																								PH	
BIT OR C.B.		FT. DEPTH OUT																								SD. CONT.	
		FT. CUMULATIVE HOURS RUN																									
KELLY DOWN		FT. COND. OF BIT																									
TOTAL		FT. REAMER CUTTER NO.																									
WT. OF STRING		LBS. TYPE																									
DRILLER																											

15.6 UP

MUD & CHEMICALS ADDED

TYPE AMT. TYPE AMT.

[illegible]