GPD NOEL MILLS LAKE

B-41

Drilling Authority No. 297
Date Issued 29 January 68

WELL NAME GPC Noel Mills Lake B-41
FIELD Area:
LOCATION: Unit B Section 41 Grid 61-50-116-45
Latitude 61-40-05-65 Longitude 116-53-17-02
From Established Reference Marker

66824 55805
UWLR 61.~~65806~~ N. Lat - 116.~~88950~~ W Long
UWI 300B416150116450

Rig Release Date: 15/2/68
Status D+A
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
29 Jan 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.
29-2-68	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 .....

NANR 52-90 (7-65)

Drilling Authority No. 297

Date Issued 26th January 1968

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

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

Well name and number: GPD NOEL Mills Lake B-41

Permit No. 4496 Lease No.

Northern Oil Explorers Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 1088

Great Plains Development Company of Canada, Ltd. (Operator) Exploratory Licence No. 1069

Location: Unit B Section 41 Grid 61° 50' 116° 45'

Latitude 61° 40' 05.65" N. Longitude 116° 53' 17.02" W.

From Established Reference Marker B.M. #66-T-11I

Universal Well Location Reference 61.66824° N. Lat. 116.88805° W. Long

	DATE	DEPTH
Spudded	Jan.30/68	
Suspended		
Resumed Operations		
Finished Drilling	Feb.13/68	
Deepened		
Complete (gas/oil)		
Abandoned	Feb.15/68	1375
Rig released	Feb.15/68	1375

Pool(s)

Interval(s) open to production

Elevation: Gr. 694 K.B. 702

Rig No. I

Drilling Contractor Baldwin & Knoll Limited

Contractor's Business Licence No. A11155

CASING RECORD

	Casing Size (Inches)	Grade	Weight	Amount	Set at —	Sacks of Cement and Additives
1.	7"	J-55	20#	340'	318	130 sks. + 3% $CaCl_2$
2.						
3.						
4.						
5.						
6.						

NOTE: Cement did not hole. Ran cement on outside of surface pipe. Water came up around surface pipe. Recemented with 100 sacks + 4% $CaCl_2$. Mixed 11 bags of cement + 100 lbs. Calcium for outside of surface pipe. Held okay.

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Bay River Shale	260'	+ 442
Lonely Bay Lime.	735	- 33
Chinchaga	910	- 208
Mirage Point	1134	- 432
Precambrian	1340	- 838

CORE RECORD

From	To	Rec.	From	To	Rec.
#1 319'	370'	51'			

LOG RECORD

Run No.	Type of Log	From	To
1	Induction Electric	1371	318
1	Borehole Compensated Sonic Gamma Ray	1370	318
1	Formation Density	1371	318

INAND 52-20(2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
Feb. 2	0	318'	Surface Casing. Cemented with 130 sks. + 2% $CaCl_2$
Feb. 14	1375	1200	Plug #1 80 sks. + 3% $CaCl_2$.
Feb. 15	370'	270	Plug #2 25 sacks plus 3% $CaCl_2$. Felt @ 256'
Feb. 15	0	3	Surface plug 5 sacks Welded on plate and erected identification marker.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidising, Fracing, etc.)

Date	From	To	Remarks

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	Feb. 10	Chinchaga	880	915	60	60	60	265	100	13	22	434	431	Recovered 5' drilling fluid
2	Feb. 13	Dolomite Anhydrite and Shale	1270	1304		Test #2 was a misrun No shut in pressures obtained						702	702	Recovered 6' of salty muddy water

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CBH-2-2715	Water	1270	1304	DST #2 above tool	

PRESENT STATUS OF WELL

Oil		(Interval.)
Gas		(Interval.)
Dry	X	
Susp.		

Company Great Plains Development of Canada, Ltd.

Signed by 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. 297

CANADA

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. 297, concerning

GPD NOEL MILLS LAKE B-41

(Name and Number of Well)

The following amendments are required:

CHANGE OF LOCATION:

From — Lat. 61° 40' 05" N.

Long. 116° 53' 15" W.

To — Lat. 61° 40' 05.65" N.

Long. 116° 53' 17.02" W.

Reasons for the amendments:

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

Dated at Calgary, this fourteenth day of May, 1968

Signed by D L Gugarik

Title Production Superintendent

Company Great Plains Development 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. 61.66824° N.

Long. 116.88805° W.

Date 16th May, 19 68

Oil Conservation Engineer

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

IAND 52-93-3 (3-67)

FINAL PLAN

GPD NOEL MILLS LAKE
B41 61-50, 116-45

Latitude 61°40'05".65 Longitude 116°53'17".02

NORTHWEST TERRITORIES

Scale 1000' to 1"

CO ORDINATE TABLE

UTM Values Scale Factor 0.9999 Ref Mer 117°00'

Station	Bearing	Distance	North	East
P6	S 54°04'05" E	5,496.8	22,442,183.8	15,936.7
Well Loc (P7)			22,437,916	19,251.8

Survey Completed Jan. 26, 1968.
Certified Correct

H. Halverson
Alberta Land Surveyor

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.

N. M. Lakits

V. Grigaitis P. Eng.

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

ELEVATION: 694 Ground

DATUM: BM #66-T-111
Elev. 756.816

Prepared by:
MIDWEST SURVEYS CO. LTD.

C34-68

File No. .....
Drilling Authority No. 297

CANADA

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 NORL Mills Lake B-41

Location: Unit B Section 41 Grid 61° 50'; 116° 43'

Latitude 61° 40' 05" Longitude 116° 33' 13"

From Established Reference Marker 1015' S 81° W of NE Corner Unit N Section 41

Universal Well Location Reference 61.66806° N. Lat. 116.88750° W. Long

Permit No. 4496 Lease No. .....

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

Date of commencement of proposed program ~~February~~ 15, 1968

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at .....
Gas at .....
Water at .....
Total Depth 1375 Date of last operations February 16, 1968
Present condition of well .....

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 7"	20#	340'	318	130 Sks + 2% $CaCl_2$	
2.					
3. Recemented bottom with 100 sacks + 2% $CaCl_2$ of which 70 sacks + 2% $CaCl_2$ squeezed					
4. around bottom leaving 30 sacks + 2% $CaCl_2$ in casing. Additional 20 sacks +					
5. 2% $CaCl_2$ set around top.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
Plug 1	1375' - 1200'	Precambrian	40 Sks.	
Plug 2	370' - 270'	Lonely Bay	25 Sks.	Feel.

The following logs have been run IES, Borehole Compensated Sonic Gamma Ray, Formation Density
Other operations proposed Nil

Operations to be carried out by Great Plains Development Company of Canada, Ltd. Contractor Licence No. A11135
Address 736 9 8th Ave. S.W., Calgary Address 6820 - 103rd St. Edmonton, Alta.
Responsible Agent in field C. M. Hunter
Dated at Calgary this 27th Day of February 68
Signed by N. M. Lehto *N M Lehto* Company Great Plains Development Company of Canada, Ltd.
Title ..... Operator's Exploratory Licence No. 1069

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:

Confirming oral approval given by Mr. B.H.J. Thome on the 14th of February 1968.

Dated 29th February, 19 68 *B.H.J. Thome*
Oil Conservation Engineer

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

IAND 52-90 (5) (3-67)

Drilling Authority No. 27

Project No.

File No.

CANADA

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 B-41

Location: Unit B Section 41 Grid 61° 50'; 116° 45'

Latitude 61° 40' 05" Longitude 116° 53' 15"

From Established Reference Marker 1,015' S. 816' W. of N.E. corner Unit B Sec. 41

Universal Well Location Reference

Elevation: Ground K.B. feet above sea-level.

Well is expected to produce from Lonely Bay Formation formation at a depth of about 800 feet. Expected total final depth

Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 4,496 Lease No. Acreage 50,522

Permittee, licensee, or lessee Northern Oil Explorers Ltd.

Exploratory Licence No. 1088

Surface owned by Crown or Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by Northern Oil Explorers Ltd.

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	150	60 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 series B.O.P.'s to control all formations below surface casing.

Well will be drilled with Rotary Rig No. 1 by Baldwin & Knoll Ltd.
(Drilling Contractor or company)

Edmonton, Alberta.

Responsible agent of applicant:— Contractor's business Licence No.

At well G. M. Hunter At registered office 6820 - 103rd Street,

Address 736 - 8th Ave. S.W., Calgary Address Edmonton, Alberta.

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

Dated at Calgary, this 26th day of January 19 68.

Signed by [illegible] Company Great Plains Development Company of Canada, Ltd.

Title Drilling Superintendent Operator's Licence No. 1049

(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

26th January 68

Dated 19 Oil Conservation Engineer

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

IAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER: 300341615011 6450

POOR COPY

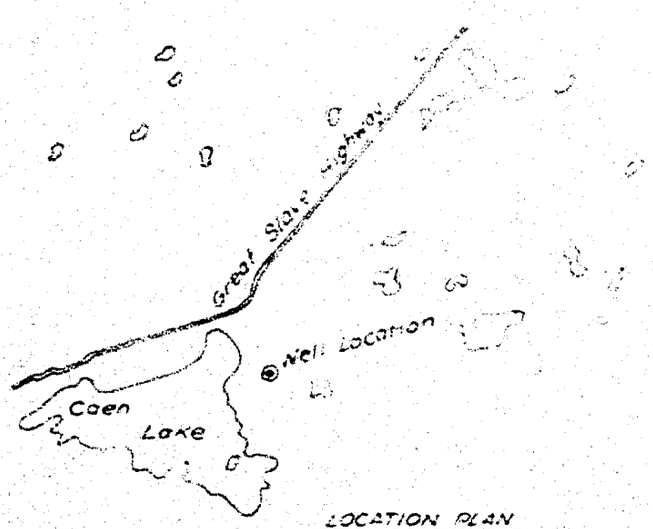
PRELIMINARY PLAN

GPD NOEL MILLS LAKE

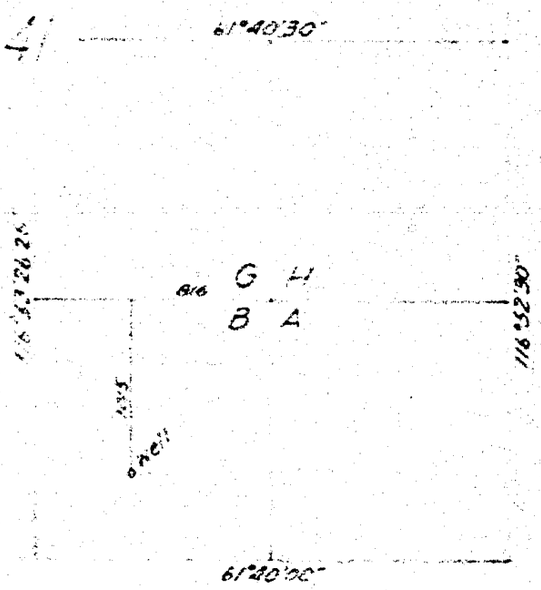
Unit B Section 41 Grid Area 61°50';116°45'

Latitude 61°40'05" Longitude 116°53'15"

NORTH WEST TERRITORIES



LOCATION PLAN
Scale 1" = 250,000



I certify that this plan is correct to the best of my knowledge and was completed on the 25th day of January, 1968

Dominion and Alberta Land Surveyor

Witness

MIDWEST SURVEYS CO. LTD.

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

C. M. Hunter. P. Geol.

ELEVATION: Ground

CO-ORDS: Well is located 1015'S 816'W. of N.E. Cor. Unit B Sec 41

Scale 1000' = 1"
Triangulation Station: △
Well Location: ◉
Survey Monuments found shown thus: ●
" " planted " " : ○
Portions referred to outlined:
Distances are in feet and decimals:

C34B-68

DRILLING AND ABANDONMENT REPORT
OF
GPD NOEL MILLS LAKE B-41
IN

Unit B SECTION 41 GKID 61° 50' 116° 45'
LATITUDE 61° 40' 05.1 LONGITUDE 116° 53' 17.02

DRILLING AND ABANDONMENT REPORT

OF

GPD NOEL MILLS LAKE B-41

IN

UNIT B SECTION 41 GRID 61° 50' 116° 45'

LATITUDE 61° 40' 05.65" LONGITUDE 116° 53' 17.02"

GEOLOGICAL & EVALUATION
Resource Management Division
JUN 18 1968
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

Compiled By: George Betts
February, 1968

Signed By: M M Betts

Date: May 31 1968

SECTION I - SUMMARY OF WELL DATA

(a) Well Name and Number

GPD NOEL Mills Lake B-41
Unit B Section 41 Grid 61° 50' 116° 45'

(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

Lat. 61° 40' 05.65" N., Long. 116° 53' 17.02" W.
B41-61-50-116-45

(e) Co-ordinates

B.M. #66-T-111

(f) Permit or Lease Number

4496

(g) Drilling Contractor

Baldwin and Knoll Limited
6820 - 103rd Street, Edmonton, Alberta.
Rig No. 1 - Rotary type.

(h) Drilling Authority

297 January 26, 1968.

(i) Classification

Wildcat

(j) Elevation

Ground 694' K.B. 702'

(k) Spudded

11:00 P.M., January 30, 1968.

(l) Completed Drilling

February 13, 1968.

(m) Total Depth

1375'

(n) Well Status

Dry and abandoned

(o) Rig Released

February 15, 1968

(p) Hole Size

Surface	9 7/8"	-	0 - 318'
Main	6 1/4"	-	318 - Total Depth

(q) Casing - Surface

Ran and cemented 340' of 7", 20#, J-55 new casing. Landed at 318'. Cemented with 130 sacks of cement + 3% $CaCl_2$. Plug down at 1:30 A.M. Had to recement surface casing and used 100 sacks of cement + 4% $CaCl_2$. Mixed 11 bags + 100 lbs. Calcium for outside of surface pipe.

(r) Universal Well Location Reference

Lat. 61.66824° N.
Long. 116.88805° W.

(s) Unique Well Identifier

300B416150116450

GEOLOGY

Geology

SECTION II - GEOLOGICAL SUMMARY

(a) Formation Tops

Geological Tops	K.B. Depth	Subsea Elevation
Hay River Shale	260'	+ 442'
Lonely Bay	735'	- 33'
Chinchaga	910'	- 208'
Mirage Point	1134'	- 432'
Precambrian	1340'	- 838'

(b) Cored Intervals

February 6 - Core No. 1 319' - 370'. Cut 51', recovered 51' (Lonely Bay).

(c) Core Description

51' Shale - light to medium grey, dense, compact, micromicaceous, calcareous.

(d) Sample Description

30 - 90	Glacial Till: clay, sand, boulders, rocks, gravel. Sand - well rounded, poorly sorted, clear & reddish quartz. Igneous - granite etc., fragments. (Pea Gravel).
90 - 200	As above, predominantly medium to fine gravel with sand as above.
200 - 230	As above, pea gravel, pebbles ± 1/2" with sand.
230 - 260	As above, traces of limestone pebbles.
260 - 280	As above, with abundant black shale and light buff limestone cuttings.
280 - 300	Limestone cuttings more abundant, traces shale only. Limestone, light buff & grey, dense, samples highly contaminated with gravel. No shows.
300 - 310	Limestone, as above.

CORE #1 - 319' - 370'

319 - 370	Shale, light grey, dense, hard, calcareous, micomicaceous. 6" light buff shale at top.
370 - 400	Shale, as above.
400 - 580	Shale, as above. Trace darker grey shale.
580 - 600	Shale, dark grey & grey, brittle, trace petroliferous, very micaceous, pyritic a trace.
600 - 610	Limestone, a trace, light grey-buff, argillaceous and brownish, Limestone a trace. Petroliferous, fair cut with chlorothene.
610 - 620	Limestone, grey-brown & grey-buff, fine crystalline, dense, No apparent porosity. Non-fossiliferous. Good cut with chlorothene and fair fluorescence. Shale minor. One fossil (spine) noted, slightly argillaceous.
620 - 630	Limestone, as above, minor light grey-brown with brown limestone more abundant. Non-fossiliferous. Brown limestone is argillaceous, tough, trace of fluorescence only and cut. Non porous.

(d) Sample Description (Continued)

630 - 660	Limestone, brown, argillaceous, non-fossiliferous, non-fluorescent, non porous as above.
660 - 670	Limestone, as above with minor grey-brown Limestone, very hard drilling.
670 - 680	Shale, light grey-green, micromicaceous, minor limestone as above. Calcite. Limestone argillaceous.
680 - 690	Shale, calcite as above, grades to Limestone, non-fossiliferous, limestone argillaceous.
690 - 700	Shale, calcite to limestone, argillaceous, no shows, minor brown limestone.
700 - 720	Limestone, grey and medium grey, argillaceous, no shows, micromicaceous.
720 - 730	Shale, black, marker bed, micromicaceous, fossils abundant, slightly cut with chlorothene, trace fluorescence.
730 - 740	Shale, as above with trace limestone, pyrite. 2' limestone grey, very argillaceous, fossil fragments, impure, trace bitumen - good cut.
740 - 745	Shale, dark grey, very fossiliferous, very calcareous.
745 - 750	Limestone, grey & dark grey, bitumen with trace anhydrite. Section is becoming a very impure argillaceous limestone, mottled, fossils and bitumen.
750 - 760	Limestone, grey-brown, non-fossiliferous, argillaceous, slightly bitumen & grey-brown limestone, non-fossiliferous, trace petrol. No apparent porosity.
760 - 765	Limestone, grey-brownish, light & darker, dense, argillaceous, trace fossil fragments.
765 - 780	Limestone, as above with abundant crinoid stems, fragments, fair oil cut.
780 - 840	Limestone, grey-brownish, dense and fine crystalline, non-fossiliferous, non-porous and trace bitumen.
840 - 850	Limestone, grey-brown, argillaceous, non-fossiliferous, dense and minor fine crystalline,
850 - 870	Limestone, light grey brown predominant, very argillaceous, fine crystalline, no shows & non-fossiliferous, non-porous, light buff limestone minor, dense, no shows, non-fossiliferous, non-porous.
870 - 880	Limestone, dark grey-brown, cryptocrystalline, argillaceous, non-fossiliferous or porous.
880 - 890	Limestone, as above with abundant buff limestone, fine crystalline to sucrose, trace white sucrosic limestone with intercrystalline pin-point porosity, very good cut of petrol.
890 - 895	Limestone, light grey buff, rather dense, limestone, white-buff sucrose with pin-point intercrystalline dolomitic porosity. Good fluorescence and cut. Non-fossiliferous. Oil staining in abundant cuttings.
895 - 900	Dolomite, grey-buff & brown, tight, dolomitic. Trace Anhydrite in veinlets & mineral crystals in fractures. Limestone cuttings show black to brown, fine fracture infilling & coatings, non-fossiliferous. No apparent porosity, trace of shows only.

(d) Sample Description (Continued)

900 - 910	Dolomite, buff, tight, cryptocrystalline, no shows, no porosity, non-fossiliferous, trace anhydrite.
910 - 915	Dolomite, as above, with +10% Anhydrite.
915 - 920	Dolomite & Anhydrite, as above.
920 - 950	Dolomite, grey brown, dense, tight, non-fossiliferous or porous, no shows. Trace anhydrite, calcareous and argillaceous.
950 - 960	As above, Anhydrite more abundant, quite calcareous
960 - 980	Anhydrite and Dolomite as above.
980 - 990	Dolomite and Anhydrite as above.
990 - 1000	Dolomite as above, minor anhydrite.
1000 - 1090	Anhydrite & Dolomite interbedded as above, Anhydrite predominant.
1090 - 1130	Anhydrite, trace Dolomite.
1130 - 1140	Anhydrite, minor pale reddish brown and white.
1140 - 1160	Anhydrite, reddish brown and white with trace red-brown stringers of Anhydritic shale, micromicaceous.
1160 - 1170	Red Shale (1162 - 460), with minor Anhydrite, trace green shale.
1170 - 1180	Shale, red micromicaceous.
1180 - 1260	Shale, red, micromicaceous, slightly calcareous.
1260 - 1270	Anhydrite, predominantly milky, non-calcareous.
1270 - 1280	Anhydrite, as above with traces (±3%) brown to dark brown Dolomite at 1278. Dolomite is sucrose (brown) with inter granular and fine vuggy porosity and dense, dark brown with fine vugs. Faint to fair cut, trace fluorescence.
1280 - 1285	Dolomite, as above, good porosity and shows, plus staining
1285 - 1290	Anhydrite, predominantly with Dolomite as above, 1-2%.
1290 - 1295	Anhydrite, predominantly with trace dolomite as above.
1295 - 1300	Dolomite, 75%, buff and brown, compact, tight, to fine crystalline. Argillaceous, faint trace cut.
1300 - 1304	Dolomite, as above 60%, Anhydrite 30%, Red-buff shale 10%.
1304 - 1310	Anhydrite, minor brown Dolomite 2-3%.
1310 - 1320	As above with 25% light grey-bluish green dolomitic shale, calcite, trace red shale.
1320 - 1330	Shale, grey-green 75%, red Shale 25%.
1330 - 1338	Shale, red 75%, grey-green 25%, trace Anhydrite.
1338 - 1350	Granite Wash 5%, mottled red-white-black. Reddish feldspar, black ferro & micaceous, white and clear quartz grains.
1350 - 1355	Granite Wash as above with well rounded quartz grains, traces red & green shale cuttings.
1355 - 1360	As above, with trace dolomite and anhydrite and well rounded quartz grains.
1360 - 1365	As above, with white Dolomite and trace Anhydrite and red shale, no grains of quartz.
1365 - 1375	As above, with white Dolomite and trace Anhydrite and red shale.
	Last two samples, fine fracture infill, slightly limey Anhydrite.
1375	As above, with white fracture veinlet, infilling abundant and conditioning.

CASING and TUBULAR REPORT

Casing

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

CASING INFORMATION

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

Well GPD NOEL MILLS LAKE B41 Location B 41 60° 50' 116° 45' Date February 2, 1968

Joints on Location	Feet on Location	Casing Weight	Grade	Range	Thread	Threads & Couplings	Make	Joints Run	Depth Landed	Feet Run in Well
15	616.39	20#	J-55	3	8Rd			8	328.00	340.00

Shoe: Make Davis Type Guide #600 Length 1.00

Collar: Make Davis Type Float #700 Length 1.35

Landing Joint (when used) Length 41.32

Overall Length of Casing String 342.35

Feet up from K.B. (Subtract) 24.35

Setting Depth: 318.00 By Driller By Tally 318.00

Shoe Joint: 42.09 Overall (Subtract) 42.09

Float Collar Landed: 275.91 By Driller By Tally 275.91

CENTRALIZERS:

Make B & W

Number 1

Positions Middle of Jt. #1

SCRATCHERS:

Make B & W

Number 1

Positions Five feet from the end of Jt. #1

No. of Joints Welded 2 Jts. of casing

Remarks

Operator's Representative

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

RUNNING AND CEMENTING

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

GENERAL

Well GPD NOFL Mills Lake B41 Location B41 60° 50' 116° 45' Date February 2, 1968

K.B. Elevation _____ K.B. Csg. Flange 7.02 Total Depth (Driller) 318.00 K.B.

Hole Size	9 7/8"			Casing in Hole	310.00 G.L.		
Depth	318.00			Depth Set	318.00 K.B.		

Mud: Type Gel Wt. 9 Visc. 45 W.L. 8.5

B.O.P.'s 1 600 Series Hidrill

RUNNING

Power Tongs Rope & Tongs Torque: Max. 4 wraps Nom. 10" Min. _____

Time Pipe Started Feb. 2 - 10:00 p.m. Time on Bottom Feb. 3 - 12:30 a.m. Time Circ. 1 hour

Fill-up Points 200" Btm. by Casing 318.00 Ft. up from K.B. 12.75

Remarks _____

CEMENTING

Cement Co. Baldwin and Knoll Operator Ed McDonald Time on Location Permanent

Types & Quantities of Cement 130 sacks Portland Normal, 3% $CaCl_2$, 15# Slurry

Water ahead 5 Bbls. Mix Times: Start 1:30 a.m. Finish 1:45 a.m. Slurry Wt. 14.5#

Calc. Disp. _____ Bbls. Est. Disp. time 1.0 min. Mins. Start 1:45 A.M Finish 1:55 A.M.

Max. Pumping Press. 500 Bump. Press. 500 Bumped by Water No. times bump. Once

Cement Returns: Yes/No. Remarks Yes

LANDING

Time Landed 1:30 Date February 2, 1968 Init. Wt. of Cem. String (Less Blks.) _____

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

Slip and Seal Assembly _____ Remarks _____

Operator's Representative Wm. F. Wuest

DRILL STEM TEST REPORT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DRILL STEM TEST REPORT

Well: GPD NOEL Mills Lake B41 Test No. 1 Date: February 10, 1968

Testing Company: Johnston Operator: Don Greenwall

Formation Tested: Lonely Bay Depth of Well: 915'

Interval Tested from: 850 to 915 Hole Size: 6 1/4" Rat Hole Size:

Drill Pipe Size: 3 1/2" I.F. No. & Size Drill Collars Run: 7 - 3 1/2" I.F.

Type of Mud: Gel Chem Weight: 9.4 Viscosity: 40 Water Loss: 8.8

Type of Test Run: Bottom Hole No. & Size Packer Rubbers: One - 5 1/2"

Choke Size: Surface: 2" Bottom Hole: 1/2" Safety Joint: Yes Jars: Yes P.O. Sub: Yes

Time Tester Started in Hole: 1:45 A.M. On Bottom: 3:30 A.M.

When tool opened did mud level drop: No

Initial Shut In Time: 60 min. Final Shut In Time: 60 min. Valve Open Time: 60 min.

Packer Set with: 20,000 #. Pulled Loose With: 10,000 #. Time Tester Out of Hole: 8:00 A.M.

Blow Description: G.I.P. to 0"

Recovered: 5' Mud feet stands

Recovery Description: 5' Drilling Mud feet of

feet of feet of

Salinity Test: 1200

Samples Sent to: By:

GAS FLOW MEASUREMENTS

Method of Measurement: T.S.T.M.

Time	Reading (Inches)	Mcf/Day

Gas Sample Sent To: None taken

Field Interpretation		
Pressures	Top Chart	Bottom Chart
I.H.P.		438.0
F.H.P.		438.0
I.F.P.		25.0
F.F.P.		31.0
I.S.I.P.		269.0
F.S.I.P.		106.0
B.H. Temp.		

Do you consider test satisfactory: Yes

Remarks:

Operator's Representative: Wm. F. Wuest

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness	Ft.
Interval	880 To 915	T.D	915
Type of Test	OPEN HOLE, BOTTOM HOLE		
Time Started in Hole	0145 Hrs.	Tool Opened	0357 Hrs.
First Flow	5 Min	Shut In	60 Min.
Second Flow	60 Min	Second Shut In	Min.
Third Flow	Min	Final Shut In	60 Min.
Pulled Loose at	0702 Hrs	Out of Hole	0800 Hrs.
Wt. Set on Packers	20,000 #	Pulled Loose Wt	10,000 #

Description of Blow During Test

VERY WEAK BLOW THROUGHOUT TEST

FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☐

Total Fluid Recovered 5' Ft.

Description of Fluid Recovered

5' DRILLING FLUID

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading Inches	Cubic Feet/Day

REMARKS: TEST SATISFACTORY

MUD PIT SAMPLE, FILTRATE: CHLORIDE CONTENT 1200 PPM

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	1.70	
P.O. SUB.	1.00	
SUB.	.85	
SHUT-IN TOOL	6.00	
MFE TOOL	10.05	
BYPASS TOOL	3.50	
SAFETY JOINT	1.75	
JARS	7.10	
S.S. & PACKER	8.00	
TOTAL	39.95	
STUB.	1.00	
RECORDERS (2)	8.80	
PERF.	24.00	
B.N. & PERF.	1.00	
TOTAL INTERVAL	34.80	
TOTAL LENGTH	74.75	

Elevation NOT REPORTED

Bottom Hole Choke Size 1/2"

Fluid Cushion Type Amt.

MUD AND HOLE DATA

Mud Type GEL. & CHEM. W.L. 8.5

Filter Cake 2/32 Visc. 40 Wt. 9.4

Time Taken

Contractor BALDWIN & KNOLL DL G Rig No. 1

Drill Pipe Size 3-1/2" IF

Drill Collar Size 2" ID Length 204.20'

Main Hole Size 6-1/8"

Rat Hole Size

District HIGH LEVEL Ticker No. D-00437 Date FEB. 10, 1968 Test No. 1 J.T.L. No. 1

Company GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD. Address 736 - 8TH AVENUE S.W. CALGARY, ALBERTA 5TH FLR.

Well Name GPD NOEL MILLS LAKE B-41

Number #61°-40'-05".65 N-116°-53'17.02" W Field WILDCAT Province N.W.T.

Formation and Interval 880-915 DST#1 Co. Rep. W. WUEST

Technician D. GREENWALL

Distribution of Reports 5 -- CALGARY 1 -- DATA CENTER (ENCLOSED)

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No		AK1-1847	AK1-2087		
CAPACITY (psig)		2100	2500		
INSTRUMENT DEPTH		881	885		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.		89°	89°		
INITIAL HYDROSTATIC	A	434#	436#		
FIRST FLOW	B	13#	15#		
	B1	17#	20#		
INITIAL SHUT-IN	C	265#	267#		
SECOND FLOW	D	22#	24#		
	D1	27#	30#		
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G	100#	101#		
FINAL HYDROSTATIC	H	431#	434#		

FIELD REPORT No. D-00437

TIME DATA

TIME GIVEN	TIME COMPUTED
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
CLOCK TRAVEL	IN/MIN.

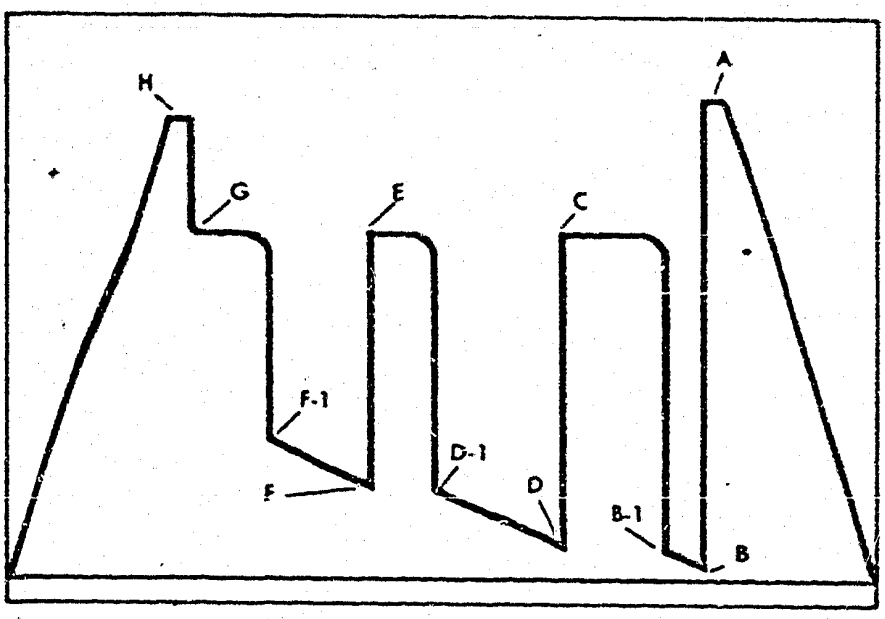
REMARKS:

PRESSURE INCREMENTS

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

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



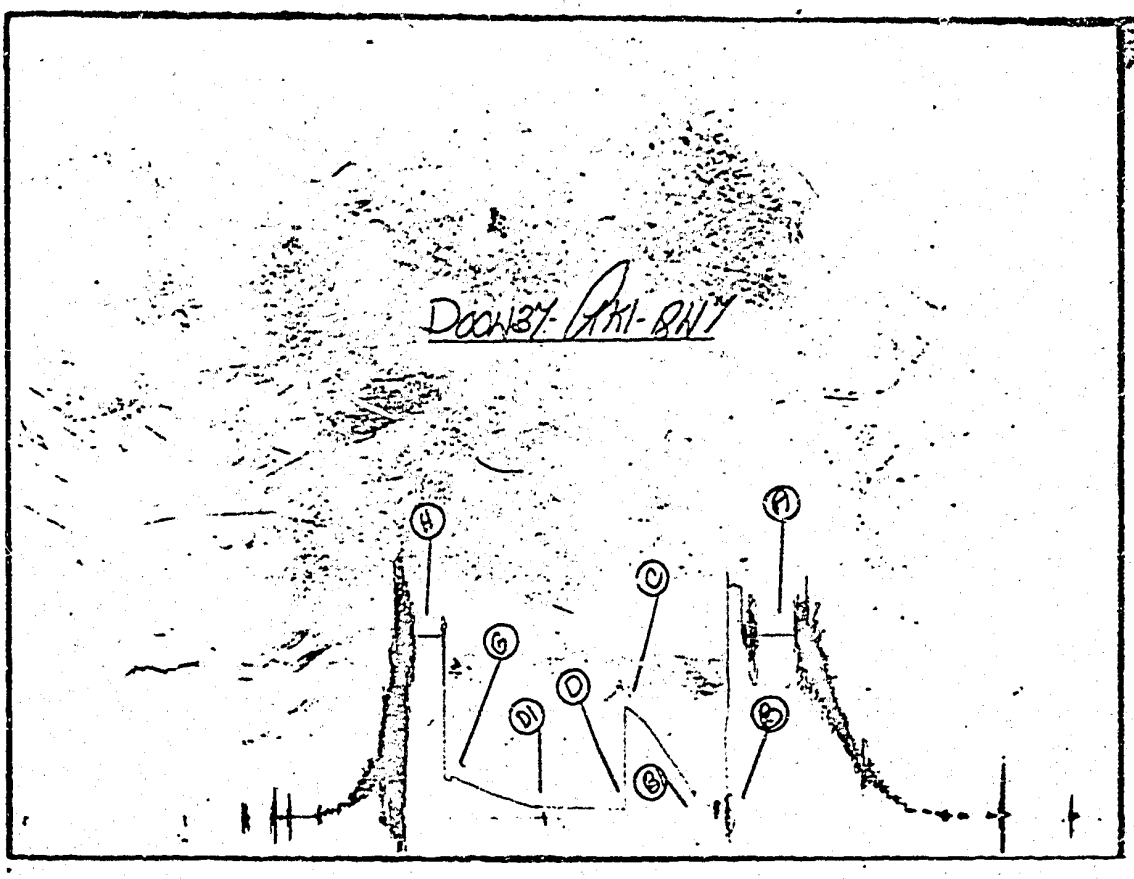
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

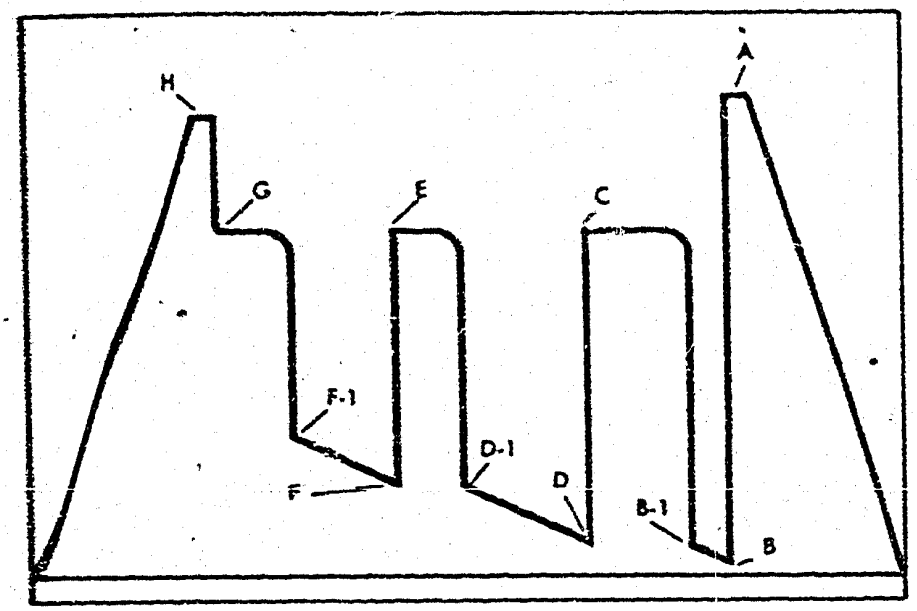
FIELD REPORT NO	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D-00437	AK1-1847	2100	6



JTL1A-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



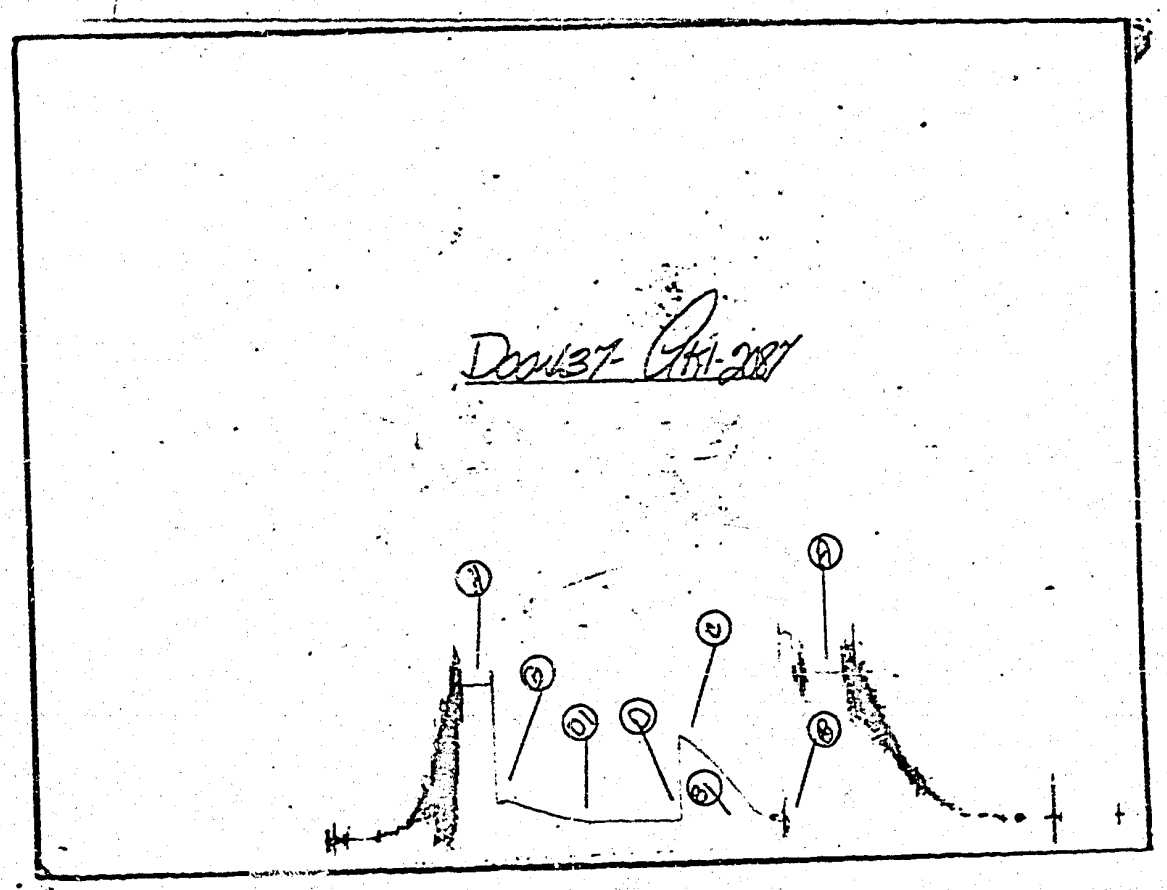
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D-00437	AK1-2087	2500	6



GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD. P-8

DRILL STEM TEST REPORT

Well GPD NOEL Mills Lake B41 Test No. 2 Date February 13, 1968

Testing Company Johnston Testers Ltd. Operator Don Greenwall

Formation Tested Depth of Well 1304

Interval Tested from 1207 to 1304 Hole Size 6 1/4 Rat Hole Size

Drill Pipe Size 3 1/2 I.F. No. & Size Drill Collars Run 7, 3 1/2 I.F.

Type of Mud Gel Chemical Weight 9.6 Viscosity 42 Water Loss 11.2

Type of Test Run Bottom Hole No. & Size Packer Rubbers 1, 5 1/2"

Choke Size: Surface 2" Bottom Hole 1/2 Safety Joint Yes Jars Yes P.O. Sub Yes

Time Tester Started in Hole 8:00 P.M. On Bottom 9:30 P.M.

When tool opened did mud level drop No

Initial Shut In Time - min. Final Shut In Time - min. Valve Open Time 1 hr. 40 min.

Packer Set with 20,000 #. Pulled Loose With 10,000 #. Time Tester Out of Hole 1:00 A.M.

Blow Description: G.I.P. fair blow, dead 5 mins.

~~Recovered:~~ 6 feet stands

Recovery Description: feet of

6 feet of salty mud feet of

Salinity Test: 89,000 P.P.M. Cl

Samples Sent to: Calgary By: W. F. Wuest

GAS FLOW MEASUREMENTS

Method of Measurement: -

Time	Reading (Inches)	Mcf/Day

Field Interpretation		
Pressures	Top Chart	Bottom Chart
I.H.P.		706
F.H.P.		706
I.F.P.		19
F.F.P.		19
I.S.I.P.		-
F.S.I.P.		-
B.H. Temp.		68°

Gas Sample Sent To:

Do you consider test satisfactory:

Remarks: Not conclusive, no shut ins. Valve appeared to be closed, but was open 140 mins. Conclusive as far as flow concerned.

Operator's Representative Wm. F. Wuest

JTL-CO-4A

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness	Ft.
Interval	1270 To 1304	T.D.	1304
Type of Test	OPEN HOLE, BOTTOM HOLE		
Time Started in Hole	2000 Hrs.	Tool Opened	2150 Hrs.
First Flow	140 Min.	Shut In	Min.
Second Flow	Min.	Second Shut In	Min.
Third Flow	Min.	Final Shut In	Min.
Pulled Loose At	2330 Hrs.	Out of Hole	0100 Hrs.
Wt. Set on Packers	20,000 #	Pulled Loose Wt.	10,000 #

Description of Blow During Test

FAIR BLOW, DEAD IN 5 MINS.

FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered 6' Ft.

Description of Fluid Recovered

6' SALTY MUDDY WATER

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size. Choke	Reading Inches	Cubic Feet/Day

REMARKS: MISRUN, NO SHUT-IN PRESSURE OBTAINED.

RECOVERY WATER: CHLORIDE CONTENT 89,000 PPM

MUD PIT SAMPLE, FILTRATE: CHLORIDE CONTENT 78,000 PPM

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	1.70	
P.O. SUB.	1.00	
SUB.	.85	
SHUT-IN TOOL	6.00	
MFE TOOL	10.05	
BYPASS TOOL	3.50	
SAFETY JOINT	1.75	
JARS	7.10	
S.S. & PACKER	8.00	
TOTAL	39.95	
STUB.	1.00	
PERF.	5.00	
RECORDERS (2)	8.80	
PERFS.	19.00	
B.N. & PERF.	1.00	
TOTAL INTERVAL	34.80	
TOTAL LENGTH	74.75	

Elevation NOT REPORTED

Bottom Hole Choke Size 1/2"

Fluid Cushion Type Amt.

MUD AND HOLE DATA

Mud Type GEL. W.L. 11.2

Filter Cake 2/32 Visc. 42 Wt. 9.6

Time Taken FEB. 12/68

Contractor BALDWIN & KNOLL DRLG Rig No. 1

Drill Pipe Size 3-1/2" IF

Drill Collar Size 2"ID Length 204.20'

Main Hole Size 6-1/4"

Rat Hole Size

District HIGH LEVEL Ticket No. D-00438 Date FEB. 13/68 Test No. 2 J.T.L. No. 2

Company GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD. Address 736 - 8TH AVENUE S.W. CALGARY, ALBERTA

Well Name GPD NOEL MILLS LAKE B-41

Number #61°-40'06.65"N-116°-53'17.02"W Field WILDCAT Province N.W.T.

Formation and Interval 1270-1304 DST#2 Co. Rep. W. WUEST Technician D. GREENWALL

Distribution of Reports 5 -- CALGARY 1 -- DATA CENTER (ENCLOSED)

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.	AK1-1847	AK1-2087			
CAPACITY (psig)	2100	2500			
INSTRUMENT DEPTH	1276	1280			
INSTRUMENT OPENING	OUTSIDE	OUTSIDE			
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.	68°	68°			
INITIAL HYDROSTATIC A	702#	703#			
FIRST FLOW B					
	MISRUN, NO SHUT-IN PRESSURES OBTAINED				
INITIAL SHUT-IN C					
SECOND FLOW D	20#	23#			
D1	23#	25#			
SECOND SHUT-IN E					
THIRD FLOW F					
FINAL SHUT-IN G					
FINAL HYDROSTATIC H	702#	703#			

FIELD REPORT No. D-00438

TIME DATA

	TIME GIVEN	TIME COMPUTED
B	MINS	MINS
C	MINS	MINS
D	MINS	MINS
E	MINS	MINS
F	MINS	MINS
G	MINS	MINS
CLOCK TRAVEL		IN/MIN.

REMARKS:

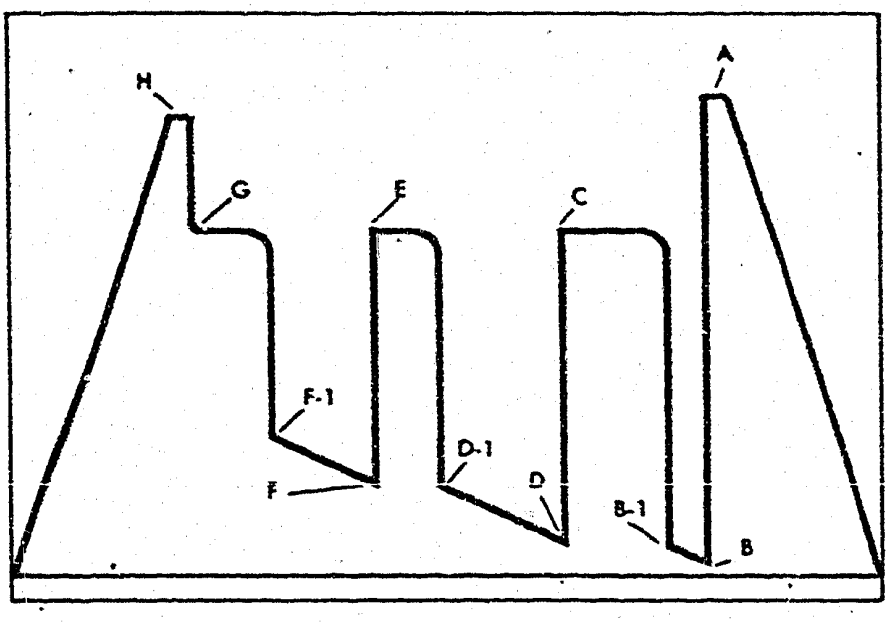
PRESSURE INCREMENTS

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

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



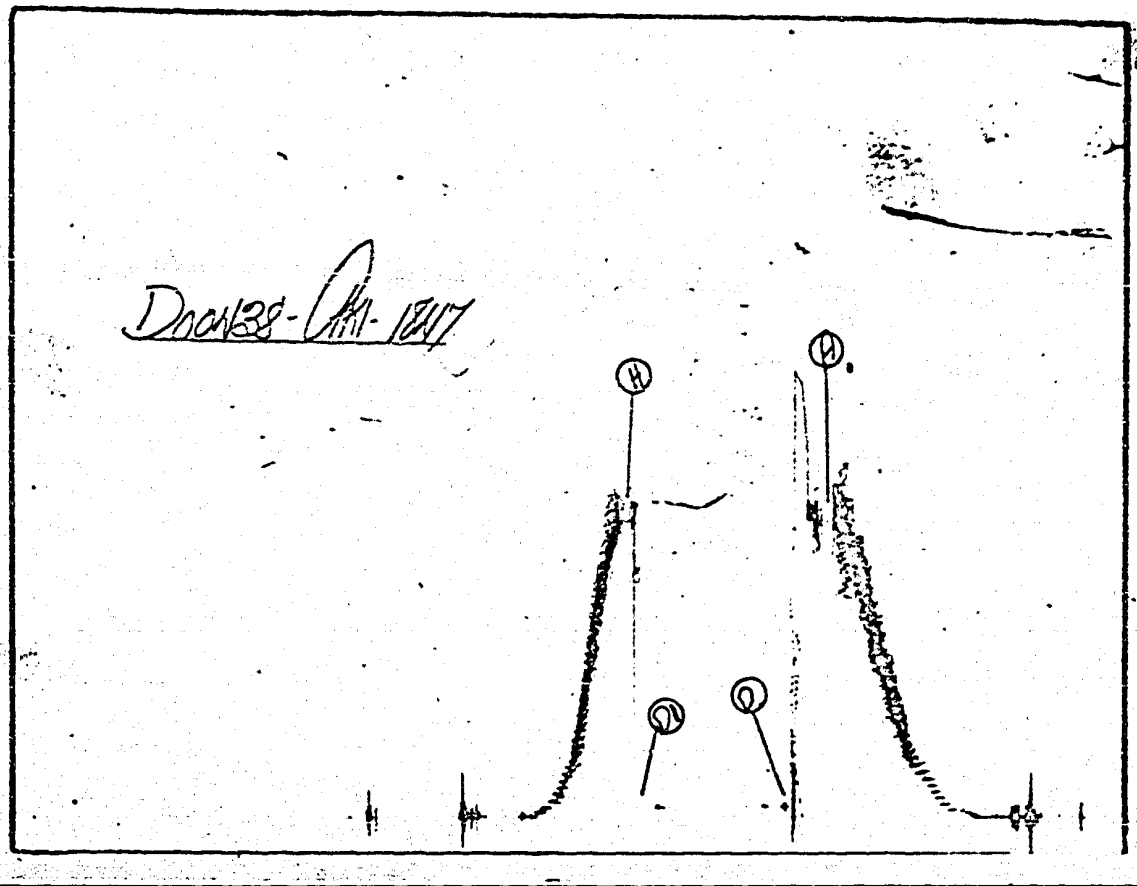
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

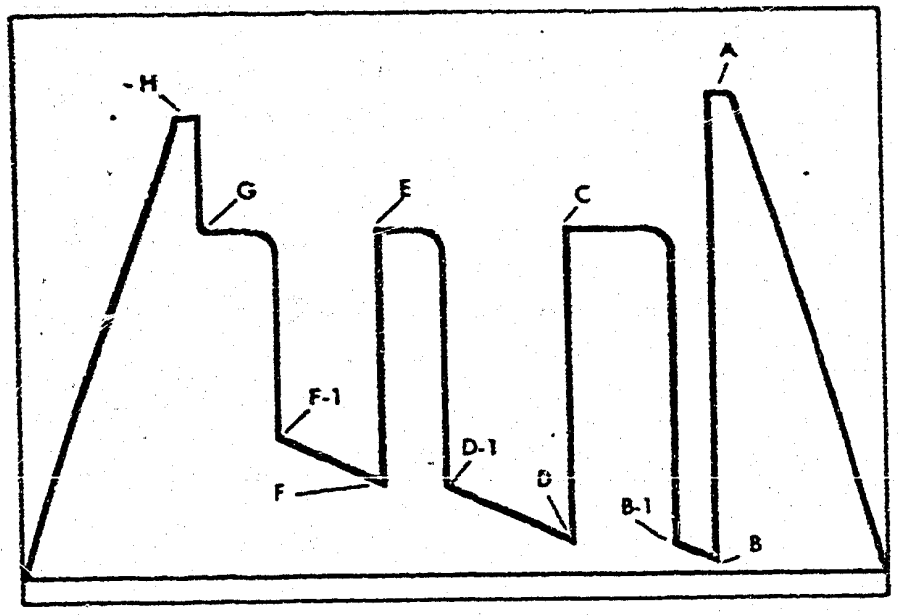
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D-00438	AK1-1847	2100	6



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

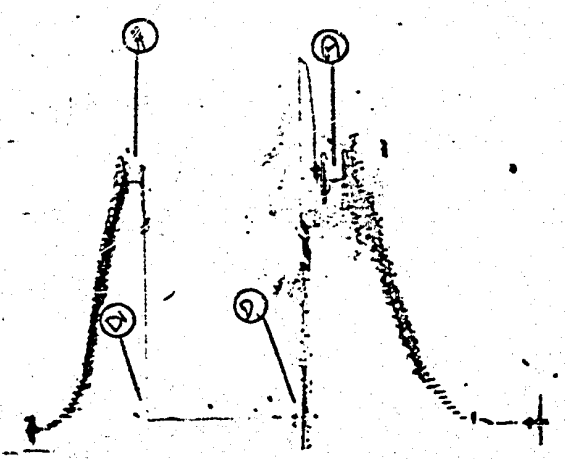
The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D-00438	AK1-2087	2500	6

D00438-AK1-2087



BIT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

BIT RECORD

Well GPD NOEL Mills Lake B-41 Field Mills Lake N.W.T.

Bit No.	Depth From	Depth To	Size	Make and Type	Footage	Hours Run	Remarks
1	0	65	6 1/4"		65	9 1/2	Pilot Hole
2	65	310	6 1/4"	S6	245		Dull
2A	310	320	9 7/8"	S3	10		Fair
3	319	370	6 3/16"	Diamond	51	9 3/4	
4	371	617	6 1/4"	YT3R	246	12 3/4	Good
5	617	755	6 1/4"	YTL	138	15 1/2	Dull
6	755	858	6 1/4"	Reed YSI	103	16 3/4	Dull
7	858	915	6 1/4"	Reed	57	11 1/2	Fair
8	915	1062	6 1/4"	M+N	147	20	Dull
9	1062	1245	6 1/4"	YSL	183	20	Dull
10	1245	1375	6 1/4"	YMR	130	10 1/4	Dull

DAILY MUD RECORD

Mud

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.

DRILLING MUD RECORD

WELL GPD NOEL Mills Lake B-41 AREA Mills Lake N.W.T.

MUD COMPANY Magcobar Mud of Canada SERVICE ENGINEER

Date	Depth 8:00 AM	Formation	Additives A	B	C	D	E	F	G	H	I	J
Jan. 29	0	Surf.	1400	75#								
Jan. 30	52	Glac. Till	800	50	100							
Jan. 31 Feb. 1	310) 318)	Lonely Bay										
Feb. 2	318	"	200	50	50							
Feb. 3	318	"										
Feb. 4	318	"				100 sacks						
Feb. 5	322	"	4300	250	500		25#	150				
Feb. 6	440	Hay R. Shale			100							
Feb. 7	690		1000				50	150				
Feb. 8	846						25					
Feb. 9	915	Chin-chaga	300	50				50				
Feb. 10	1062	"	600	50				65				
Feb. 11	1255	Red Shale	600	50			25	50				
Feb. 12	1320		200									
Feb. 13	1375	Pre-Camb.	50					50				
SUB-TOTAL												
TOTAL			9450	575	750	100	125	515				

A Gel D Cement G J

B Caustic E C.M.C. H

C Plaster F Peltex I

DAILY DRILLING RECORD

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DRILLING HISTORY

Date	Depth 8:00 AM	Hours Drilled	Mud Wt.	Mud Visc.	Mud W.L.	Mud pH	Surveys Depth	Surveys Dev.	Remarks
Jan. 30									Spudded well on Jan. 30, 1968
									and drilled 6 1/4" hole.
Jan. 31	52	9		45					Drilled 6 1/4" hole.
Feb. 1	310	10 1/4	9.5	56			95'	1/2°	Reamed surface hole to 9 7/8"
									Circulated hole clean.
Feb. 2	318	16		56			310'	0°	Ran and cemented 340' of 7",
									20#, J-55 new casing. Landed
									at 318'. Cemented with 130 sa
									cement + 3% $CaCl_2$.
Feb. 3									Cut off casing. Nippled up
									BOP's. Cement dropped. Mixed
									20 sacks cement placed at
									surface and drilled out shoe.
									Casing was loose in hole.
Feb. 4									Recemented casing with 100
									sacks cement + 4% $CaCl_2$.
									Squeezed 70 sacks of cement u
									around casing. Cemented arou
									casing at surface with 11 sac
									cement. Drilled out +100# Calcium 100' of
									cement inside casing, drilled
									out shoe. Pressured up blind
									rams.
Feb. 5									W.O.C. Circulated hole clean.
									Pulled out of hole. Made up
									core bbl.
Feb. 6	346	18	8.9	40	13.6	11			Cut Core #1 319-370'. Cut 51'
									Rec. 51'. Drilled 6 1/4" hole

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

DRILLING HISTORY

Date	Depth 8:00 AM	Hours Drilled	Mud Wt.	Mud Visc.	Mud W.L.	Mud pH	Surveys Depth	Surveys Dev.	Remarks
Feb. 7	440	19 1/4	9.5	48	15.2	11	453'	3/4°	Drilled 6 1/4" hole.
Feb. 8	690	21 1/4	9.3	38	9.2	8.5	604'	3/4°	Drilled 6 1/4" hole.
Feb. 9	846	19	9.4	37	10.6	11.0	755'	1/2°	Drilled 6 1/4" hole.
							738'	1/2°	
Feb. 10	915	11 1/2	9.4	36	15.6	10	858'	1/2°	Circulated hole clean. Pulled
									out. Connected testing tool.
									Ran DST #1 880'-915'. Rigged
									out tester & drilled 6 1/4" ho
Feb. 11	1062	20	9.4	40	15	11	958'	1/2°	Drilled 6 1/4" hole.
Feb. 12	1255	23	9.6	38	11.2	10			Drilled 6 1/4" hole.
Feb. 13	1320	10 1/2	9.6	40	15	10	1255'	1/2°	Circulated hole clean. Pulled
									out of hole. Connected testing
									tool. Ran DST #2 1270-1304'.
									Rigged out tester and drilled
									to T.D.
Feb. 14	1375		10.8	50	17	11	1304'	1/2°	Circulated hole clean. Ran a
									Borehole Compensated Sonic
									Gamma Ray w/Caliper 1370'-318'
									Formation Density Log 1371'-
									318' and an Induction Electric
									Log 1371'-318'.
Feb. 15									Ran Plug #1 1375'-1200'.
									Cemented with 40 sacks cement.
									No feel. Ran Plug #2 370'-270
									Cemented with 25 sacks cement
									+ 3% $CaCl_2$. Felt at 256'.
									Rig released.
									Ran Surface Pipe with 5 sacks. Welded on plate erected sign

CORE AND FLUID ANALYSIS

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.

CORING SUMMARY

Well: GPD NOEL Mills Lake B41

Location: N.W.T.

Coring Company: Johnston

Service Supervisor: Don Greenwall

Cored Intervals	Type Core	Core Diameter	Feet Rec'd.	Recovery %	R.P.M.	Pump Press.	Calc. Pumping Vol. GPM	Weight on Bit	Formation	Remarks
319 - 370	Diam.	2 1/4"	51	100	105	350	210	10,000	Shale	Core #1

P-7

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CSH-2-2715 Page 1 of 1

Company: Great Plains Development Company of Canada Ltd.

Well Name: GPD Noel Mills Lake B-41 Sample No.:

Formation: Chinchaga Depth: 1270' - 1304'

Location: 61°40'56.65" N.L. 116°53'17.02" W.L. Field: Mills Lake Area Province: N.W.T.

Date Sampled: Feb. 12/68 Date Analyzed: Feb 27/68 Analyst: M.B.

Sampled From: DST #2 (Above Tool) By:

Recovery: 6' Muddy Salt Water Elevation: K.B. - 702'

Constituents:

1. Total Solids 203,190 mg/liter 2. pH 10.20 3. Sp.Gr. 1.1367 @60°F.

4. Resistivity 0.046 Ohm-meters @ 80 °F 5. H_2S Absent

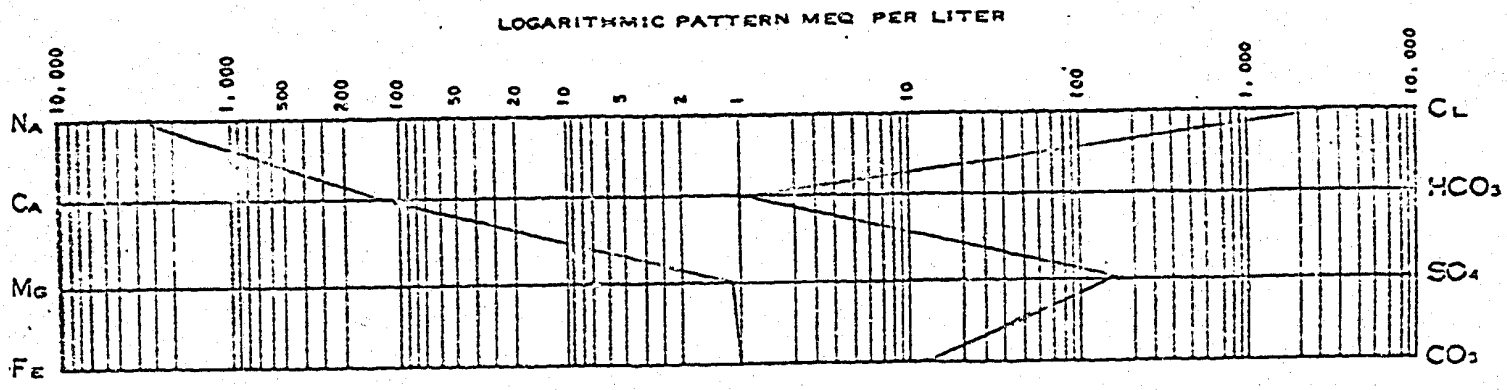
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
76,604	2,285	13	Abs.	Abs.		115,078	-	8,700	413	97	

MEQ PER LITER

3330.6	114.0	1.1	Abs.	Abs.		3245.2	-	181.0	13.8	5.7	

LOGARITHMIC PATTERN MEQ PER LITER



MISCELLANEOUS

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 B-41

Latitude 61° 40' 05"
Longitude 116° 53' 15"

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

Elevations: Ground - 739' Surv.
K.B. - 746' 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% $CaCl_2$. 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 #_____ 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:

North West Territories
Conservation Board - 10' samples Surface to T.D.
Great Plains - 10' samples Surface to T.D.

Mud Control:	Depth	Viscosity (Sec./Qt.)	Water Loss (cc/30 min.)	Remarks
	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.
	150 - 1,400	45 - 75	7 - 10	Water Dispersed Gyp base 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. Great Plains

Zones of Interest	Approximate Depth	Evaluation Procedure
Lonely Bay (Limestone)	300' to 700'	If reef buildup encountered, core entire section. If no reef developed, core carbonate platform of approx. 165'
Chinchaga	900'	Porous dolomites may develop here. Test if warranted. Core ahead if hydrocarbons are recovered.

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. to base of surface casing
	5" = 100'	
Borehole Compensated Sonic	2" = 100'	As above
Gamma Ray Log with Caliper	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 - Baldwin & Knoll Ltd.
Testing	Johnston Testers Ltd.
Diamond Coring	Johnston Testers Ltd.
Mud	Magcabor Mud of Canada
Logging	Schlumberger Canada Ltd.

Sample Lag Time: Samples are to be lagged as directed.

Telephone Numbers:

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

Data Requirements:

Company	Samples	Logs Field	Logs Final	Analyses Core	Analyses Fluid	DST Charts	Completion Report
GREAT PLAINS	Glass Vials	2	3	2	2	4	2
N. W. T. CONSERVATION BOARD	Sack	-	3	2	1	1	-
TOTAL:-		2	5	4	3	5	2

PROGNOSIS FOR GPD NOEL MILLS LAKE B-41

Latitude	61°	40'	69"
Longitude	116°	53'	15"

Ground Elevation	694.2	Surveyed
K. B. Elevation	702	Measured

Formation Top or Marker	Elevation	Interval	Depth
Bay River Shales	+ 442		260
		25	
Lonely Bay Limestone	+ 417		285
		175	
Chinchaga	+ 242		460
		490	
Mirage Point	- 248		950
		100	
Precambrian	- 348		1,050
		10	
TOTAL DEPTH:	- 358		1,060

Report No. MP5 TTU 1971

Report on 10 lots of conodont samples from the GPD Noel Mills Lake B41 well, 61°40'05"N, 116°53'17.02"W, cored interval 319'-370', sampled by T.T. Uyeno in 1971 at request of H.R. Belyea (NTS-85F).

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Western Paleontology Section, Calgary, for possible revision.

Cored interval	Conodonts	GSC Loc. No.
319'-325'	no conodont recovered	C-8917
325'-330'	*Polygnathus* cf. *P. xylus* Stauffer *Ozarkodina*? sp. (fragmentary specimen)	C-8918
330'-335'	*Hindeodella*? sp. (fragmentary specimen)	C-8919
335'-340'	no conodont recovered	C-8920
340'-345'	*Hindeodella*? sp. (fragmentary specimen)	C-8921
345'-350'	*Elsonella rhenana* Lindström & Ziegler (falcodus element) *Angulodus* cf. *A. demissus* Huddle *Icriodus symmetricus* Branson & Mehl *Hindeodella* sp.	C-8922
350'-355'	*Icriodus cymbiformis* Branson & Mehl indet. fragments	C-8923
355'-360'	indet. fragments	C-8924
360'-365'	*Polygnathus* cf. *P. xylus* Stauffer	C-8925
365'-370'	*Ozarkodina*? sp. (highly fragmentary specimen)	C-8926

Comments

Only C-8922 yielded biostratigraphically useful conodonts, and these are dated as very probably early Upper Devonian (lower part of the Lower *P. asymmetricus* Zone).

Weights of samples acidized:

C-8917 = 438 g.	C-8919 = 385 g.	C-8921 = 390 g.	C-8923 = 371 g.	C-8925 = 362 g
C-8918 = 356	C-8920 = 387	C-8922 = 368	C-8924 = 387	C-8926 = 444

T.T. Uyeno

Western Paleontology Section
Institute of Sedimentary & Petroleum Geology
Calgary, March 23, 1971

Feb. 15/68

OPERATOR: G.P.D. | LSD. 31 | SEC. 60 | TWP. 112° | RG. 34 | W. 3rd | WELL NAME: Noel Mills Lake B-41 | No. 2 | PROVINCE: N.W.T.

CONTRACTOR: BALDWIN & KNOLL LIMITED | RIG No. 1 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: L McLeod

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GD	FKE	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: John Lamont

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰ - 12³⁰ Hoist Pipe out of Plug
12³⁰ - 1⁰⁰ Run Plug No 2 (25 bag Cement)
1⁰⁰ - 5⁰⁰ Rig up Tohey down pipe & Collars.
Lay down Same.
5⁰⁰ - 8⁰⁰ Wait on Cement.
Run plug 370' - 270' = 25 sacs - 3% Calcl
15.8# slurry - displace with Mud
2% calcl

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Calcl	25 sacs		
20# Calcl			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰ - 9⁰⁰ - W.O.C
9⁰⁰ - 9¹⁵ - Run in open end felt top plug (a) 256 ft
9¹⁵ - 10¹⁵ - Lay Down DP + Kelly.
10¹⁵ - - Rig out

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: A. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4⁰⁰ 12⁰⁰ Rig out

Released

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

File 14168

OPERATOR: G.P.D.

31 50 W/19 34 30

WELL NAME: ROEL MILLS LAKE B-41 No. 2 PROVINCE: N.W.T

CONTRACTOR: BALDWIN & KNOLL LIMITED RIG No. 1

DRILL PIPE STRING NO. SIZE / TYPE THD. TOOL JOINT OD

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: Tony Donald

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	FAL	10'
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1200 - 1230 - Rig UP Schumberger.
1230 - 400 - Schumbergen Logging
400 - 430 - Rig out Schumbergen
430 - 800 - Wait on orders.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: L. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	TD	1375.00	KB									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 - 4:00 W.O. ORDERS.

Welder Mech Camp

Trucking Boiler

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: Clarence Blackstock

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	TD	1375.00	KB									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

~~4:00 8:00~~ W.O. ORDERS
~~8:00~~ 10:00 Run in HOLE W/ 3½ D.P. OPEN END ~~TO~~
Run PLUG NOW PICK UP 10 DRILL PIPE
12:00 10:45 CIRC
10:45 11:00 Run PLUG #1 40 ~~BAGS~~ CEMENT
8 BBL OF MUD TO DISPLACE
11:00 12:00 HOIST
40 sks cement - Displace Mud - TD -

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Inland	40 sks		

Feb 13/68

DATE

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G.P.D.	61	31	116	39	4/2	NOEL Mills Lake B-41	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD.
BALDWIN & KNOLL LIMITED	1		3½ OD	IF

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER

PUMPS NO.	MANUFACTURER
1.	G.D.
2.	
3.	

PUMPS	TYPE	STROKE LENGTH
	FXD	10

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	TO	PERFORATIONS FROM	TO	CEMENT USED	OTHER
	7	20	TU	318.80				
				310.81				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3	9¼	12
REAMING			3¼
CIRCULATING			4¼
TRIPS	1½		2
DEVIATION SURVEY		¼	¼
TEST B.O.P		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER Service	¼		¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING	3¼		
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
30	STANDS DP	912.23 FT.	RUN NO.	10
	SNGLS. DP	FT.	SIZE	6¼
13	D.C. 4¾ ID 2" OD	381.27	MFG.	Reed
		FT.	TYPE	YM-R
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	9/16
1	SUBS OD	1.79 FT.	SER. NO	263298
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	10¼
	KELLY DOWN	24.71 FT.	COND. OF BIT	1/1
	TOTAL	1320 FT.	REAMER CUTTER NO.	
WT. OF STRING		29M. LBS.	TYPE	Conventional

DRILLER L. Knoll

HRS. DRLD.	CORE NO.	FROM	TO
3		1304	13

DEVIATION RECORD:	DEPTH
	1255

12⁰⁰ - 1⁰⁰	Test.
1⁰⁰ - 1¹⁵	Rig Service
1¹⁵ - 3³⁰	Lay down Service Johnson Test eqp.
3³⁰ - 4¹⁵	Pick up six 4¾ Collars
4¹⁵ - 5⁰⁰	Service Rig
5⁰⁰ - 8⁰⁰	Drill 6¼ Hole

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
20		80	19M	100	5	74			

DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1½							

MUD RECORD			
TIME			7⁰⁰
WEIGHT			9.6
VISC			40
W.L.-C.C.			15
FLTR. CK.			9/32
PH			10.
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	10
32	SNGLS. DP	972.32 FT.	SIZE	6¼
13	D.C. 4¾ ID 2" OD	381.27	MFG.	REED
		FT.	TYPE	YM-R
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	SIZE	9/16
	SUBS OD	1.79 FT.	SER. NO.	263298
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	18
	KELLY DOWN	11.57 FT.	COND. OF BIT	
	TOTAL	1367.00 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER L. H. Hanna

HRS. DRLD.	CORE NO.	FROM	TO
7¾		1320	13

DEVIATION RECORD:	DEPTH

8⁰⁰ - 8¹⁵	
8¹⁵ - 4⁰⁰	
	- 4
	wa

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
67		100	20⁰⁰	100	5	74			

DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

MUD RECORD			
TIME			
WEIGHT	9.6	9.6	
VISC	40	46	
W.L.-C.C.	16	—	
FLTR. CK.	3/32		
PH	10		
SD. CONT.	Nil		

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
PELTEX	100#		
CAUSTIC	75#		

REMARKS

=	SERVICE RIG ✓ BOP'S
=	DRLG 6¼" HOLE.
10	
der	Mech Camp
	Boiler
ting	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	10
32	SNGLS. DP	972.32 FT.	SIZE	6¼
13	D.C. 4¾ ID 2" OD	381.27 FT.	MFG.	REED
			TYPE	YM-4
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	OPEN
	SUBS OD	1.79 FT.	SER NO	263298
	BIT OR C.B.	FT	DEPTH OUT	1375
		FT.	CUMULATIVE HOURS RUN	19½
	KELLY DOWN	19.62 FT.	COND. OF BIT	
	TOTAL	13.75 FT.	REAMER CUTTER NO.	
WT OF STRING		30M LBS.	TYPE	

DRILLER S. Blanchett

HRS. DRLD.	CORE NO.	FROM	TO
		1367	13

DEVIATION RECORD:	DEPTH

4⁰⁰ - 4¹⁵	
4¹⁵ - 4³⁰	
4³⁰ - 5¹⁵	
5⁰⁰ - 6¹⁵	
6³⁰ - 7¹⁵	
CORE BRL	
10 - 12	

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
25		100	25⁰⁰	100	5	74			

DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

MUD RECORD			
TIME			10⁰⁰ A.M.
WEIGHT			10.8
VISC			50.
W.L.-C.C.			11.
FLTR CK.			
PH			11
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
JEL.	6 BAG		
S. JEL	6 BAG		
6 000	6 BAG		
2 PEL.	1 BAG		

REMARKS

SERVICE Rig
DRLG 6¼
CIRC SAMPL
DRLG 6¼ HOLE) 6¹⁵ 6³⁰ CIRC
TAKE 15 STAND DUMPY JOURY LAY DOWN
7¹⁵ 10⁰⁰ CIRC TO COND HOLE MUD TO LOG
HOIST & STRAP OUT PIPE TO LOG

DATE FEB 12 '68

OPERATOR: G.P.D.

CONTRACTOR: BALDWIN & KNOLL LIMITED — RIG No. 1

LOCATION: LSD. 61 SEC. 31 TWP. 116 RGE. 39 W. 10

WELL NAME: NOEL Mills Lake B-41 — No. 2 — PROVINCE: N.W.T.

DRILL PIPE STRING NO. SIZE: 3½ — TOOL JOINT OD — TYPE THD. IF

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: Mac Donald

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GD	FXD	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20	TO	3 FE 30				
				3/0 GL				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¼	6½	3¼
REAMING			
CIRCULATING		2½	½
TRIPS		1	2½
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	¼	¼	¼
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			2¼
(D) TESTING			7¼
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	1032.4 FT.	RUN NO.	9
	SNGLS. DP	FT.	SIZE	6¼
7	D.C. ID / OD	204.20 FT.	MFG.	Reed
			TYPE	Y51
	RMR BODY OD	FT.	NOZ. NO.	OPEN
	STB BODY OD	FT.	SIZE	
1	SUBS OD	1.79 FT.	SER. NO	E47099
	BIT OR C.B.	FT.	DEPTH OUT	1255
		FT.	CUMULATIVE HOURS RUN	20¼
	KELLY DOWN	15.69 FT.	COND. OF BIT	
	TOTAL	1255.00 FT.	REAMER CUTTER NO.	
WT. OF STRING		23M LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO
7¼		1158	1255

FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
Red Shale	105	10M	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
856								
1255								

REMARKS

12⁰⁰ - 12¹⁵ R.g Service
~~12¹⁵ - 2⁰⁰ Sample~~ Drill 6¼ hole.
2⁰⁰ - 3⁰⁰ Circ Sample.
3⁰⁰ - 7⁰⁰ Drill 6¼ hole.
7⁰⁰ - 7¹⁵ Service
7¹⁵ - 8⁰⁰ Hoist Bit No 9.

MUD RECORD		
TIME	12 P.M.	3 AM
WEIGHT	9.6	9.7
VISC	36	38
W.L.-C.C.	17.4	
FLTR. CK.	2/32	2/32
PH	10	10
SD. CONT.		

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
GEL	200		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	10
35	SNGLS. DP	1062.87 FT.	SIZE	6¼
7	D.C. ID / OD	204.20	MFG.	REED
			TYPE	YM-R
	RM2 BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	SIZE	OPEN
1	SUBS OD	1.79 FT.	SER. NO.	263298
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	6¼
	KELLY DOWN	28.14 FT.	COND. OF BIT	
	TOTAL	1292.00 FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: L. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO
6¼		1255	1297

FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	150	15	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1255								

REMARKS

8⁰⁰ - 8¹⁵ Service Rig ✓ BOP's
8¹⁵ - 9¹⁵ Bit Trip
9¹⁵ - 9³⁰ Drlg 6¼" Hole
9³⁰ - 9⁴⁵ Circ Sample
9⁴⁵ - 2⁴⁵ Drlg 6¼ Hole
2⁴⁵ - 4⁰⁰ Welder Mech working — Bailey Camp

MUD RECORD		
TIME	10:30 AM	
WEIGHT	9.2	9.3
VISC	41	45
W.L.-C.C.		15.5
FLTR. CK.	2/32	2/32
PH		10.
SD. CONT.		

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Caustic	50#		
DFMEX	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	10
35	SNGLS. DP	1062.87 FT.	SIZE	6¼
7	D.C. ID / OD	204.20 FT.	MFG.	REED
			TYPE	Jm 4
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	~~FT.~~	SIZE	OPEN
	SUBS OD	1.79 FT.	SER NO	263298
	BIT OR C.B.	FT	DEPTH OUT	1304
		FT.	CUMULATIVE HOURS RUN	7¼
	KELLY DOWN	36.24 FT.	COND. OF BIT	1
	TOTAL	1304.00 FT.	REAMER CUTTER NO.	
WT OF STRING		25M LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO
		1297	1304

FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	150	15	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ - 4¹⁵ Service Rig
4¹⁵ - 5⁰⁰ Drlg 6¼ Hole
5⁰⁰ - 5³⁰ Circ to test
5³⁰ - 6³⁰ Hoist to test
6³⁰ - 7⁴⁵ Pick up testing tool — make up same
7⁴⁵ - 8⁴⁵ Run in hole slow w/ packer
8⁴⁵ - 9¹⁵ Heading up test tool
9¹⁵ - 11³⁰ Testing 113° - 120° pull on

MUD RECORD		
TIME	4 P.M.	5 P.M.
WEIGHT	9.6	9.6
VISC	42.	42
W.L.-C.C.		
FLTR. CK.	2/32	2/32
PH		
SD. CONT		

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

Ad 11

3150 N 1160 W 130

CONTRACTOR	A/C NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD
BALDWIN & KNOLL LIMITED	7		TYPE THD. IF

OPERATOR'S REPRESENTATIVE: CONTRACTOR'S TOOL PUSHER: [illegible]

WELL NAME	No.	PROVINCE
NOEL Mills Lake B-41	2	N.W.T.

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GD	F10	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20	TO	318.80	KB			
				310	GL			

TIME DISTRIBUTION—HOURS

	MDN	DAY	EVE
DRILLING ACTUAL	4½	6½	6
REAMING			
CIRCULATING			
TRIPS		1½	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG		½	1½
CORING			
WIRE LINE LOGGING			
OTHER			½
FISHING			
(a) COMPLETING (b) PERFORATING			
(c) RUNNING TUBING			
(d) SWABBING			
(e) TESTING			
(f) ACIDIZING			
(g) ADDITIONAL			
TOTALS			
TIME SUMMARY (OFFICE USE ONLY)			
CONTRACTOR'S TIME HRS:			
OPERATOR'S TIME:			
HRS. W/D.P:			
HRS. W/O/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.	

MORNING TOUR

DRILLING ASSEMBLY			BIT RECORD	
STANDS DP		FT.	RUN NO.	8
SINGLES. DP	22.98	FT.	SIZE	6¼
D.C. ID			MFG.	Sec
D.C. OD		FT.	TYPE	M4N
RMR BODY OD	2.50	FT.	NOZ. NO.	
SUB BODY OD		FT.	NOZ. SIZE	OPEN
SUBS OD		FT.	SER. NO	908802
BIT OR C.B.	1.79	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
KELLY DOWN		FT.	COND. OF BIT	2 2
TOTAL	25.03	FT.	REAMER CUTTER NO.	1/4 hole
WT. OF STRING	62,000	LBS.	TYPE	
DRILLER	A2M			

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
14		1011	1062	Lime Stone.	150	10M	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
655	½°							

REMARKS

12⁰⁰ - 12¹⁵	Rig Service
12¹⁵ - 3¹⁵	Drill 6¼ hole
3¹⁵ - 3⁴⁵	Unplug Flow Line
3⁴⁵ - 8⁰⁰	Drill 6¼ hole

MUD RECORD

TIME	12 P.M	7 AM
WEIGHT	10.2	9.4
VISC	42	40
W.L.C.C.		
FLTR. CK.		
PH		11.0
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GFL	600	CMC	25
~~Starch~~			
Caustic	50#		
PeITFA	50#		

DAY TOUR

DRILLING ASSEMBLY			BIT RECORD		
STANDS DP		FT.	RUN NO.	8	9
29 SINGLES. DP	882.02	FT.	SIZE	6¼	6¼
D.C. ID			MFG.	SEC	REED
9 D.C. OD	204.28	FT.	TYPE	M4N	VSI
RMR BODY OD		FT.	NOZ. NO		
SUB BODY OD		FT.	NOZ. SIZE	OPEN	OPEN
SUBS OD		FT.	SER. NO.	908802	E-1959
BIT OR C.B.	1.79	FT.	DEPTH OUT	1072	
		FT.	CUMULATIVE HOURS RUN	21	5½
KELLY DOWN	28.46	FT.	COND. OF BIT	2 2	
TOTAL	1115.00	FT.	REAMER CUTTER NO.		
WT. OF STRING		LBS.	TYPE		
DRILLER	P. H. Hanna				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		1062	1115		180	15	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰ - 8¹⁵	- Service Rig / B.O.P's.
8¹⁵ - 9¹⁵	- Drlg 6¼ Hole.
9¹⁵ - 10³⁰	- Bit Trip
10³⁰ - 4⁰⁰	- Drlg 6¼ Hole

Welder Mech. Boiler

Crew Pump

MUD RECORD

TIME	11 AM	2 P.M
WEIGHT	9.4	9.4
VISC	40	40
W.L.C.C.	13.8	11.4
FLTR. CK.	2/32	2/32
PH	10	11
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

DRILLING ASSEMBLY			BIT RECORD	
STANDS DP		FT.	RUN NO	9
31 SNGLS. DP	941.89	FT.	SIZE	6¼
D.C. ID			MFG.	REED
7 D.C. OD	204.28	FT.	TYPE	VSI
RMR BODY OD		FT.	NOZ. NO.	
SUB BODY OD		FT.	NOZ. SIZE	OPEN
SUBS OD	1.79	FT.	SER NO	E-1959
BIT OR C.B.		FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	13
KELLY DOWN	10.12	FT.	COND. OF BIT	1N
TOTAL	1158	FT.	REAMER CUTTER NO.	
WT OF STRING	23M	LBS.	TYPE	
DRILLER	Blackett			

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		11 15	11 58		180	15	100	5	74			

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ - 4¹⁵	Rig SERVICE
4¹⁵ - 5³⁰	DRLG 6¼
5³⁰ - 6⁴⁵	WORK on SWIVEL
6⁴⁵ - 12⁰⁰	DRLG 6¼ HOLE

MUD RECORD

TIME	8 P.M.	
WEIGHT	9.4 P.M.	
VISC	40.2	
W.L.C.C.	11.2	11.2
FLTR. CK.	2/32	
PH	10	10
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Fill Pipe

OPERATOR	LOC.	SEC.	TWP.	W.	WELL NAME	No.	PROVINCE
G.P.D.	10	31	50	11160	NOEL MILLS LAKE B-41	2	NWT

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
BALDWIN & KNOLL LIMITED	1	32		1F

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
	Employed

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GD	FYD	
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20	TO	318.80 KB				
				310.00 GL				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			1¼
REAMING			
CIRCULATING			
TRIPS	2¾	7¼	
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG Service		¼	
CORING			
WIRE LINE LOGGING			
OTHER	7½		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING	3½	2	
(E) ACIDIZING			
(F) ADDITIONAL		5	
TOTALS	8		5

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	7
23	SNGLS. DP		699.09 FT.	SIZE	6¼
7	D.C.	ID	204.20 FT.	MFG.	REED
		OD		TYPE	FT-R
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	OPEN
BIT	SUBS	OD	1.79 FT.	SER. NO	E17052
	BIT OR C.B.		FT.	DEPTH OUT	915
			FT.	CUMULATIVE HOURS RUN	11½
	KELLY DOWN		9.92 FT.	COND. OF BIT	
	TOTAL		915.00 FT.	REAMER CUTTER NO.	
WT. OF STRING			23 M LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO
5¾		879	915

DEVIATION RECORD: DEPTH

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
15									

DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

SERVICE RIG.
MAKE UP TEST TOOL.
RUN IN HOLE SLOW, W/ PACKER
RIG UP TO TEST
345 TO TESTING.
BREAK DOWN TESTING HEAD CHICKSANDS
PULL PACKER

MUD RECORD		
TIME		730
WEIGHT		8.8
VISC		40.
W.L.-C.C.		
FLTR. CK.		2/32
PH		
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
24	STANDS DP		FT.	RUN NO.	
	SNGLS. DP		FT.	SIZE	6¼
7	D.C.	ID	204.20	MFG.	Sec
		OD	FT.	TYPE	M4N
	RMR BODY	OD	FT.	NOZ. NO	OPEN
	STB BODY	OD	FT.	SIZE	
1	SUBS	OD	1.79 FT.	SER. NO.	908802
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	5
	KELLY DOWN		13.14 FT.	COND. OF BIT	
	TOTAL		944.00 FT.	REAMER CUTTER NO.	
WT. OF STRING			24 M. LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO
5		915	949

DEVIATION RECORD: DEPTH 855

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
949	Lime Stone	180	10M	100	5	74			

DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2°							

REMARKS

8⁰⁰ – 9⁰⁰ – Pulled Packer & Laiyed Down Same.
9⁰⁰ – 9¹⁵ – Rig Service
9¹⁵ – 10⁰⁰ – Service Packer & Rig out Johnson Test
10⁰⁰ – 11⁰⁰ – Run in & Break Circ.
11⁰⁰ – 4⁰⁰ – Drill 6¼ hole.

MUD RECORD		
TIME		1 PM
WEIGHT		9.4
VISC		36
W.L.-C.C.		15.6
FLTR. CK.		2/32
PH		10
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Mud	600#		
Pelex	50#		
Caustic	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	8
26	SNGLS. DP		790.52 FT.	SIZE	6¼
7	D.C	ID		MFG.	SEC
		OD	204.20	TYPE	M4N
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	OPEN
1	SUBS	OD	1.79 FT.	SER NO	908802
	BIT OR C.B.		FT	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	12¾
	KELLY DOWN		11.49 FT.	COND. OF BIT	Rundle
	TOTAL		1011.00 FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: L. H. Hansen

HRS. DRLD.	CORE NO.	FROM	TO
7¾		949	1011

DEVIATION RECORD: DEPTH

TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
11		180	10000	100	5	74			

DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ – 4¹⁵ – Service R.G
4¹⁵ – 12⁰⁰ – Drlg 6¼" Hole.

MUD RECORD			
TIME		730	11PM
WEIGHT		9.8	9.7
VISC		40	42
W.L.-C.C.		16.5	
FLTR CK.		2/32	
PH		10	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	1#		

Moldy Mech

Bailey

OPERATOR	LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G.P.D	6/0	31	50	1160	39	W3	NOEL MILLS	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
BALDWIN & KNOLL LIMITED	1	2		IF

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	G.D.	EXD	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20	TO	318	80	KB		
				310	"	GL		

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	5¾	5¾
REAMING			
CIRCULATING			½
TRIPS		1¾	
DEVIATION SURVEY			
TEST B.O.P		¼	
CUT OFF DRILL LINE			
REPAIR RIG	¼		¼
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	6	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	6
20	SNGLS. DP	606.67 FT.	SIZE	6¼
7	D.C. ID / OD	204.20 FT.	MFG.	REED
			TYPE	YSI-R
	RMR BODY OD	FT.	NOZ. NO.	OPEN
	STB BODY OD	FT.	SIZE	
	SUBS OD	1.79 FT.	SER. NO	35607
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	14¾
	KELLY DOWN	FT.	COND. OF BIT	1N
	TOTAL	33.34 FT.	REAMER CUTTER NO.	
WT. OF STRING	8460	LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		798	846		180	1000	100	5	74			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰ - 12¹⁵ Rig SERVICE
12¹⁵ - 2⁴⁵ DRLG 6¼ HOLE
2⁴⁵ - 3⁰⁰ WORK ON SWIVEL
3⁰⁰ - 8⁰⁰ DRLG 6¼ HOLE

MUD RECORD			
TIME	1 AM	3 AM	7 AM
WEIGHT	8.4	9.4	9.4
VISC	39	42	43
W.L.C.C.	10.2	9.4	9.4
FLTR. CK.	2/32	2/32	2/32
PH	11	9	9
SD. CONT.			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	6	7
21	SNGLS. DP	637.67 FT.	SIZE	6¼	6½
7	D.C. ID / OD	204.20 FT.	MFG.	Reed	Reed
			TYPE	YSI-R	YTL-R
	RMR BODY OD	FT.	NOZ. NO		OPEN
	STB BODY OD	FT.	SIZE	OPEN	E47052
1	SUBS OD	1.79 FT.	SER. NO.	35607	
	BIT OR C.B.	FT.	DEPTH OUT	846	
		FT.	CUMULATIVE HOURS RUN	14¾	5¾
	KELLY DOWN	FT.	COND. OF BIT	1N	
	TOTAL	35.34 FT.	REAMER CUTTER NO.		
WT. OF STRING	819.00	LBS.	TYPE	6005 C	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		846	819	Shale, Lime stone	150	10M	100	5	74			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰ - 8¹⁵ R. Service
8¹⁵ - 10¹⁵ Drill 6¼ hole
10¹⁵ - 12⁰⁰ Rig Bit No. 6 (Sensey)
12⁰⁰ - 12¹⁵ Pressure Test Drill O.K.
12¹⁵ - Drill 6¼ hole

Welder Merly Bole
Trucking Camp

MUD RECORD			
TIME	9⁰⁰	1 P.M.	
WEIGHT	9.4	9.3	
VISC	37	37	
W.L.C.C.		10.6	
FLTR. CK.		2/32	
PH		8	
SD. CONT.			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.
Caustic 50#
PelTex 50#

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	7
23	SNGLS. DP	699.07 FT.	SIZE	6¼
7	D.C. ID / OD	204.20 FT.	MFG.	REED
			TYPE	YTL-R
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	OPEN
1	SUBS OD	1.79 FT.	SER NO	E47052
	BIT OR C.B.	FT	DEPTH OUT	912
		FT.	CUMULATIVE HOURS RUN	11½
	KELLY DOWN	9.92 FT.	COND. OF BIT	
	TOTAL	912.00 FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		819	912		180	15	100.	5	74			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4⁰⁰ - 10⁰⁰ Reduce Mud Hole
10⁰⁰ - 10¹⁰ Circ - Cond Hole To Test
10¹⁰ - 11⁰⁰ Hoist To Test
11⁰⁰ - 12⁰⁰ Pick up Packer + Make up

MUD RECORD			
TIME	5 P.M	7 PM	
WEIGHT	9.4	9.3	9.4
VISC	37	36	40
W.L.C.C.		9.8	9.1
FLTR CK.		2/32	2/32
PH		11	11
SD. CONT			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

Feb 8 / 66

OPERATOR: G.P.D.

CONTRACTOR: BALDWIN & KNOLL LIMITED

RIG NO.: 1

DRILL PIPE STRING NO. SIZE: 4½

TOOL JOINT OD: 3½0

TYPE THD.: IF

TWP.: 116 | RGE.: 34 | W.: 30

WELL NAME: NOLEMILLS LAKE B-4

No.: 2

PROVINCE: N.W.T.

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: Tony Sandell

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GD	FXD	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9	20	TO	3188	KB			
				310	GL			

TIME DISTRIBUTION—HOURS

	MDNIT	DAY	EVE
DRILLING ACTUAL	7	5	4½
REAMING		1	
CIRCULATING			
TRIPS		1½	½
DEVIATION SURVEY		1½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	4½		
CORING			
WIRE LINE LOGGING			
OTHER Service	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	19	8	

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
	STANDS	DP		RUN NO.	3
15	SNGLS.	DP	454.11	SIZE	6¼
7	D.C.	ID / OD	204.20	MFG.	REED
				TYPE	~~J-55~~ YTL
	RMR BODY	OD		NOZ. NO.	OPEN
	STB BODY	OD		SIZE	
	SUBS	OD		SER. NO	E47053
1	BIT OR C.B.		1.79	DEPTH OUT	
				CUMULATIVE HOURS RUN	8½
	KELLY DOWN		29.84	COND. OF BIT	IN
	TOTAL		690.00	REAMER CUTTER NO.	
WT. OF STRING				TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		635	690		180	4/5	100	5	70			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰ - 12¹⁵ Service Rig
12¹⁵ - 3⁴⁵ Drlg 6¼ Hole
3⁴⁵ - 4³⁰ Work on pump
4³⁰ - 8⁰⁰ Drlg 6¼ Hole

MUD RECORD

TIME	1 am	5 am	7 am
WEIGHT	9.2	9.1	9.1
VISC	42	41	40
W.L.-C.C.	10.2	10.1	10
FLTR. CK.	2/32	2/32	2/32
PH	11	11	11
SD. CONT.			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
18	STANDS	DP	540	RUN NO.	5
	SNGLS.	DP		SIZE	6¼
7	D.C.	ID / OD	204.20	MFG.	Reed
				TYPE	YTL
	RMR BODY	OD		NOZ. NO	
	STB BODY	OD		SIZE	OPEN
1	SUBS	OD	1.79	SER. NO.	E47053
	BIT OR C.B.			DEPTH OUT	750
				CUMULATIVE HOURS RUN	15½
	KELLY DOWN		30.00	COND. OF BIT	
	TOTAL		755.00	REAMER CUTTER NO.	
WT. OF STRING			20M	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7		690	755		105 RM	100		5	74			

DEVIATION RECORD: DEPTH 604 | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰ - 9⁰⁰ Drill 6¼ hole
9⁰⁰ - 9¹⁵ Rig Service & R.P.S
9¹⁵ - 3¹⁵ Drill 6¼ hole.
3¹⁵ - 3³⁰ Survey
3³⁰ - 4⁰⁰ Twist Bit Bad.

Welder Mech Bailey
Trucking Crane

MUD RECORD

TIME	9 am	1 pm	3 pm
WEIGHT		9.3	9.4
VISC	36	35	32
W.L.-C.C.		9.6	
FLTR. CK.		2/32	
PH		10	
SD. CONT.			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.	BIT RECORD	
	STANDS	DP		RUN NO	6
19	SNGLS.	DP	576.54	SIZE	6¼
7	D.C	ID / OD	204.20	MFG.	Reed
				TYPE	YLA
	RMR BODY	OD		NOZ. NO.	
	STB BODY	OD		SIZE	OPEN
1	SUBS	OD	1.79	SER NO	E46057
	BIT OR C.B.			DEPTH OUT	
				CUMULATIVE HOURS RUN	14½
	KELLY DOWN		15.50	COND. OF BIT	Rund 1/8
	TOTAL		798.00	REAMER CUTTER NO.	
WT OF STRING				TYPE	

DRILLER: J. H. Hanna.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
14		755	798		150	15	100.	5	74			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

1¹⁵ - 4¹⁵ - Service Rig
4¹⁵ - 4³⁰ - Run in w/ Bit #6
4³⁰ - 5¹⁵ - Drlg 6¼ Hole.

MUD RECORD

TIME	6 pm	9 pm	
WEIGHT	9.3	9.4	9.4
VISC	38	38	37
W.L.-C.C.		9.2	9.-
FLTR CK.		2/32	2/32
PH		8.5	8.5
SD. CONT			

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

Date 7/60

OPERATOR: G.P.D.

CONTRACTOR: BALDWIN & KNOLL LIMITED — No. 1

LOCATION: LSD. 6 — SEC. 31 — TWP. 50 — RGE. 16 — W. 27 31 4

WELL NAME: NOEL MILLS LAKE. B-41 — No. 2 — PROVINCE: N.W.T.

DRILL PIPE STRING NO. SIZE: 3½ — TOOL JOINT OD TYPE THD.: 1F.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	FXE	10
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: Roy Samuel

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4½	7½	6½
REAMING			
CIRCULATING			
TRIPS	1½		1
DEVIATION SURVEY		¼	½
TEST B.O.P		✓	
CUT OFF DRILL LINE			
REPAIR RIG		¼	
CORING	7		
WIRE LINE LOGGING			
OTHER Pump	½	¼	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F)- ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
	STANDS DP		FT.	RUN NO.	4	
7	SNGLS. DP		200.83	SIZE	6¼	
7	D.C.	ID		MFG.	REED	
		OD	204.20	TYPE	JT3-R	
	RMR BODY	OD	FT.	NOZ. NO.	R.R.	
	STB BODY	OD	FT.	NOZ. SIZE	OPEN	
1	SUBS	OD	1.79 FT.	SER. NO	461058	
	BIT OR C.B.		FT.	DEPTH OUT		
			FT.	CUMULATIVE HOURS RUN		
	KELLY DOWN		23.8 FT.	COND. OF BIT		
	TOTAL		440.00 FT.	REAMER CUTTER NO.		
WT. OF STRING			LBS.	TYPE		

DRILLER: E. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		371	440	318 – 371	100	15	150		74			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS #1

12⁰⁰ - 12³⁰ – Hoist Core
12³⁰ - 12⁴⁵ – Break Down Core Bll.
12⁴⁵ - 1⁰⁰ – Recover Core #1 318—371. Fill Rec.
1⁰⁰ - 2⁰⁰ – Service C.B. & Stand Back Same.
2⁰⁰ - 2⁴⁵ – Cond Mud.
2⁴⁵ - 3¹⁵ – Run in w/ 6¼ Bit
3¹⁵ - 3³⁰ – Work on Pump.
3³⁰ - 8⁰⁰ – Drlg 6¼" Hole.

MUD RECORD			
TIME	3 AM	6 AM	7.30 AM
WEIGHT	8.9	9.0	9.1
VISC	80	79	77
W.L.-C.C.	15.0	10.1	10.4
FLTR. CK.			
PH	11	10	10
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Pelter	2.B		
CMC	½ B		

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
	STANDS DP		FT.	RUN NO.	4	
12	SNGLS. DP		363 FT.	SIZE	6¼	
7	D.C.	ID		MFG.	Reed	
		OD	204.20 FT.	TYPE	YT3-R	
	RMR BODY	OD	FT.	NOZ. NO		
	STB BODY	OD	FT.	NOZ. SIZE	OPEN	
1	SUBS	OD	1.79 FT.	SER. NO.	461058	
	BIT OR C.B.		FT.	DEPTH OUT		
			FT.	CUMULATIVE HOURS RUN	11¾	
	KELLY DOWN		21.21 FT.	COND. OF BIT		
	TOTAL		590.00 FT.	REAMER CUTTER NO.		
WT. OF STRING			17 M LBS.	TYPE		

DRILLER: H. Lamont

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		440	590		135	5M		5"	74			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	453	3/4°							

REMARKS

8⁰⁰ - 9⁰⁰ – Drill 6¼ Hole
9⁰⁰ - 9¹⁵ – Rig Service + test B.O.P.S
9¹⁵ - 9³⁰ – Survey
9³⁰ - 9⁴⁵ – Work on pump.
9⁴⁵ – Drill 6¼ Hole.
welder Mesh Boiler
working Camp

MUD RECORD			
TIME	9⁰⁰	1 PM	3 PM
WEIGHT	9.2	9.3	
VISC	48	65	40
W.L.-C.C.		15.2	
FLTR. CK.		2/32	
PH		11.	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000#		
Pellex	50#		
Caustic	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
	STANDS DP		FT.	RUN NO	4	5
13	SNGLS. DP		393.84 FT.	SIZE	6¼	6¼
7	D.C	ID		MFG.	REED	REED
		OD	204.20 FT.	TYPE	YT3-R	YTL
	RMR BODY	OD	FT.	NOZ. NO.	OPEN	OPEN
	STB BODY	OD	FT.	NOZ. SIZE		
1	SUBS	OD	1.79 FT.	SER NO	461058	E47653
	BIT OR C.B.		FT	DEPTH OUT	617	
			FT.	CUMULATIVE HOURS RUN	16¾	1½
	KELLY DOWN		35.84 FT.	COND. OF BIT	Dull	Rang
	TOTAL		635.65	REAMER CUTTER NO.		
WT OF STRING			18000 LBS.	TYPE		

DRILLER: E. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		590	635		180	15M	100	5	74			

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	604	3/4							

REMARKS

4⁰⁰ - 5³⁰ – Drlg 6¼" Hole
5³⁰ - 6⁰⁰ – Service Rig Se Fy @ 604 3/4°
6⁰⁰ - 9³⁰ – Drlg 6" Hole.
9³⁰ - 10⁰⁰ – Bit Trip
10⁰⁰ - 12⁰⁰ – Drlg 6" Hole.

MUD RECORD			
TIME	5⁰⁰	8⁰⁰	11⁰⁰
WEIGHT	9.5	9.4	9.2
VISC	37	34	32
W.L.-C.C.	13.	13.6	
FLTR. CK.	2/32	2/32	
PH	11.	11	
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CMC	25#		
Caustic	25#		
Pellex	100#		

DA FEB 6/80

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	WELL NAME	No.	PROVINCE
	6-10	2-10	1160	32	NOEL MILLS LAKE B-41	2	N.W.T.

CONTRACTOR: G.P.D. BALDWIN & KNOLL LIMITED — RIG No. 1 — DRILL PIPE STRING NO. SIZE 5 1/2 — TOOL JOINT OD — TYPE THD. IF

OPERATOR'S REPRESENTATIVE — CONTRACTOR'S TOOL PUSHER

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	G.D	FXD	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	7	20	To	3195	KB			
		-		310	GL			

TIME DISTRIBUTION—HOURS

	WORK	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	2		
TRIPS	1 1/2		
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING	14	8	8
WIRE LINE LOGGING			
OTHER	1/2		
REAMING			
COMPLETING (A) PERFORATING			
(B) RUNNING TESTING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
2	STANDS	DP	FT.	RUN NO.	
	SNGLS.	DP	89.81 FT.	SIZE	6 7/16
5	D.C.	ID		MFG.	HYDIA
		OD	144.33 FT.	TYPE	
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	
3	SUBS	OD	2.90 FT.	SER. NO	8106
	BIT OR C.B.		54.85 FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		27.75 FT.	COND. OF BIT	
	TOTAL		325.25 FT.	REAMER CUTTER NO.	
WT. OF STRING			15000 LBS.	TYPE	

DRILLER: Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	1	319	322		80	4	450	5	71			
					80	6	450					

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12:00 - 12:15	SERVICE RIG
12:15 - 2:00	CIRC TO CON MUD
2:00 - 3:00	HOIST TO CORE
3:00 - 4:30	PICK UP CORE BBL & MAKE UP SAME
4:30 - 5:45	RUN IN HOLE WITH CORE BBL
5:30 - 5:45	CIRC CORE BBL & DROP BALL
5:45 - 7:15	CUT CORE NO 1) WORK ON PUMP 7:15-7:30
7:30 - 8:00	CUT CORE

MUD RECORD

TIME			6
WEIGHT			8.9
VISC			44
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
4	STANDS	DP	121.24 FT.	RUN NO.	1
	SNGLS.	DP	FT.	SIZE	6 3/16
5	D.C.	ID		MFG.	HYDIA
		OD	144.33 FT.	TYPE	◇
	RMR BODY	OD	FT.	NOZ. NO	
	STB BODY	OD	FT.	SIZE	
3	SUBS	OD	2.90 FT.	SER. NO.	8106
	BIT OR C.B.		54.85 FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		22.68 FT.	COND. OF BIT	10
	TOTAL		346.00 FT.	REAMER CUTTER NO.	
WT. OF STRING			15000 LBS.	TYPE	

DRILLER: Oh Lamont

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
8	1	322	346		105	9000	350	5	71			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

3:00 - 4:00	CUT CORE NO 1

Welder Mech — Bits

Trucking — Camp

MUD RECORD

	9 AM	2 PM	4 PM
TIME			
WEIGHT	9	8.9	
VISC	41	40	40
W.L.-C.C.		13.6	
FLTR. CK.		3	
PH		11	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS	DP	FT.	RUN NO	1
5	SNGLS.	DP	121.74	SIZE	6 3/16
5	D.C	ID		MFG.	HYDIA
		OD	144.33	TYPE	◇
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	
3	SUBS	OD	2.90 FT.	SER NO	8106
	BIT OR C.B.		54.85 FT.	DEPTH OUT	371
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		17.20 FT.	COND. OF BIT	
	TOTAL		370.94 FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: C.H. Hamon

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		346	371		105	9000	350	5	71			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4:00 - 12:00	CUT CORE 1

MUD RECORD

TIME	6:00	8:00	11:00
WEIGHT	9.3	9.3	9.0
VISC	38	37	59
W.L.-C.C.	10.4	10.2	12.
FLTR CK.	2/32	2/32	2/32
PH	11	11	11
SD. CONT	1/4 %	1/4 %	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
MASTER	100		
~~CONC~~			

OPERATOR	LSD.	SEC.	TWP.	W.	WELL NAME	No.	PROVINCE
G.P.D	610 3150"		N 1160	30 - 1	NOEL MILLS-LAKE B-41	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD.
BALDWIN & KNOLL LIMITED	1	5½		IF

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: Ed Powell

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	G.D	FX-FXD	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL		2	
REAMING			
CIRCULATING		2	8
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER WOC	8	2	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12. 8⁰⁰ W.O.C

MIX 11 Bags of Cement & 100 LB of Calcium for outside of surface Csg

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: A. Lemieux

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰-10⁰⁰ WOC

10⁰⁰-11⁰⁰ - Run in to drill out

11⁰⁰-1⁰⁰ - Drill out Cement Close hydril Press to 250 psi held OK.

1⁰⁰-3⁰⁰ - Clean Mud Tank Fill Some with Water

3⁰⁰-4⁰⁰ - Mix Mud

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED	AMT.	TYPE	AMT.
G-1	200		
P1-PA	350		
Pf/Tex	350		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: R. H. Flanor.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

4⁰⁰ - 12⁰⁰ Good mud

Weather Mech. Boiler

Washing comp.

MUD RECORD				
TIME				
WEIGHT				
VISC	28	31	33	
W.L.-C.C.				
FLTR CK.				
PH				
SD. CONT				

CMC 25#

MUD & CHEMICALS ADDED	AMT	TYPE	AMT
Bell	100#	CMC	25#
Bust-C	250#		
Pf-Tex	150#		
Plaster	150#		

Feb-4/68

OPERATOR: C.P.D.

CONTRACTOR: BALDWIN & KNOLL LIMITED — RIG NO. 1

DRILL PIPE STRING NO. SIZE — TOOL JOINT OD — TYPE THD. 3½

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: [illegible]

LSD. 6 — SEC. 31 50" — TWP. N 116° — RGE. 21 30" W.

WELL NAME: NOEL MILLS LAKE B-41 No. 2

PROVINCE: N.W.T.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	C.D.	FLOYD	10"
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		2	
REAMING			
CIRCULATING	5	1	
TRIPS			
DEVIATION SURVEY			
TEST B.O.P		½	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	3	4½	8
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	4
	SNGLS. DP	FT.	SIZE	6¾
	D.C. ID		MFG.	R
	D.C. OD	FT.	TYPE	XT3
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	461058
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12⁰⁰	- 1215	RIG SERVICE
12⁰⁰	- 2⁰⁰	NIPPLE UP
2⁰⁰	- 3⁰⁰	RUN IN HOLE TO TOP OF PLUG
3⁰⁰ - 8⁰⁰	CIRC.	HOT WATER

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	4
3	SNGLS. DP	5987 FT.	SIZE	
7	D.C. 7" ID		MFG.	
	D.C. 6¾ OD	204.20 FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
1	SUBS 6¾ OD	1.50 FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		17000 LBS.	TYPE	

DRILLER: A. Lemieux

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8⁰⁰	- 9⁰⁰	CIRC. - TEST B.O.P.'S 800# O.K.
9⁰⁰	- 11⁰⁰	DRILL OUT
11⁰⁰	- 11³⁰	CIRC. ON BTM.
11³⁰	- 12⁰⁰	WATER COMING UP AROUND SURFACE PIPE
12⁰⁰	- 4⁰⁰	RIG TO CEMENT - WAIT ON SAME

Welder Mech 8 hrs — Baker Crew 8 hrs

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG.	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: R. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

7⁰⁰	- 9⁰⁰	W.O.C.
9⁰⁰	- 9¹⁵	RIG TO CEMENT
9¹⁵	- 10¹⁵	CEMENTING W/ 100 SAKS NORMAL 4% Gel. DISPLACE W/ 11 bbls. WATER 15.5# SLURRY NO CEMENT RETURNS
10¹⁵	- 12⁰⁰	W.O.C.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Zd- 3

OPERATOR: G.P.D

LOC. SEC. TWP. RGE. W.

WELL NAME: NOEL MILLS LAKE B-41 No. 2

PROVINCE: N.W.T.

CONTRACTOR: BALDWIN & KNOLL LIMITED

RIG No.: 1

DRILL PIPE STRING NO. SIZE: 2 2

TOOL JOINT OD / TYPE THD.: 1F.

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	FXE	10"
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
7"	20#	FO	218.50	KB.	120 SAKS	CALL 3%	
		"	310.00	G.L.			

TIME DISTRIBUTION—HOURS

	WORK	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			4
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			6

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL 218.50	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: R. H. Hamel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

12:00 - 12:30 - RUNNING CSG & HEAD UP

12:30 - 1:00 - CIRC + WORK CSG.

1:00 - 1:45 - CEMENTING W/ 120 SAKS 3% CALL

- PLUG DOWN @ 1.45 AM

1:45 - 8:00 - CSG. LANDED @ 318.50 KB. 7" - 20#

W.O.C. - SCRATCHERS 1st + 2nd JT

- 1 - CENTRALIZER 1st JT

- 1 GUIDE SHOE + 1 FLOAT COLLAR.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

14.5# SLURY

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: A. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

8:00 - 12:00 - W.O.C.

12:00 - 1:45 - SLACK OFF CSG CEMENT DID not HOLD

1:45 - 4:00 - W.O.R

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: J. Samuel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 - 4:15 Rig Service

4:15 - 8:30 Cut Casing Weld on bowl.

8:30 - 10:00 Run Cement on out side of service PIPE

10:00 - 12:00 Nipple up.

Welder Mech Boiler

Swabbing camp

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Hr. 2 / 66

OPERATOR	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G.P.D.	10-0	31'50"	N 46°	31'	31"	NOEL MILLS LAKE B-41	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING N.C. SIZE	TOOL JOINT OD	TYPE THD.
BALDWIN & KNOLL LIMITED	1	3½		IF

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDER DENVER	FXE	10"
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			4
CIRCULATING			
TRIPS			1¼
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			¼
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			23
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			24

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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	2
3.	SNGLS. DP	88.87	FT.	SIZE	9⅝
7	D.C. ID / OD	204.20	FT.	MFG.	SEC
				TYPE	S-3
	RMR BODY OD		FT.	NOZ. NO.	
	STB BODY OD		FT.	SIZE	OPEN
	SUBS OD	3.80	FT.	SER. NO	112903
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	20.63	FT.	COND. OF BIT	
	TOTAL	318.20	FT.	REAMER CUTTER NO.	
WT. OF STRING			LBS.	TYPE	

DRILLER: R. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		225	318	REAMING	180	10.	150	5"	60			
				BOARD TOLLY	333.67							
				STRAP OUT	332.96							

DEVIATION RECORD: DEPTH 318 | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

12⁰⁰	- 12¹⁵	- SERVICE R.G
12¹⁵	- 4⁰⁰	- REAMING BY PILOT HOLE W/ 9⅞ BIT
4⁰⁰	- 4³⁰	- SERVEY (@) 318 ft.
4³⁰	- 5³⁰	- DUMMY TRIP TO COND HOLE FOR CSG.
5³⁰	- 6³⁰	- CIRC. COND HOLE FOR CSG.
6³⁰	- 7⁰⁰	- PULL OUT TO RUN SURFACE CSG
7⁰⁰	- [illegible]	- PREPAIR TO RUN CSG

MUD RECORD			
TIME			
WEIGHT			
VISC	56		
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	
	SNGLS. DP		FT.	SIZE	3
7	D.C. ID / OD	204.20	FT.	MFG.	978
				TYPE	PFED
	RMR BODY OD		FT.	NOZ. NO	STS
	STB BODY OD		FT.	SIZE	open
	SUBS OD	3.80	FT.	SER. NO.	1
	BIT OR C.B.		FT.	DEPTH OUT	EXT 318
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	20.63	FT.	COND. OF BIT	
	TOTAL	213.00	FT.	REAMER CUTTER NO.	
WT. OF STRING		15	LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		0										

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

8⁰⁰	8¹⁵	SERVICE R.G
8¹⁵	10⁰⁰	RUN CSG -
10⁰⁰	11⁰⁰	PULL CSG TITE HOLE
11⁰⁰	1⁰⁰	RUN IN W/ PIPE X REAM OUT HOLE X ROCK X GRAVEL
1⁰⁰	1³⁰	MIX MUD
1³⁰	4⁰⁰	REAMING OUT HOLE ROCK X GRAVEL

MUD RECORD			
TIME			
WEIGHT			
VISC	56	52	55
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
STL	30#		
FLPA	20#		

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
3	STANDS DP	89.77	FT.	RUN NO	
	SNGLS. DP		FT.	SIZE	
7	D.C. ID / OD	204.20	FT.	MFG.	
				TYPE	
	RMR BODY OD		FT.	NOZ. NO.	
	STB BODY OD		FT.	SIZE	
	SUBS OD	3.80	FT.	SER NO	
	BIT OR C.B.		FT	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	20.63	FT.	COND. OF BIT	
	TOTAL	318.50	FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

700 - 415		R.G. Service
415 - 615		Ream hole to bottom working tight spots.
615 - 730		Trip out to run casing
730 - 12.00		R.G. up & run casing
		(Tag most of the way in hole)
	weather	Roads Bailer
	workers	Camp

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
PAPH	50#		

Oct 1 / 66

OPERATOR: G.P.D.

LSD. 61° 30' 30" SEC. TWP. N 40° RGE. 21 W. 4 W

WELL NAME: NOEL Mills LAKE B-41 No. 2

PROVINCE: N.W.T.

CONTRACTOR: BALDWIN & KNOLL LIMITED

RIG No.: 1

DRILL PIPE STRING NO. SIZE: 3½

TOOL JOINT OD / TYPE THD.: IF

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	F4E	10
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION — HOURS	MIDN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG		4	
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	2
	SNGLS. DP		FT.	SIZE	9⅝
1	D.C.	ID		MFG.	SEC
		OD	FT.	TYPE	S3
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	OPEN
	SUBS	OD	FT.	SER. NO.	112903
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
WT. OF STRING			LBS.	TYPE	

DRILLER: C. H. Hamer

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		Reaming										
		0	50									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS:
- 12:00 - 12:15 — SERVICE R.G + SERVEY (a) 310 ft.
- 12:15 - 1:00 — PULL OUT + PUT ON 9⅝ BIT
- 1:00 - [illegible] — REAMING 6¼ PILOT HOLE w/ 9⅝ BIT

MUD RECORD

TIME			7
WEIGHT			
VISC	56		56
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	2
	SNGLS. DP		FT.	SIZE	9⅝
4	D.C.	ID		MFG.	SEC
		OD 9 1/16	FT.	TYPE	S3
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD 3.80	FT.	SIZE	OPEN
	SUBS	OD	FT.	SER. NO.	112903
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	35.00	FT.	COND. OF BIT	
	TOTAL	128	FT.	REAMER CUTTER NO.	
WT. OF STRING		10	LBS.	TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		Reaming										
		50	128									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	128	3/4							

REMARKS:
- 8:00 - 8:15 SERVICE Rig
- 8:15 - 11:30 REAMING 6¼ PILOT HOLE w/ 9⅝ BIT
- ~~8:15 - 11:30~~ 11:30 - 12:00 WORK ON pump
- 12:00 - 2:45 REAMING 6¼ PILOT HOLE w/ 9⅝ BIT
- 2:45 - 3:00 RUN SERVEY 128 FT
- 3:00 - 4:00 STUCK ~~in~~ PIPE WITH SERVEY BBL

MUD RECORD

TIME			
WEIGHT			
VISC	55	52	50
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	
	SNGLS. DP		FT.	SIZE	
9	D.C.	ID		MFG.	
		OD 204.20	FT.	TYPE	
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD 3.70	FT.	SIZE	
	SUBS	OD	FT.	SER. NO.	
	BIT OR C.B.		FT.	DEPTH OUT	
		5.00	FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL	213	FT.	REAMER CUTTER NO.	
WT. OF STRING			LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		128	225									

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS:
- 4:00 - 4:15 R.
- 4:15 - 6:30 Ream To 9⅝ hole
- 6:30 - 8:15 Trip + Servey
- 8:15 - 12:00 Ream 6¼ To 9⅝ hole.
- Welder Mech 8 hrs Barlog
- Trucking camp

MUD RECORD

TIME			
WEIGHT			
VISC	55	55	55
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO	
NO OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:	
OPERATOR'S TIME:	
HRS. W/D.P:	
HRS WO/D.P:	
HRS STANDBY	

Jan 31 68

OPERATOR: G. F. D.

CONTRACTOR: BALDWIN & KNOLL LIMITED — RIG No. 1

LSD. 61° SEC. 21' 50" TWP. N 116° 34' R. W.

WELL NAME: NOEL MILL LAKE B-41 — No. 21 — PROVINCE: N.W.T.

DRILL PIPE STRING NO. SIZE: 3 3½ — TOOL JOINT OD — TYPE THD. I.F.

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: S. McDonald

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	FXO	10"
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	9¾	5	17
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY		½	
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG	¼	2¼	¼
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	2	
	SNGLS. DP	FT.	SIZE	6¼	
1	D.C. 2 ID 4¾ OD	28.50 FT.	MFG.		
			TYPE		
	RMR BODY OD	FT.	NOZ. NO.		
	STB BODY OD	FT.	SIZE		
	SUBS 4¾ OD	1.50 FT.	SER. NO	RR.	
	BIT OR C.B.	FT.	DEPTH OUT		
		FT.	CUMULATIVE HOURS RUN		
	KELLY DOWN	22.60 FT.	COND. OF BIT		
	TOTAL	52.00 FT.	REAMER CUTTER NO.		
WT. OF STRING		LBS.	TYPE		

DRILLER: Le. H. Hanna

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					180	All		5"				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS: 12⁰⁰ - 12¹⁵ - SERVICE RIG
12¹⁵ - - DRLG 6¼" PILOT HOLE.

MUD RECORD

TIME				
WEIGHT				
VISC		45		
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	RR 2	
	SNGLS. DP	FT.	SIZE	6¼ 6¼	
3	D.C. ID OD	87.27	MFG.	SEC	
			TYPE	S4	
	RMR BODY OD	FT.	NOZ. NO		
	STB BODY OD	FT.	SIZE		
	SUBS OD	FT.	SER. NO.	RR 98045	
	BIT OR C.B.	12 FT.	DEPTH OUT	105	
		FT.	CUMULATIVE HOURS RUN	9	2½
	KELLY DOWN	12.13 FT.	COND. OF BIT	T	1/1
	TOTAL	101.40 FT.	REAMER CUTTER NO.		
WT. OF STRING	10¹⁰	LBS.	TYPE		

DRILLER: L. Blondeau

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5					180	4⁰⁰						

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
95	½					95'	½⁰	

REMARKS:
8⁰⁰ 8¹⁵ SERVICE RIG
8¹⁵ 8⁴⁵ DRLG 6¼ PILOT HOLE
10¹⁵ 10³⁰ PULL OUT TO CHANGE BIT 2 6¼
10³⁰ 12⁰⁰ DRLG. 6¼ HOLE
12⁰⁰ 12¹⁵ RUN SURVEY at 95
12¹⁵ 3⁴⁵ WORK ON PUMP
3⁴⁵ 4⁰⁰ DRLG.

MUD RECORD

TIME	10⁰⁰			
WEIGHT				
VISC	45			
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
3	STANDS DP	89.77 FT.	RUN NO	1	
	SNGLS. DP	FT.	SIZE	6¼	
7	D.C ID OD	204.26 FT.	MFG.	Sec	
			TYPE	S4	
	RMR BODY OD	FT.	NOZ. NO.		
	STB BODY OD	FT.	SIZE		
	SUBS OD	1.50 FT.	SER NO	48045	
	BIT OR C.B.	FT	DEPTH OUT		
		FT.	CUMULATIVE HOURS RUN		
	KELLY DOWN	14.75 FT.	COND. OF BIT		
	TOTAL	310 FT.	REAMER CUTTER NO.		
WT OF STRING		LBS.	TYPE	OPEN	

DRILLER: L. Hanna

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
					100		—	5½	7½	-		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION
400	2¼							
415								

REMARKS:
Rig Service
Drill 6¼ Pilot hole
Valve Mechanic 2½ hrs work on
Crown light plant

MUD RECORD

TIME	4:30 pm	8:00 pm		
WEIGHT				
VISC	40	52		
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Jan 30/68

OPERATOR: G.P.D.

CONTRACTOR: BALDWIN & KNOLL LIMITED

RIG NO.

DRILL PIPE STRING NO. SIZE | TOOL JOINT 3'50" OD | TYPE THD.

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER

SEC. TWP. R. W.

WELL NAME: HOEL MILLS LAKE B-41 No. 2

PROVINCE: N.W.T.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	GARDNER DENVER	F-6	10'
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	NORM	DAY	EVE
DRILLING ACTUAL			1
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO. DRILLING ~~ASSEMBLY~~ BIT RECORD

STANDS DP	FT.	RUN NO.	1	
SNGLS. DP	FT.	SIZE	6 1/4	Re Run
D.C. ID		MFG.	RTED	
D.C. OD	FT.	TYPE	VT1R	
RMR BODY OD	FT.	NOZ. NO.		
STB BODY OD	FT.	NOZ. SIZE	OPEN	
SUBS OD	FT.	SER. NO	RR	
BIT OR C.B.	FT.	DEPTH OUT	12.00	
	FT.	CUMULATIVE HOURS RUN	4.00	
KELLY DOWN	FT.	COND. OF BIT		
TOTAL	FT.	REAMER CUTTER NO.		
WT. OF STRING	LBS.	TYPE		

DRILLER: R. H. Hamel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS: Digging Rat Hole Rocks + Gravel.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO. DRILLING ASSEMBLY BIT RECORD

STANDS DP	FT.	RUN NO.	2	
SNGLS. DP	FT.	SIZE	9 7/8 6 1/4	
D.C. ID		MFG.	SEC	
D.C. OD	FT.	TYPE	S3	
RMR BODY OD	FT.	NOZ. NO		
STB BODY OD	FT.	NOZ. SIZE		
SUBS OD	FT.	SER. NO.	OPEN	
BIT OR C.B.	FT.	DEPTH OUT	112903	
	FT.	CUMULATIVE HOURS RUN		
KELLY DOWN	FT.	COND. OF BIT		
TOTAL	FT.	REAMER CUTTER NO.		
WT. OF STRING	LBS.	TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS: 8:00 Service Rig
8:00-8:45 Work on Swivel
8:45-[illegible] Ream Rat Hole to 9 7/8 Rock + Gravel

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	100#		
Pluster Poris	50#		

EVENING TOUR

NO. DRILLING ASSEMBLY BIT RECORD

STANDS DP	FT.	RUN NO	Re run	
SNGLS. DP	FT.	SIZE	6 1/4	
D.C. ID		MFG.		
D.C. OD	FT.	TYPE	2	
RMR BODY OD	FT.	NOZ. NO.	9/16	
STB BODY OD	FT.	NOZ. SIZE	11/32-1	
SUBS OD	FT.	SER NO	33	
BIT OR C.B.	FT	DEPTH OUT		
	FT.	CUMULATIVE HOURS RUN		
KELLY DOWN	FT.	COND. OF BIT		
TOTAL	FT.	REAMER CUTTER NO.		
WT OF STRING	LBS.	TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS: 4:00-10:00 Service
10:00-11:00 Put Kelly Cock in Rig Job.
Clean Pits to spud
11:00-12 Drill 6 1/4 Pilot Hole

MUD RECORD

TIME	4 Pm 7 Pm		
WEIGHT			
VISC	28 48		
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	Holes		
PLRA	Holes		
Cots	Holes		

REPORT No. 27 DATE Jan 29/68

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G. P. D.	61	31' 50"	N 116°	29' - 30"		NOEL HILL LAKE. B-41	F2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
BALDWIN & KNOLL LIMITED	1		

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
	T. McDonald

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			10"
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: R. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS: W.O. CAT TO DIG PIT + SUMP (w/ crew)

MUD RECORD	
TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: L. B. Knolls

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
	8 00	x 4 00										

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS: W.O. CAT. TO DIG PIT + SUMP (w/ crew)

MUD RECORD	
TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Gel	1400#		
Caustic			
Soda	75#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS: (w/ crew)

4 00 - 9 00 CT digging sump
9 00 - 10 30 Rig Dat Hole (3 ft.) (drilling rate)
10 30 - 12 00 [illegible] down [illegible] up drill [illegible] [illegible] drill with [illegible]
Wilson Mech 30 hrs. on home
Rosie motor 7 hrs

MUD RECORD	
TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR CK.	
PH	
SD. CONT	

MUD & CHEMICALS ADDED TYPE	AMT	TYPE	AMT.
Gel	1300#		
Caustic	50#		
[illegible]	50#		

Jan 28/68

OPERATOR	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G.P.D.	61	31' 50'	H 116 0.	3	50'	G.P.D. Noel Mills Lake B-4	# 2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD
BALDWIN & KNOLL LIMITED	1		TYPE THD.	

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: T McDonald

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD

SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NO. / NOZ.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. H. Hamel

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

1300 Rig up rig + equip. ready spud + day set
800 hole - fresh Bolles (Rigging up)

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NO. / NOZ.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

400 Rigging up - wait on pit (Rigging up)
Unload drill pipe + abs
Unload rig.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NO. / NOZ.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: J. Samuels

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 - 12:00 Wait on pit (w/ CREW)
Welders Mech & Bus 4:50 per hr.
Trucking

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

OPERATOR: G.P.D

CONTRACTOR: BALDWIN & KNOLL LIMITED

RIG NO.:

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: T McDonald

LSD. 61 SEC. 31-50 TWP. 116 RGE. 34 W. 127

WELL NAME: G.P.D. Nat. Mills Lake

No. B-41 + 2

PROVINCE: N.WT

DRILL PIPE STRING NO. SIZE | TOOL JOINT OD | TYPE THD.

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. H. Hanson

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

1200 Hauling equip to New Camp

500 Loading last trucks - Rigging out (Moving)

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	

DRILLER: C. Blanchette

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

REMARKS

900 1000 Moving - DRIVE RIG TO ABOVE LEASE

1000 400 RIGGING CAMP + SPOT RIG EQUIP.

~~[illegible]~~ (Moving)

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: J. Samuels

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS

900 1200 Rig ~~camp~~ & rig (Moving)

welder, Mech & hrs @ $4.50 per hr.

Searching

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

26 1 W B-41

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
G.P.D.	61	31'-50"	N 160	29'-30"		HOFL MILLS LAKE B-41	#2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD / TYPE THD.
BALDWIN & KNOLL LIMITED	1		

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: D McDonald

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
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

KEEL NO

NO OF LINES. SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			
MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT. OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			
MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER NO	
	BIT OR C.B.	FT	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

400 Moving
1300 To ABOVE LEASE

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR CK.			
PH			
SD. CONT			
MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT