HB PETITOT - C-60

Drilling Authority No. 419

Date Issued 11 February 1970

WELL NAME HB Petitot C-60

FIELD ..... Area: .....

LOCATION: Unit C Section 60 Grid 60-10-121-15

Latitude 60-09-1.74 Longitude 121-25-36.7

U.W.L.R. 60.15049 — 121.42686

U.W.I. 300C606010121150

Rig Release Date: .....

Status: .....

Information Release Date: .....

CHANGE OF NAME:

DATE RECEIVED	INDEX
11/2/70	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
23/9/70	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
6/10/70	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.....

IAND 52-90 (3-69)

Drilling Authority No. 419
Date Issued Feb. 11/70

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

WELL COMPLETION DATA

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

OCT 8 1970

Well name and number: HB Petitot C-60

Permit No. 2710 Lease No.

Hudson's Bay Oil & Gas Co.Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 1268

Hudson's Bay Oil & Gas Co.Ltd (Operator) Exploratory Licence No. 1268

Location: Unit C Section 60 Grid 60°10'N 121°15'W

Latitude 60°09'1.74"N Longitude 121°25'36.7W

Unique well identifier 300C606010121150

Universal Well Location Reference Lat. 60.15049°N, Long. 121.42686°W

	DATE	DEPTH
Spudded	Feb 16/70	
Suspended		
Resumed Operations		
Finished Drilling	Mar 18/70	7315'KB
Deepened		
Complete (gas/oil)		
Abandoned	Mar 21/70	
Rig released	Mar 21/70	

Pool(s)

Interval(s) open to production

Elevation: Gr. 1939' K.B. 1956'

Rig No. 6

Drilling Contractor Nabors Drilling Ltd.

Contractor's Business Licence No. 524

CASING RECORD

Casing Size (inches)	Grade	Weight	Amount	Set at	Sacks of Cement and Additives
1. 10 3/4	K-55	40.5#/ft.	778'	795'KB	700 + 2% $CaCl_2$
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION	
	Depths	Sub-Sea
Banff	1835	+ 121
Exshaw	3130	-1174
Kotcho	3160	-1204
Tetcho	3900	-1944
Trout River	4150	-2194
Kaiska	4280	-2324
Jean Marie	4860	-2904
Ft. Simpson	4913	-2957
Muskwa	6554	-4598
Presqu'ille	6595	-4639
Total Depth	7315	-5359

CORE RECORD

From	To	Rec.	From	To	Rec.

LOG RECORD

Run No.	Type of Log	From	To
1	DIL	7311	795
1	DIL	7315	6400
1	BHC-SGR	7313	795
1	BHC-SGR	7313	6400
1	Continuous Dipmeter	7300	4930

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
19-3-70	7315	7000	Not felt 170 sacks cement + 2% $CaCl_2$.
20-3-70	850	750	Felt at 738 'KB 65 sacks cement.
21-3-70	At Surface		Weld on plate and erect identification marker - 5 sacks cement in stub.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidizing, 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	Mar 16/70	Presqu'ille	7165	7220	-	-	-	-	-	-	-	-	-	Misrun. No packer seat.
2	Mar 17/70	Presqu'ille	7145	7220	90	60	60	2827	2801	747	2696	3479	3368	Good air blow on preflow. Good gas blow steady throughout test TSTM. Recovered 250 feet gas cut mud, 1000 feet mud cut salt water, 4545 feet salt water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E70-664-4	Water	7145	7220	DST #2	

PRESENT STATUS OF WELL

Oil ..... (Interval)

Gas ..... (Interval)

Dry and Abandoned

Stsp.

Company Hudson's Bay Oil & Gas Co. Ltd.

Signed by D.M. Morgan

Title District Engineer

Date October 6, 1970

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

File No.

Drilling Authority No. 419

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
OIL AND MINERAL ~~Resources~~ DIVISION

Application to Abandon a Well ~~Proposed Drilling~~

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

Name and number of well HB Petitot C-60

Location: Unit C Section 60 Grid 60°10'N 121°15'W

Latitude 60°09' 1.74"N Longitude 121°25' 36.7"W

From Established Reference Marker S.P. 601. Line 32

Universal Well Location Reference: Lat. 60.15049°N, Long. 121.42686°W

Permit No. 2710 Lease No.

Hudson's Bay Oil & Gas Co. Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed programme March 21, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at

Gas at

Water at 7145 - 7220' (DST #2)

Total Depth 7315 feet KB Date of last operations March 21, 1970

Present condition of well Dry and abandoned

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement	Method	Amount Pulled
1. 10 3/4	40.5#/ft	778'	795'KB	700 + 2%	$CaCl_2$.	
2.						
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAMME

Plug No.	Plug Position 'KB	Geological Formation	Number of Sacks of Cement	Remarks
1	7315-7000	Presqu'ille	170	Not felt
2	850-750	-	65	Felt at 738'KB
	At Surface	-	5	Weld on plate and erect identification marker

The following logs have been run DIL, BHC-SGR, Continuous Dipmeter

Other operations proposed

Operations to be carried out by Nabors Drilling Ltd. Contractor Licence No. 524

Address 444-7th Avenue S.W. Calgary ~~Address~~

Responsible Agent in field N. Dease Address: 11630 Kingsway Avenue, Edmonton

Dated at Edmonton, this 19 Day of August, 19 70

Signed by [signature] Company Hudson's Bay Oil & Gas Co. Ltd.

Title District Engineer Exploratory Licence No. 1268

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

(For RESOURCES 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. Thoms on the 18th March 1970.

Dated 23rd September, 19 70 [signature]

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta

NANR 52-90 (5) (1-61)

Drilling Authority No. 429

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
~~RESOURCE MANAGEMENT DIVISION~~
OIL AND MINERAL 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 BH Petitot C-60

Location: Unit C Section 60 Grid 60° 10' N. 121° 15' W

Latitude 60° 09' 1.74" N. Longitude 121° 25' 36.7" W.

From Established Reference Marker Shot point 601, Line 32

Universal Well Location Reference Lat. 60.15049° N. Long. 121.42686° W.

Elevation: Ground 1939 K.B. To follow feet above sea-level.

Well is expected to produce from presquile formation at a depth of about 6650 feet. Expected total final depth 7775' Pre-Devonian

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 2710 Lease No. Acreage 63584

Permittee, licensee, or lessee EDOC

Exploratory Licence No. 1268

Surface owned by Crown

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

Petroleum and natural-gas rights owned by Crown

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. 10-3/4"	40.5	K-55	New	800'	Sufficient cement
2.					volume plus 2%
3.					CaCl2 to return
4.					to surface.
5.					

Expected water, gas, and oil horizons and type of control equipment Anticipated production horizon will be from the Presqu'ile. Control equipment will consist of proper drilling fluid and adequate blowout prevention equipment.

Well will be drilled with Rotary Rig No. 6 by Sabora Drilling Ltd.

(Drilling Contractor or company)

Responsible agent of applicant:—

At well N. Dease

Address 11630 Kingsway Ave.

Contractor's business Licence No. 524

At registered office R.L. Levesque

Address same

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

Dated at Edmonton, this 9 day of February 19 70

Signed by Company Hudson's Bay Oil & Gas Co. Ltd.

Title District Drilling Foreman Operator's Licence No. 1268

(For Resource Management Division use only)

APPROVED

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

1. The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
2. During well drilling and testing operations, every effort shall be made to ensure

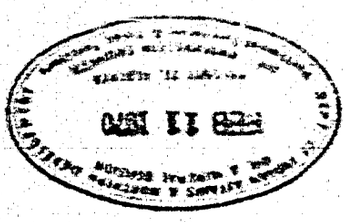
Dated 11th February 19 70

Please see over page
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 - 300C606010121150

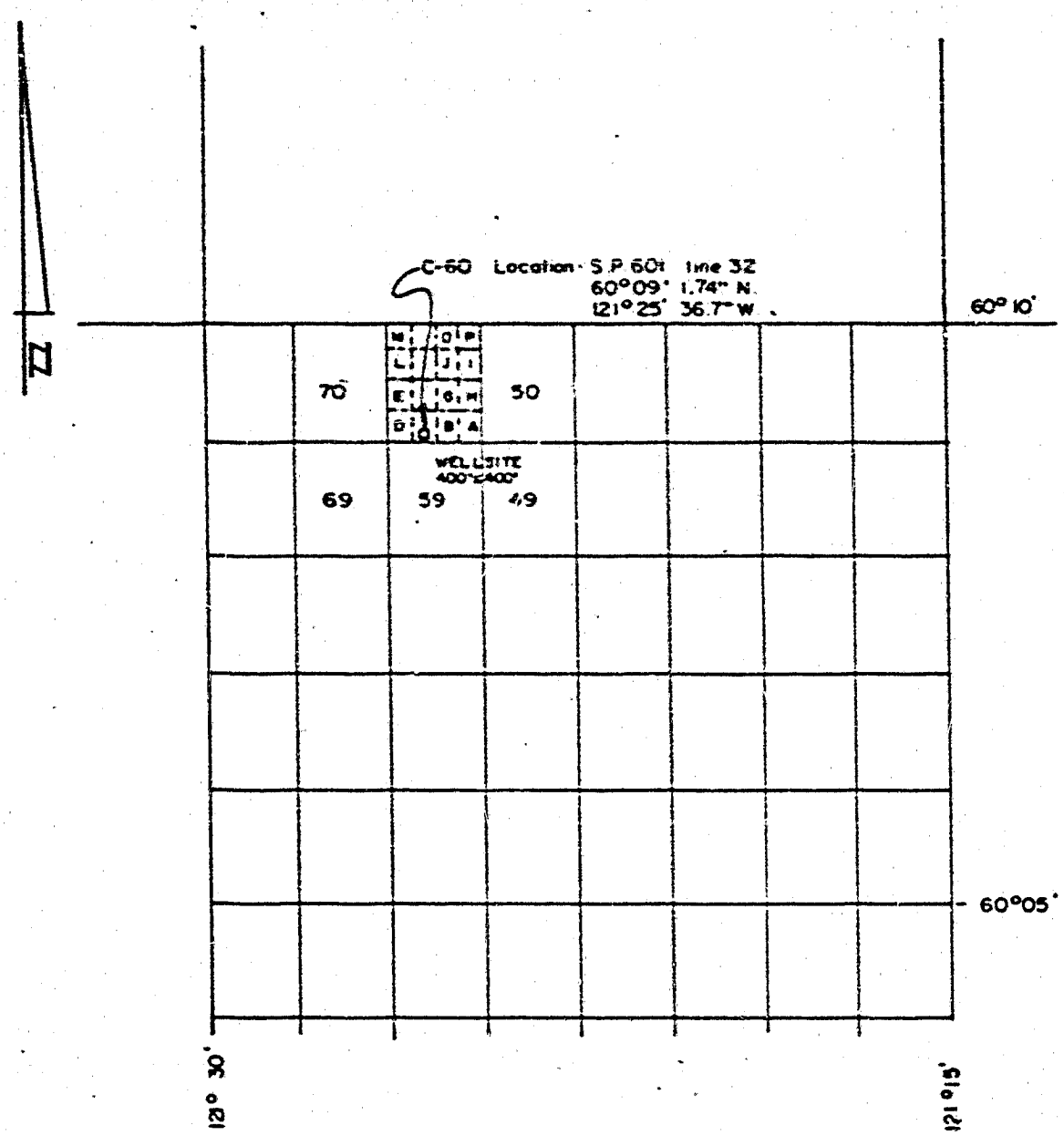


that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

4. Intermediate and production strings of casing are to receive the approval of the Oil Conservation Engineer.

B.R.J. Thomas
Oil Conservation Engineer



U.W.L.R. - 60.16437° N.
121.42686° W

Coordinates - 1420' S. } NE. Cor. Unit C Sec. 60
1050' W }

Elevation - 1939'

PRELIMINARY PLAN

Hudson's Bay Oil and Gas Company Limited

Engineer

District Analyst

Hudson's Bay Oil and Gas Company Limited

Production Dept.

N.W.T.

HB PETITOT C60

WELLSITE

REFERENCE 60°10'N 121°15'W

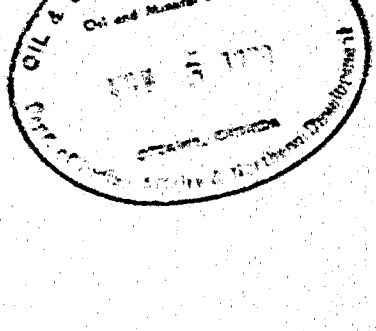
Scale 1" = 2 miles	Drawn D.D.W.	Drawing No
Date FEB. 1970	Checked	

HUDSON'S BAY OIL & GAS CO. LTD.

WELL HISTORY REPORT

HB PETITOT c-60

HUDSON'S BAY OIL & GAS COMPANY LIMITED



WELL HISTORY REPORT

HB Petitot C-60

SIGNED: _____

DISTRICT ENGINEER

DATED: July 10 /70

INDEX

HB PETITOT C-60

WELL HISTORY REPORT

SECTION I - SUMMARY OF WELL DATA

a) Well Name: HB Petitot C-60

b) Permittee, Licensee or Lessee: Hudson's Bay Oil & Gas Co. Ltd.

c) Name of Operator: Hudson's Bay Oil & Gas Co. Ltd.
11630 Kingsway Avenue
Edmonton 25, Alberta

d) Location: Unit c Section 60 Grid 60°10'N 121°15'W

e) Co-ordinates: Latitude 60°09' 1.74"N
Longitude 121°25' 36.7"W

Universal Well Locator Reference
Latitude 60.15049°N
Longitude 121.42686°W

f) Permit No. : 2710

g) Drilling Contractor: Nabors Drilling Limited Rig No. 6

h) Drilling Authority: 419 issued February 11, 1970

i) Classification: Exploratory

j) Elevations: Ground 1939 feet
KB 1956 feet

k) Spudded: February 16, 1970

l) Completed Drilling: March 18, 1970

m) Total Depth: 7315 feet KB
Plug Back Depth: Surface

n) Well Status: Completed as a dry hole, plugged and abandoned.

o) Rig Released: March 21, 1970

p) Hole Size: Surface - 15 inch - Surf to 795 feet KB
Final - 8 3/4 inch - 795-7315 feet KB

q) Casing: Surface - 10 3/4 inch OD 40.5 lb. K-55
Set at 795 feet KB

SECTION II - GEOLOGICAL SUMMARY

a) Formation Tops:

Marker	Log Depth Feet KB	Subsea	Sample Depth Feet KB	Subsea
Banff	1835	+ 121	-	-
Exshaw	3130	-1174	-	-
Kotcho	3160	-1204	3163	-1207
Tectcho	3900	-1944	3911	-1955
Trout River	4150	-2194	4162	-2206
Kaiska	4280	-2324	4282	-2326
Jean Marie	4860	-2904	4868	-2912
Ft. Simpson	4913	-2957	4930	-2974
Muskwa	6554	-4598	6568	-4612
Presqu'ille	6595	-4639	6587	-4631
TOTAL DEPTH	7315	-5359		

b) Cored Interval:

No cores were cut.

SECTION III - ENGINEERING SUMMARY

a) Report of Drill Stem Tests

Three copies of DST's #1 & #2 were forwarded to the Department of Indian Affairs and Northern Development in Calgary on April 23, 1970.

PETITOT C-60

1750 - 1750 Shale, dark gray, pyritic
Siltstone, gray, limy

1750 - 1760 No samples

1760 - 1790 Shale, as above.

PEKISKO @ 1790' Lagged to 1776'

1790 - 1860 Limestone, cream, white, fine to medium crystalline, glauconitic, bioclastic, Crinoids, Brachiopods, tight.

BANFF @ 1860' Lagged to 1835'

1860 - 1880 Sandstone, quartzose, fine to medium grained, poorly sorted, subangular, basically tight, trace pyrobitumen, trace intergranular porosity, no flor, no cut.

1880 - 1832 Limestone, cream, light brown, bioclastic, very fine crystalline, partially interbedded with shale, green, Crinoids.

1930 - 1980 Limestone, as above, bioclastic, pyritic, very slightly argillaceous and silty, interbedded with shale, as above.

1980 - 2000 Shale, gray, splintery.

2000 - 2020 Shale, gray, as above.
Siltstone, gray, slightly sandy.
Limestone, as above.

2020 - 2040 Shale, gray, green, partially silty, Crinoids interbedded with limestone, as above. Crinoids and Brachiopods.

2040 - 2050 Shale, gray brown and green, silty in part.
Limestone, as above.
Rare sandstone, very fine grained, slightly silty, argillaceous, calc. no porosity.

2050 - 2060 Shale, gray, green, brown.

2060 - 2100 Siltstone, gray, cream, calcareous.
Limestone, gray, cryptocrystalline, bioclastic in part.
Shale, green, dark gray.

2100 - 2120 Shale, gray, green.
Minor limestone, as above.

2120 - 2160 Shale, gray, green, pyritic.
Limestone, as above, rare microcrystalline.
Rare siltstone, dark gray, mica.

2160 - 2180 Limestone, light gray, microcrystalline, partially bioclastic.
Shale, green, gray, slightly calcareous.
Rare siltstone, dark gray.

2180 - 2190 Sandstone, gray, very fine grained, limy, no porosity. No show.
Limestone, gray, partially bioclastic, silty and sandy.

2190 - 2340 Limestone and sandstone, as above.
Rare siltstone, dark gray.

2340 - 2350 Siltstone, dark gray, limy.
Shale, gray.
Rare limestone, gray, very fine crystalline, silty and sandy, pyritic.

2350 - 2600 Shale, gray, green, partially limy.
Siltstone, gray, sandy in part.

2600 - 2650 Sandstone, gray to very light brown, very fine grained, limy, shaly.
No porosity, no show.
Shale and siltstone, as above.

2650 - 2660 Sandstone, as above.
Shale and siltstone, as above. Brachiopods?

2660 - 2670 Shale, dark gray, green, partially silty.
Siltstone, gray, scattered pyrite crystals.

2670 - 2700 Sandstone, light brown, very fine grained, limy, no porosity, no show.
Siltstone, gray, rare sandy, limy.
Shale, green to gray, partially silty.
Rare limestone, light brown, sandy.

2700 - 2710 Shale, gray to dark gray, green, partially silty.
Siltstone, gray.
Rare limestone, as above.

2710 - 2720 Shale, gray to dark gray, very slightly limy.
Siltstone, as above.
Sandstone, gray and white, very fine grained, rare silty, limy. No porosity, no show.

2730 - 2780 Shale, green to dark gray, pyritic, limy, rare quartz grains.
Sandstone, cream to light brown, very fine grained, limy, black and white mottled, rare very poor granular porosity, no show.
Siltstone, dark gray, pyritic, very slightly limy.

2780 - 2800 Shale, as above and siltstone, as above.
Trace sandstone, as above.

2800 - 2820 Siltstone, gray to dark gray, mica, pyritic, slightly limy.
Shale, dark gray.

2820 - 2870 Siltstone, light gray and cream, limy, pyritic, mica.
Shale, dark gray, pyritic, mica.

2870 - 2890 Siltstone, gray, slightly calcareous, pyritic.
Rare shale, gray, dark gray.
Rare sandstone, cream, very fine grained, silty, limy, tight, interbedded with siltstone, as above.

2890 - 2940 Siltstone, gray, as above and cream to very light brown, slightly limy, pyritic.
Shale, dark gray.

2940 - 2960 Siltstone, gray, pyritic, mica, slightly limy, interbedded with siltstone, light brown.
Rare sandstone, white, very fine grained, limy, no porosity, no show.
Rare shale, dark gray.

2960 - 3020 Siltstone, gray to light brown, limy, shaly.
Shale, gray, green.

3020 - 3030 Shale and siltstone, as above.
Sandstone, white, micro grained, limy, no porosity, no show.

3030 - 3140 Shale, gray, rare darkish gray, pyritic.
Siltstone, gray, rare limy, pyritic.

EXSHAW @ 3140' Lagged to 3130'

3140 - 3170 Shale, black, bituminous, pyritic.
Rare chert.

KOTCHO @ 3170' Lagged to 3160'

3170 - 3180 Limestone, black, crypto to microcrystalline, bituminous, interbedded with shale, black, bituminous, rare pyritic.

3180 - 3230 Shale, gray, limy.

3230 - 3300 Limestone, cream, cryptocrystalline, rare pyritic. Crinoids.

3300 - 3310 Shale, gray, limy, partially silty.

3310 - 3340 Shale, gray, green gray, limy.

3340 - 3350 Limestone, cream, cryptocrystalline, bioclastic, partially pyritic. Crinoids.

3350 - 3370 Limestone, as above.

3370 - 3400 Shale, gray, green, limy.
Siltstone, gray.

3400 - 3410 Shale, gray, green, rare limestone, cream, cryptocrystalline.

3410 - 3420 Shale, gray, green, limy, scattered pyrite, rare silty.

3420 - 3430 Shale, tan, calcareous.
Limestone, gray, cryptocrystalline.

3430 - 3440 Shale, gray, limy.
Siltstone, gray, mica, pyritic.
Limestone, cream, cryptocrystalline, Crinoids.

3440 - 3470 Shale, gray, limy, Crinoids.
Rare limestone, as above.

3470 - 3480 Shale, gray, green, limy.
Shale, dark gray, silty, pyritic in part, bituminous.
Rare Crinoidal limestone, cream.
Rare siltstone, cream.

3480 - 3530 Shale, gray, green.
Rare shale, dark gray, as above.
Trace limestone, cream, light brown, cryptocrystalline, @ 3530'.

3530 - 3560 Shale, gray green, calcareous.
Rare shale, dark gray, very slightly limy.
Rare siltstone, dark gray, very slightly limy.
Rare limestone, cream to light brown, cryptocrystalline, Crinoids.

3560 - 3570 Shale, as above.

3570 - 3580 Shale, gray green, as above, interbedded with limestone, as above.
Shale, dark gray, silty, Crinoids.
Limestone, cream to light brown, cryptocrystalline, Brachiopods.

3580 - 3590 Limestone, cream, cryptocrystalline, argillaceous in part, Brachiopods and Crinoids.

3590 - 3600 Shale, gray, limy.
Shale, dark gray, bituminous, silty.
Siltstone, dark gray.
Limestone, as above, Crinoids.

3600 - 3630 Shale, gray and dark gray, as above, Crinoids.
Limestone, as above, Crinoids.

3630 - 3700 Shale, gray, limy.
Shale, dark gray, as above.
Rare limestone, as above, Crinoids.

3700 - 3790 Shale, gray, green, limy.
Trace interbedded with limestone, cream to light brown, cryptocrystalline.

3790 - 3820 Limestone, cream to very light brown, cryptocrystalline, very slightly argillaceous, Brachiopods and Crinoids.

3820 - 3850 Limestone, as above, trace chalky.
Trace chert, red and yellow.

3850 - 3910 Limestone, cream to brown, cryptocrystalline, argillaceous, trace pyritic.
Trace interbeds of carbonaceous bands, Crinoids, Ostracods?

TETCHO @ 3910' Lagged to 3900'

3910 - 3950 Limestone, cream to light brown, cryptocrystalline, partially pyritic, trace shaly partings, Fossils.

3950 - 3970 Limestone, as above, rare chalky, trace shaly partings, rare dolomitic.

3970 - 3980 Limestone, as above, Brachiopods and Crinoids.
Shale, brown, limy.

3980 - 4000 Limestone, as above, trace recrystallized fine calcite crystals, partially pyritic, partially dolomitic (pelletic appearance) Crinoids.

4000 - 4020 Limestone, cream, cryptocrystalline, rare bituminous partings, Crinoids.

4020 - 4040 Limestone, cream, light brown, as above, partially silty, trace dolomitic.

4040 - 4060 Limestone, as above, slightly silty and shaly.

4060 - 4100 Limestone, cream to very light brown, crypto to very fine crystalline, bituminous partings, rare silty, trace pyritic. Fossils.

4100 - 4120 Limestone, cream to very light brown, very fine crystalline, trace bituminous, silty.

4120 - 4130 Same as above. Brachiopod fragments.

4130 - 4140 Limestone, cream, fine crystalline, pyritic, silty.
Siltstone, gray, limy.

4140 - 4170 Limestone, cream to light brown, fine crystalline, argillaceous, pyritic, silty.
Siltstone, gray, limy.

TROUT RIVER @ 4170' Lagged to 4150'

4170 - 4200 Shale, green, limy, pyritic.
Siltstone, gray, green, calcareous, pyritic.
Limestone, as above.

4200 - 4230 Limestone, light brown, fine crystalline, pyritic, silty and shaly.
Siltstone, gray, green, limy.

4230 - 4240 Limestone, light brown, fine crystalline, pyritic, silty in part, shaly.
Siltstone, gray green, limy.

4240 - 4270 Limestone, as above.
Shale, green, gray, limy.
Shale, brown, partially silty, limy @ 4250'.

4270 - 4290 Limestone, light brown, very fine to fine crystalline, partially silty, partially shaly, pyritic.
Shale, brown, partially silty, very slightly limy.
Siltstone, buff, limy.

4290 - 4300 Limestone, light brown, very fine crystalline, silty and shaly, Fossils.
Siltstone, gray, green, slightly limy.
Shale, gray, slightly limy and silty.

KAKISA @ 4300' Lagged to 4280'

4300 - 4310 Shale, buff to gray, slightly limy.
Trace limestone, gray to light brown, fine crystalline, partially pyritic, slightly argillaceous, slightly silty, rare specks of bitumen.

[redacted] - 4320 Shale, gray to light brown, limy.
Siltstone, gray, limy, partially pyritic.

4320 - 4330 Siltstone, greenish gray, limy.
Shale, gray, silty.
Limestone, cream, very fine crystalline, slightly silty, trace bituminous specks.

4330 - 4340 Siltstone, greenish gray to gray, very limy. Brachiopods.
Trace shale, greenish gray, rare silty.
Trace limestone, as above.

4340 - 4350 Siltstone and shale, as above.

4350 - 4380 Siltstone, gray, very limy.
Shale, green, rare silty, limy.

4380 - 4390 Same as above.
Trace limestone, light brown, cryptocrystalline, silty appearance.

4390 - 4400 Limestone, light brown to cream, crypto to microcrystalline, silty appearance.
Shale and siltstone, as above.

REDKNIFE @ 4400' Lagged to 4380'

[redacted] - 4410 Limestone, cream, very light brown, cryptocrystalline, as above. Brachiopods.
Siltstone and shale, as above.
Trace chert, white with red tint.

4410 - 4420 Limestone, light brown, cryptocrystalline.
Shale and siltstone, as above.
Trace chert, white.
Limestone, cream, as above.

4420 - 4440 Limestone, cream, brown, crypto to very fine crystalline, slightly silty, Fossils.

4440 - 4450 Limestone, brown, cryptocrystalline, argillaceous, rare dolomitic.
Limestone, cream, very fine crystalline, Fossils.
Shale, brown and green, slightly pyritic.
Siltstone, as above.

4450 - 4470 Limestone, brown, cryptocrystalline, argillaceous, slightly silty, fossils.
Shale, gray, green, limy.

4470 - 4480 Limestone, brown, cryptocrystalline, argillaceous.
Limestone, dark brown, very fine crystalline, bituminous, no flor, no cut.
Shale, green, very slightly limy.

4480 - 4500 Shale, brown, gray, green, slightly silty, slightly limy.

[redacted] - 4510 Shale, green, brown, limy, slightly pyritic, slightly silty.
Limestone, brown, cryptocrystalline, Spirifer.

4510 - 4540 Shale, brown, green, slightly limy.
Siltstone, green, very limy.
Trace limestone, brown, cryptocrystalline @ 4530'.

4540 - 4550 Shale, brown, slightly silty, very slightly limy.
Shale, green, slightly silty, slightly limy.

4550 - 4560 Shale, brown, tan, very slightly limy, rare silty appearance.

4560 - 4570 Shale, gray, green, brown.

4570 - 4610 Shale, gray, green, brown, slightly limy.
Trace limestone, brown, very fine crystalline, silty.
Rare siltstone, green, limy.

4610 - 4640 Shale, light brown to green gray, very slightly limy.
Trace siltstone, gray, limy, black and white specks.

4640 - 4670 Shale, brown to green gray, splintery, trace interbedded with limestone, gray brown, very fine crystalline, silty appearance, Brachiopods.

4670 - 4700 Shale, green gray, brown, as above, trace interbedded with limestone, cream to very light brown, very fine crystalline, silty.
Siltstone, gray with green tint, limy.

4700 - 4720 Shale, green, gray, platy.
Rare shale, brown.
Rare siltstone, green, limy.
Trace limestone, light brown, bioclastic, glauconitic, Crinoid and Brachiopod.
Trace limestone, cream, very fine crystalline, silty.

4720 - 4760 Shale, green, gray, platy and splintery, Brachiopods.
Rare shale, brown,
Trace limestone, light brown, interbedded with gray shale.

4760 - 4790 Shale, gray, rare brown, chunky, rare silty.
Siltstone, gray green, limy, quartzitic in part.

4790 - 4800 Shale, gray, rare brown, platy, trace silty.
Siltstone, gray green, limy.
Trace limestone, gray, very fine crystalline, silty, argillaceous.

4800 - 4810 Shale, gray, rare green, chunky.
Siltstone, gray green, limy.
Rare limestone, light brown, cryptcrystalline, slightly argillaceous.

4810 - 4820 Shale, gray, rare silty streaks, chunky.
Siltstone, gray, green, limy, slightly quartzitic.

4820 - 4830 Shale, gray green, trace brown, slightly silty.
Siltstone, gray with green tint, limy, quartzitic in part.
Trace limestone, mottled, crypto to very fine crystalline, mottled, yellow, red, gray, Fossils.

4830 - 4836 Shale, gray, green, rare brown.
Siltstone, as above.
Rare limestone, gray, crypto to very fine crystalline, slightly argillaceous, yellow specks, siderite staining (oxidized), trace pyritic, Crinoid Columns.

4836 - 4845 Limestone, mottled, red, yellow, gray, cryptocrystalline matrix, fossiliferous pelletal, Brachiopods, Gastropod, Crinoid.
Limestone, gray, microcrystalline, argillaceous in part.

4845 - 4850 Limestone, fossiliferous, gray to light brown, microcrystalline, slightly argillaceous, slightly pyritic, rare bitumen specks, rare yellow mottled, tight, Brachiopods and Fossils, no flor, no cut.

4850 - 4860 Limestone, light brown, microcrystalline, as above, rare dolomitic, fossils.

4860 - 4870 Limestone, light brown, microcrystalline, rare yellow mottled, slightly argillaceous, pyritic in part, rare fine calcite crystals, few chips pelletal, fossils. Amphipora.

4870 - 4880 Limestone, buff to vitreous brown, very fine to fine crystalline, chalky in part, tight, presence of pyrobitumen. Brachiopods and Fossils, no flor, no cut.

TOP JEAN MARIE @ 4880' Lagged to 4860'

4880 - 4890 Limestone, buff to brown, very fine to fine crystalline, chalky in part, presence of pyrobitumen, Amphipora, no flor, no cut.

4890 - 4920 Limestone, buff to brown, very fine to fine crystalline, rare chalky, trace pyritic, trace pyrobitumen, tight, no flor, no cut, fossils.
Trace poor vugular porosity @ 4890'.

4920 - 4940 Limestone, light brown to brown, very fine to fine crystalline, rare dolomitic, slightly chalky.
Trace pyrobitumen specks, tight, fossils, no cut, no flor.

TOP FT. SIMPSON Lagged to 4913'

4940 - 4980 Shale, gray to green gray, rare silty, trace limy, blacky.
Limestone, as above, caving?

4980 - 5060 Shale, gray green, slightly silty, blacky, interbedded with siltstone, green gray, very slightly limy, rare quartzitic.

5060 - 5100 Shale, as above.
Shale, brown, splintery and platy.
Rare siltstone, green, quartzitic.

5100 - 5140 Shale, gray to gray green, as above.
Rare shale, light gray and limy, platy.
Rare siltstone, gray green, rare limy.
Rare shlae, brown, as above, slightly limy.

5140 - 5160 Shale, gray to green, slightly silty and splintery interbedded with limestone, gray.
Siltstone, gray to green, limy, slightly quartzose.

5160 - 5190 Shale, gray green, as above, splintery and chunky.
Siltstone, green, mottled, limy, quartzose.
Rare shale, brown, splintery, rare limy (platy).

5190 - 5200 As above, with black shale.

5200 - 5210 Shale, gray, green, platy and splintery.
Siltstone, gray, green, quartzose, limy, mottled.

5210 - 5220 Shale, gray, green, platy and splintery, rare silty.
Siltstone, green, gray, brown, limy, quartzose.
Trace limestone, cream, very fine crystalline (caving?).

5230 - 5240 Shale, as above, trace interbedded with limestone, brown.
Siltstone, as above, limy, mottled.

5240 - 5250 Shale, as above.
Siltstone, as above with rare siltstone, reddish (oxidized) quartzose.

5260 - 5270 Shale, green, gray, platy and splintery.
Siltstone, gray, green, limy, quartzose.

5270 - 5280 Siltstone, as above, quartzose, trace pyritic.
Shale, gray, green, as above, slightly limy in part.

5280 - 5300 Shale, brown gray, rare green, platy.
Siltstone, gray, green, limy, rare quartzose, mottled.
Rare limestone, gray to light brown, silty, rare dolomitic.

5300 - 5330 Siltstone, gray, green, cream, lime cemented, rare very fine sandy, quartzose.
Shale, gray and brown, splintery and chunky.
Trace limestone, light brown interbeds.

5330 - 5340 Siltstone, as above.
Shale, as above.

5340 - 5350 Shale, gray, splintery and platy.
Trace siltstone, as above.

5350 - 5360 Shale, gray green, partially silty.
Rare shale, brown, platy.
Rare siltstone, brown, green, slightly limy, quartzose.

5360 - 5370 Shale, gray, chunky.
Rare shale, brown, platy.
Rare siltstone, gray, very slightly limy, quartzose.

5370 - 5380 Same as above.
Rare limestone, cream, silty with fine sand grains.

5380 - 5420 Sandstone, gray, very fine grained, silty, slightly limy, shaly in part, quartzose.
Shale, gray, chunky and splintery.
Rare siltstone, gray, sandy in part and limy.

5420 - 5440 Siltstone and sandstone, as above, gray.
Shale, gray, silty and sandy, as above.
Rare limestone, gray, silty and sandy.

5440 - 5490 Same as above.
Trace dolomite, light brown, silty and sandy.

5[illegible]0 - 5510 Shale, brown, gray, splintery and platy.

5510 - 5530 Shale, brown, gray, as above.
Rare sandstone and siltstone, as above, limy, quartzose.
Rare sandstone, green, limy, quartzose.

5530 - 5560 Shale, gray, splintery and platy, rare mica.
Sandstone and siltstone, as above, quartzose.

5560 - 5570 Shale, gray, brown, chunky and platy.
Trace limestone, gray, cryptocrystalline, dolomitic.

5570 - 5580 Shale, gray, darkish gray, platy.
Trace limestone, as above.

5580 - 5590 Shale, gray, brown.
Siltstone and sandstone, as above.
Trace limestone, as above, silty and sandy.

5590 - 5620 Shale, gray.
Siltstone, gray, sandy, limy, quartzose.
Trace limestone, as above.

5620 - 5630 Shale, gray, trace brown, chunky and splintery.
Trace limestone, gray, fossils.
Siltstone and sandstone, as above.

5630 - 5640 Shale, gray, platy, trace interbedded with siltstone, greenish gray, as above.

5640 - 5650 Shale, gray, platy.
Siltstone, green, gray, limy.
Trace limestone, light brown, cryptocrystalline, fossils.

5650 - 5660 Shale, gray, as above.
Siltstone, green gray, limy, quartzose interbedded with shale, gray, as above.

5660 - 5670 Shale, gray, slightly silty, chalky (chunky).
Trace siltstone, gray, very shaly, slightly limy.

5670 - 5700 Shale, gray, as above.
Rare siltstone, gray green, slightly limy, interbedded with shale, gray.
Trace limestone, brown, very fine crystalline @ 5680'.

5700 - 5740 Shale, gray, chunky and splintery.
Trace siltstone, gray green, very slightly limy.

5740 - 5760 Shale, gray, as above.
Trace siltstone, as above.
Trace limestone, light brown, silty, argillaceous, fossils.

5[illegible]0 - 5840 Shale, gray, splintery and chunky, trace limy, trace silty, trace pyritic.

5840 - 5940 Shale, gray, trace silty, trace limy, splintery, firm.

5940 - 6000 Same as above.

6000 - 6120 Shale, gray, trace silty, trace limy, chunky.

[redacted] - 6180 Shale, gray, as above, trace pyritic, trace siltstone, gray green.

6180 - 6190 Shale, gray, as above, rare lime laminations, brown
Trace siltstone, gray, green, limy.

6190 - 6230 Shale, gray, chunky, very slightly limy, rare silty.
Trace limestone, brown, cryptocrystalline, rare pyritic @ 6220'.

6230 - 6380 Shale, gray, trace limy, chunky, rare splintery.

6380 - 6390 Shale, gray, as above.
Rare shale, brownish gray, chunky, very slightly limy.

6390 - 6400 Shale, gray, as above, brown, mottled, (carbonaceous streaks).

6400 - 6410 Shale, gray, as above.
Rare shale, brownish gray, platy and chunky, trace pyritic.

6410 - 6420 Shale, gray, as above, chunky.

6420 - 6430 Shale, as above, trace silty, trace limy.
One chip limestone, brown, shaly.

6430 - 6470 Shale, as above.

[redacted] - 6490 Shale, gray, as above.
Trace shale, darkish gray, bituminous in part.

6490 - 6520 Shale, gray, as above interbedded with darkish gray bituminous shale.
Trace pyritic, trace limestone, brown @ 6500'.

6520 - 6540 Shale, as above, gray, trace pyritic.
Trace black shale, bituminous @ 6540' (dark gray)
Trace siltstone, gray, slightly limy.
Trace dolomite, gray, light brown, fine crystalline.

6540 - 6560 Shale, gray with bituminous laminae as above, trace pyritic.
Rare shale, black, bituminous (dark gray).

6560 - 6570 Shale, as above, gray.
Rare shale, dark gray to black, as above.

6570 - 6580 Shale, as above, dark gray, black.

MUSKWA @ 6580' Lagged to 6554'

6580 - 6630 Shale, black, slightly limy in part, trace pyritic.

PRESQU'ILE LIMESTONE @ 6620' Lagged to 6595'

[redacted] - 6640 Limestone, light brown to darkish brown, rare cream, microcrystalline, argillaceous, fossils filled with sporite, tight, bituminous, trace pyritic, Amphipora.

6640 - 6650 Limestone, dark gray, brown, rare cream, micro to fine crystalline, argillaceous, rare bituminous.
Trace medium to coarse calcite crystals, tight, Amphipora.

6650 - 6660 Limestone, dark gray, brown, cream, micro to fine crystalline, argillaceous, rare chalky, rare fine crystals of calcite, rare calcite veins, trace pyritic.
Rare bituminous, few pelletic chips. Amphipora, rare Amphiporas filled with sporite and calcite.

6660 - 6670 Same as above, Amphipora and Calcisphere, very fine to medium crystalline.

6670 - 6680 Limestone, as above. Amphipora.

6680 - 6690 Limestone, brown, gray, cream, very fine to fine crystalline, rare calcite veins, trace bituminous, slightly argillaceous, tight, no porosity, now show, few chips of dolomite, tight, rare Amphipora.

6690 - 6700 Limestone, dark brown to cream in part, gray, microcrystalline, rare very fine crystalline, argillaceous, tight, Calcispheres, trace bituminous, rare chalky.

6700 - 6730 Limestone, dark brown to cream gray, micro to fine crystalline, trace bituminous, argillaceous, rare fossils lined with very fine calcite, Calcispheres and Amphipora, few chips with pelletic appearance, rare pyritic @ 6730'.
Rare chalky.

6730 - 6740 Limestone, as above, rare pelletic, trace dolomite crystals after acid test.
Amphipora and Calcisphere, Strom.?, tight.

6740 - 6760 Limestone, dark brown to cream, few to rare medium crystalline, argillaceous, rare chalky, pelletic, rare fossils filled with sporite. rare fine crystalline to medium calcite, no porosity, no show. Amphipora, rare clean limestone, cream, trace silt size quartz crystals, trace bituminous.

13' Correction Down, No Samples for 6770' (11' beginning @ 1898')

6770 - 6780 Limestone, as above, pelletic, Amphipora, Calcisphere, trace Strom?

6780 - 6790 Limestone, dark brown, brown to cream, pelletic in part, very fine to micro crystalline, argillaceous, trace pyritic, rare bituminous, rare trace calcite crystal linings, Amphipora, trace Strom?, rare Calcisphere.

6790 - 6810 Limestone, dark brown, rare cream, chalky, micro to fine crystalline, argillaceous, bituminous, pelletic in part, rare fine calcite crystal linings, trace pyrite, some clean lime muds, Amphipora, rare chalky.

6810 - 6830 Limestone, as above.
Limestone, light brown, gray, crypto to microcrystalline (clean), fine calcite crystals, very dense, tight, Calcisphere, bituminous.
Trace calcite crystals, trace chalky, Sporite infills and Amphipora @ 6830'.

6830 - 6840 Limestone, as above, rare cream to clear, fine to medium calcite cement, rare calcite cement around Amphiporas. Coral? Trace dolomitic on acid test.

6840 - 6850 Limestone, brown, as above. Amphiporas, bituminous.
Limestone, gray to very light brown, crypto to micro crystalline, (pelletic in part) tight, very dense, Calcisphere? clean lime mud.

6850 - 6860 Limestone, gray to very light brown, microcrystalline, rare pelletic, rare calcite veins, sporite infills occasionally (clean), Calcisphere?, tight, dense, clean lime mud.

6860 - 6870 Limestone, as above, gray to very light brown.
Limestone, brown, bituminous, as above. Amphipora, Fossils.

6870 - 6880 Limestone, brown, as above, microcrystalline, slightly argillaceous, rare bituminous, pelletic appearance, Amphipora, trace pyritic, dense.
Limestone, cream, very light brown, fine to medium crystalline, rare calcite veins, rare chalky, rare sporite infills. Stroms and Brachiopods?, dense tight.

6880 - 6900 Limestone, brown to dark brown, micro to fine crystalline, argillaceous, bituminous, rare calcite veins, sporite infills. Fossils, Amphipora?
Limestone, cream to light brown, fine to medium crystalline, trace pyritic, Amphipora, dense.

6900 - 6910 Limestone, light gray to very light brown, micro to very fine crystalline, rare pelletic, rare stylolitic, rare sporite infills, trace bituminous, trace pyritic, tight, dense, Brachiopod fragments (almost clean pelletal lime mud).

6[illegible] - 6940 Limestone, light gray to very light brown, as above, chalky in part, tight, sporite infills, Brachiopod.
Limestone, dark brown, fine crystalline, bituminous, argillaceous, partially pelletal, rare fine calcite crystals, tight, dense @ 6940'.
Trace dolomite remains after acid test @ 6940'.

6940 - 6950 Limestone, gray to very light brown, brown to dark brown, as above, pelletal in part, tight.

6950 - 6960 Limestone, very light gray to white, mainly micro to medium crystalline in part, trace bituminous, very chalky, pelletic, soft, brittle, no porosity, Brachiopods? (clean lime mud).
Shale, green pyritic, cavings?

6860 - 6980 Limestone, light gray to white, as above, pelletic, rare stylolite, rare bituminous.
Limestone, brown, fine to very fine crystalline, rare pyritic, rare sporite and calcite infills, pelletal, tight.
Trace shale, green pyritic @ 6980'.

6990 - 7000 Limestone, gray to very light brown, micro to fine crystalline, pelletal, rare pellets cemented by sparry calcite, clean.
Limestone, brown to dark gray, micro to fine crystalline, pelletal, argillaceous rare bituminous, tight.

7[illegible] - 7020 Limestone, gray to very light brown, as above, rare chalky, pelletic, trace pyritic, dense, tight, clean, rare bituminous @ 7020'.

7020 - 7040 Limestone, gray to very light brown, as above, pelletic, Amphipora.
Limestone, dark brown, brown, pelletic, bituminous in part, pyritic, as above.

7040 - 7050 Limestone, brown, dark brown, rare pelletic, rare argillaceous, rare bituminous, rare pyritic, rare needle-like quartz crystals, trace chalky, trace stylolites filled with bitumen, tight.
Trace limestone, gray, pelletic, chalky in part, as above, clean.

7050 - 7060 Limestone, brown to dark brown, as above, needle-like quartz crystals, rare calcareous crystals.
Limestone, gray, as above, rare medium calcite crystal linings, Amphipora clean.

7060 - 7070 Limestone, brown to dark brown, pelletal, as above, rare cemented by sporite.
Trace limestone, gray, pelletal, as above, clean.

7080 - 7110 Limestone, brown, gray to dark brown, as above, rare bituminous, rare pelletal,
Limestone, light brown to gray, rare pelletal, as above, Brachiopod fragments, rare chalky, rare calcite veins, trace stylolite filled with bituminous pyritic, trace partially filled vugs (depressions on edges), Brachiopod fragments, Amphipora, tight.

7110 - 7120 Limestone, brown to dark brown, as above, rare pelletic, tight.
Limestone, light brown, as above, rare pelletic, tight.

7120 - 7160 Limestone, light gray brown to brown, micro to fine crystalline to medium crystalline, pelletal, sporite infills, rare bituminous, rare pyritic, rare fine calcite crystals on rare edges, trace chalky, trace clear calcite veins, with bituminous inclusions, trace stylolites filled with bituminous, light gray limestone, clean.

7160 - 7170 Limestone, as above.
Rare dolomite, light brown gray, medium crystalline, tight and trace dolomite crystals.

7170 - 7180 Limestone, light brown to dark brown, micro to fine crystalline, partially pelletal, rare very fine white calcite linings, rare sporite infills, trace argillaceous, trace bituminous, rare patches of porosity filled with bitumen and fine white calcite crystals. Tight (otherwise), no-show, no cut.
Trace dolomite, white, fine crystalline, bituminous around rhombs, tight, rare limy, no porosity, no show, no cut (trace white, coarse dolomite rhombs)
Trace chalky, white, soft.

Drilling brake @ 7171' (from 8-9 min./ft. to 2-4 min./ft) to 7182'

7180 - 7183 Limestone, as above, chalky in part, trace patches of vugular porosity filled with bitumen, no show, no flor, no cut.
Trace dolomite, as above.
10% chalk, white, interbedded with bitumen, very soft.

Circulate @ 7183'

30 Minute Samples:

Limestone, as above, pelletal, trace patches of vugular porosity, filled with bitumen, partially chalky, rare interbedded with bitumen, no show, no cut.
Trace dolomite, white, as above.
10% chalky, as above.

45 Minute Samples:

Limestone, as above, pelletal, trace patches of vugular porosity filled with bitumen, partially interbedded with bitumen, slightly chalky, otherwise no porosity, no show, no flor.
Trace dolomite, as above, trace medium to coarse white crystals, no porosity, no flor, rare chalky, as above.

60 Minute Circulation Sample:

Limestone, as above, partially pelletal, partially bituminous, partially chalky, rare calcite veins, sporite infills, rare vugualr porosity patches filled with bitumen, otherwise hard, tight, now show, no cut.
Trace dolomite, white, very fine to fine, medium, limy in part, bitumen around rhombs, no porosity, no flor.
10% chalky, as above, soft.

7183 - 7190 Dolomite, light brown to brown-white, medium to coarse crystalline, trace argillaceous, bituminous, trace fair intercrystalline porosity, otherwise tight, no flor, no cut.
Rare scattered medium to coarse white dolomite rhombs.

7190 - 7300 Dolomite, brown to white, medium to coarse crystalline, bitumenous, rare argillaceous, rare fair intercrystalline porosity, otherwise tight, no show, no cut.
Rare scattered white dolomite (medium to coarse) rhombs.

200 - 7210 Dolomite, as above, bituminous, rare argillaceous, rare fair intercrystalline and trace vugular porosity, no flor, no cut.

7210 - 7220 Dolomite, as above, brown to white, fine to coarse crystalline, bituminous, rare fair intercrystalline porosity, otherwise tight, no flor, no cut.

(Circulate for Test)

2 Hours Circulation Sample:

Dolomite, brown to white, fine to coarse crystalline, trace pyritic, bituminous rare fair intercrystalline porosity, otherwise tight, no flor, no cut.

DST #1 Packers from 7158' to 7163'

Tested Interval: 7163-7220 Misrun

DST #2 7145-7220 GTS in 8 min. Gas TSTM, steady throughout test (3' flare)

IHP 3460 FHP 3385 ISI 2781 FSI 2765 IFP 678 FFP 2675
ISI 60 minutes VO 90 minutes FSI 60 minutes

Recovery:
250' gas cut mud
1000' mud cut salt water
4545' salt water, sulphur cut
Total: 5795'

7220 - 7230 Dolomite, brown, very fine to fine crystalline, bituminous, trace silty (qutz?) trace pyritic, no visible porosity, no cut, no flor.
Rare dolomite, brown to white, medium to coarse crystalline, as above, no flor no cut.

7230 - 7240 Dolomite, brown, fine to medium crystalline, trace bituminous, trace with fair intercrystalline and vugular porosity, otherwise tight.
Dolomite, white, interbedded with medium to coarse crystalline, tight.

7240 - 7250 Dolomite, brown, white, medium to coarse crystalline, partially fine crystalline, partially bituminous, rare scattered medium to coarse white clusters of dolomite rhombs, tight.
Couple of chips - clusters of quartz needle crystals between coarse white dolomite rhombs with good intercrystalline porosity, no flor, no cut.
Trace coarse calcite crystals.
Trace limestone, light brown, very fine crystalline, trace quartz needle-like crystals (caving?)

7250 - 7270 Dolomite, light brown to white, fine to coarse crystalline, rare bituminous
Trace pyritic, trace intercrystalline prosity, nc cut, no flor, otherwise tight.
Limestone, light brown, crypto to micro crystalline, rare interbedded needle quartz crystals, tight, (cavings?)

7270 - 7275 Dolomite, brown to dark brown, fine to trace medium crystalline, bituminous, trace patches of intercrystalline and partial vugular porosity, tight, no cut, no flor (sucrosic appearance).

7275 - 7280 Dolomite, brown, dark brown, sucrosic appearance (fine crystalline, trace patches of medium crystalline), bituminous, trace pyritic, trace fair intercrystalline porosity.

280 - 7290 Dolomite, light brown to brown, sucrosic appearance (mainly fine crystalline) rare medium crystalline, trace rare patches of fair intercrystalline porosity, bituminous, trace pyritic, tight, no cut, no flor.

7290 - 7300 Dolomite, as above, trace (few chips) medium crystalline, fair to good intercrystalline porosity, trace medium white dolomitic rhombs on some chips.

7300 - 7315 Dolomite, gray to dark brown, fine, vugs lined with medium crystalline, sucrosic, rare with fair to good intercrystalline porosity (some with vugular)
No flor, no cut.

Submitted by: H. T. CETINAY

April, 1970

Chronological Summary of Drill Stem Tests
(Pressure Recorder Readings)

	DST No. 1 March 16/70	DST No. 2 March 17/70
Formation	Presqu'ille	Presqu'ille
Interval	7165-7220	7145-7220
Initial Flow Time (Mins.)	-	5
Initial Shut in Time (Mins.)	-	60
Final Flow Time (Mins.)	-	90
Final Shut in Time (Mins.)	-	60
Initial Hydrostatic Press. (Psi)	-	3479
Initial Shut in press. (Psi)	-	2827
Initial flow press. (Psi)	-	747
Final Flow press. (Psi)	-	2696
Final shut in press. (Psi)	-	2801
Final hydrostatic press. (Psi)	-	3368

Flow Rate and Remarks:

#1 - Misrun. No packer seat.

#2 - Good air blow on preflow. Good gas blow steady throughout test TSTM.

Pipe Recovery and Remarks:

#1 - Misrun

#2 - 250 feet gas cut mud, 1000 feet mud cut salt water, 4545 feet salt water.

b) Casing Record:

Casing Size (Inches)	Grade	Weight (lbs/ft)	Amount (feet)	Set at feet KB	Cement and additives
10 3/4	K-55	40.5	778	795	700 sacks of Type A Construction Cement plus 2% $CaCl_2$

c) Bit Record:

No.	Serial Number	Type	Size (Inches)	Hours Run	Depth IN	OUT	Footage	Make
1A	98502	OSC3	15	35½	Surf	514	497	Hughes
2A	97674	OSC3	"	10 3/4	514	795	281	Hughes
1	95912	OSC3	8 3/4	28½	795	2146	1351	"
2	20302	XIGJ	"	16	2146	2720	574	"
3	21871	"	"	16½	2720	3220	500	"
4	21865	"	"	41	3220	4010	790	"
5	18753	XIGJ	"	79¼	4010	4893	883	"
6	21867	XIGJ	"	35¼	4893	5331	438	"
7	22625	"	"	56 3/4	5331	5970	639	"
8	20714	"	"	60	5970	6678	708	"
9	751252	SHG-J	"	37¼	6678	6975	297	"
10	19741	X7J	"	30¼	6975	7182	207	Hughes
11	860384	SHG-J	"	14¼	7182	7315	133	"

d) Mud Report:

The mud system used the following:

Gel	1337 sacks
Rapid Drill	190 sacks
Caustic	28 sacks
Soda Ash	9 sacks
Lime	1 sack

e) Deviation Record:

Depth (Feet KB)	Deviation (Degrees)
74	3/4
163	1/8
254	1/4
343	3/4
374	1/2
430	3/4
460	1/2
492	1/2
553	1/2
640	1/4
740	1/2
795	1/2
1238	1
1329	3/4
1455	1/4
1640	3/8
1769	3/8
1953	1/4
2108	1/8
2295	3/8
2514	3/8
2780	1/8
2999	1/4
3216	1 1/4
3279	1 1/4
3340	1
3370	1 1/8
3435	1 1/8
3529	1
3623	7/8
3749	3/4
3843	3/4
4938	1/4
4000	3/4
4060	1/2
4155	5/8
4245	3/4
4340	3/4
4435	3/8
4525	5/8
4621	1
4714	1
4873	1
5030	7/8
5280	15/16
5700	1/4
6175	1/8
6265	1/2
6364	15/16
6460	5/8
6553	3/16
6668	1/2

Depth (Feet KB)	Deviation (Degrees)
6745	1/8
6835	2
6869	1 7/8
6931	2 5/8
6970	2 5/8
6985	3
7015	2 5/8
7056	2 5/8
7110	2 3/4
7141	2 3/4
7315	1 3/4

f) Abandonment Plugs

Plug No.	Date	Interval Feet KB	Amount of Cement	Depth at which plug felt
1	March 19/70	7315-7000	170 sacks of Construction Cement plus 2% Retarder.	Not felt
2	March 20/70	850-750	65 sacks of Construction Cement.	738 feet KB

On March 20, 1970, the surface casing was cut off 3 feet below ground level, a five (5) sack plug was cemented in the top of the casing, and a steel plate was welded across the casing stub. The appropriate identification sign was erected as per Section 15(5) and (6) of the Canada Oil and Gas Drilling and Production Regulations.

g) Lost Circulation:

None encountered.

h) Report of Blowouts: None.

SECTION IV - LOGS

Three copies of each log were forwarded to the Department of Indian Affairs and Northern Development in Calgary on April 23, 1970.

Date	Run No.	Interval (Ft. KB)	Type	Scale
March 19/70	1	7311-795	DIL	2"
"	1	7311-6400		5"
"	1	7313-795	BHC-SGR	2"
"	1	7313-6400		5"
"	1	7300-4930	Continuous Dipmeter	5" & 60"

NOTE: All logs run by Schlumberger.

SECTION V-ANALYSIS

a) Core Analysis: None cut

b) Water Analysis: Three copies of water analysis for DST #2 were forwarded to the Department of Indian Affairs and Northern Development in Calgary on April 23, 1970.

Lab No. E70-664-4

c) Gas Analysis: N.A.

d) Oil Analysis: N.A.

SECTION VI COMPLETION SUMMARY

a) Tubing Record: N.A.

b) Perforation Record: N.A.

c) Cementation Record:

Plug No.	Date	Interval Feet KB	Amount of Cement Used	Depth at which plug felt
1	March 19/70	7315-7000	170 sacks of Construction Cement plus 2% Retarder.	Not felt
2	March 20/70	850-750	65 sacks of Construction Cement.	738 feet K

d) Acidization and Fracturing Record: N.A.

e) Back Pressure and Production Test: N.A.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS Lab No. E70-66

Received: Mar. 26,1970 Reported: Apr. 6, 1970 Well: Location: HB Petitot C-60

Operator: HUDSON' S BAY OIL AND GAS COMPANY LIMITED Field or Area: N.W.T. (Wildcat)

Elev.: K.B. 1956' Grd. 1949' Zone/Formation: Presquille Sample Interval: 7145' - 7220'

Method of Production: D.S.T. #2 Sampled from: top of tool Sampled by: R.Brown Date: Mar. 18,1970

OTHER PERTINENT DATA

Recovered: 250' mud, 1000' mud cut salt water, 4545' sulfur cut salt water.
Temperature at point of sampling: 169°F.

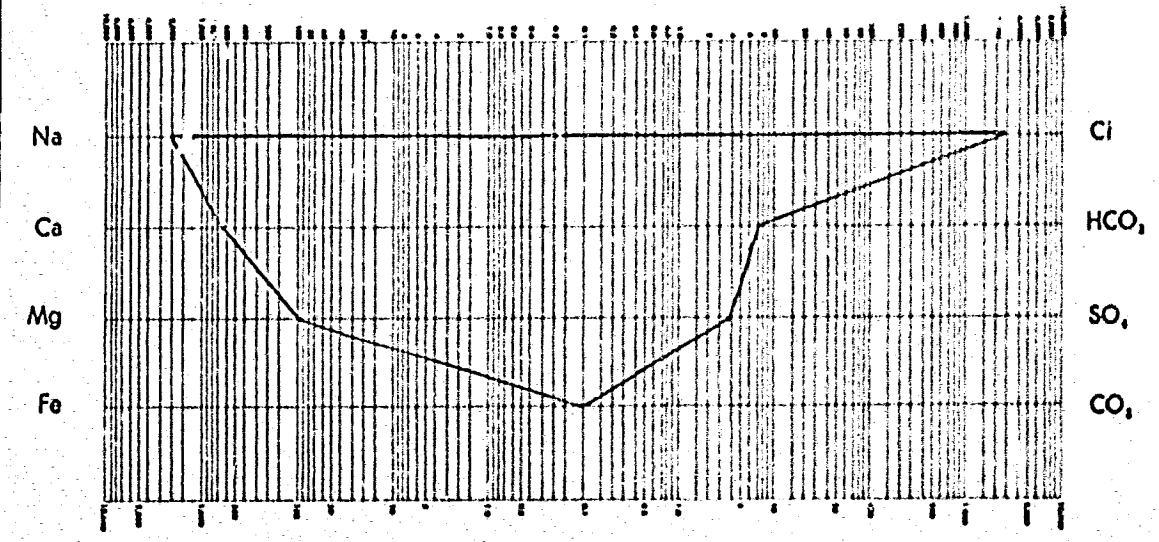
(Signed) R. Brown; R.B.O.G.

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	46270		12933	1142					191	97200				427		
Meq./L	2012.79		645.35	93.88					3.98	2741.04				7.00		
Meq. %	36.57		11.72	1.71					0.07	49.80				0.13		

Total Solids Mg/L: By Evaporation 176,520 Fe present Specific Gravity 1.113 @60°F Observed pH 6.1 @ 79 °F

Calculated 158,164 After Ignition 155,380 H_2S present Refractive Index 1.3670 @25°C Resistivity 0.070 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Sample consisted of colourless water with 5% sediment.

continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

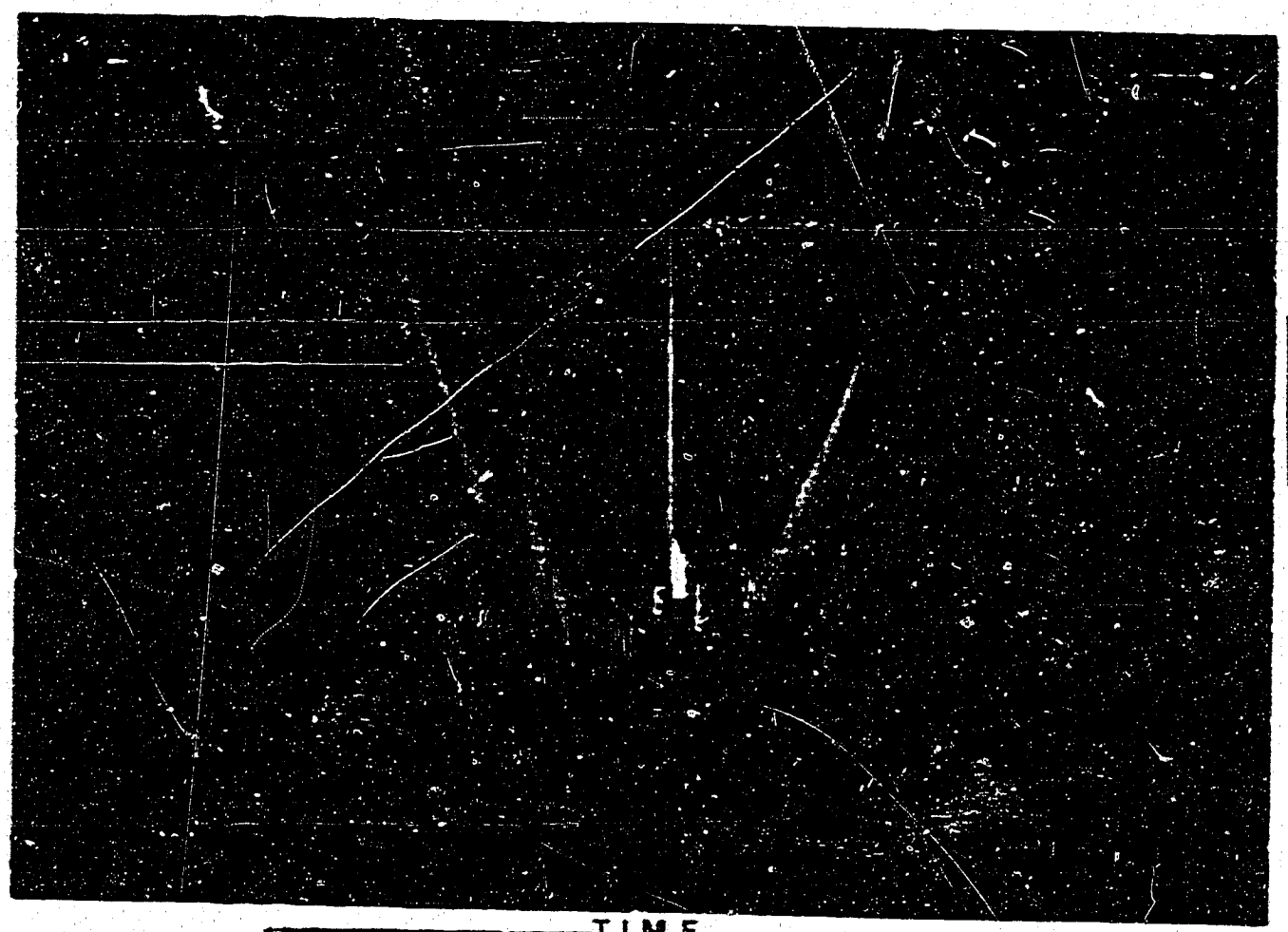
OPERATOR: HUDSON'S BAY OIL AND GAS COMPANY LIMITED REPORT NUMBER: E70-664

DATE SAMPLED: March 18, 1970 DATE RECEIVED: March 26, 1970 DATE REPORTED: April 6, 1970

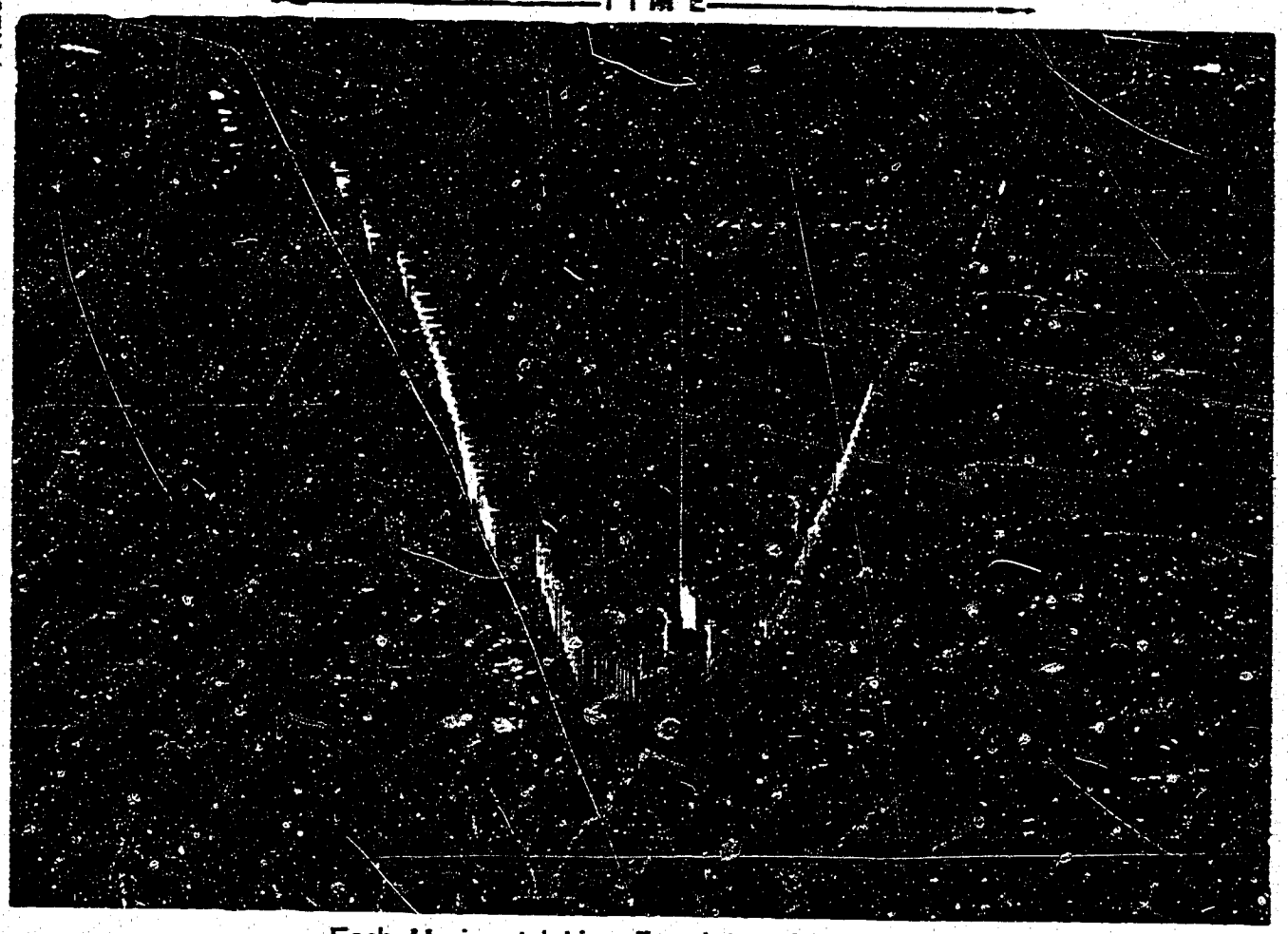
Kind of Sample: Water Well: Location: HB Petitot C-60 N.W.T. (Wildcat)

LABORATORY NUMBER	SAMPLED FROM	RESISTIVITY (Ohm-meters at 68°F.)	Remarks
E70-664-1	5535' above tool	0.112	Sample consisted of mud with 10% layer of colourless free water.
E70-664-2	4625' above tool	0.080	60% mud, 40% colourless free water layer. H_2S present.
E70-664-3	358' above tool	0.071	Colourless water with 5% sediment layer. H_2S present.

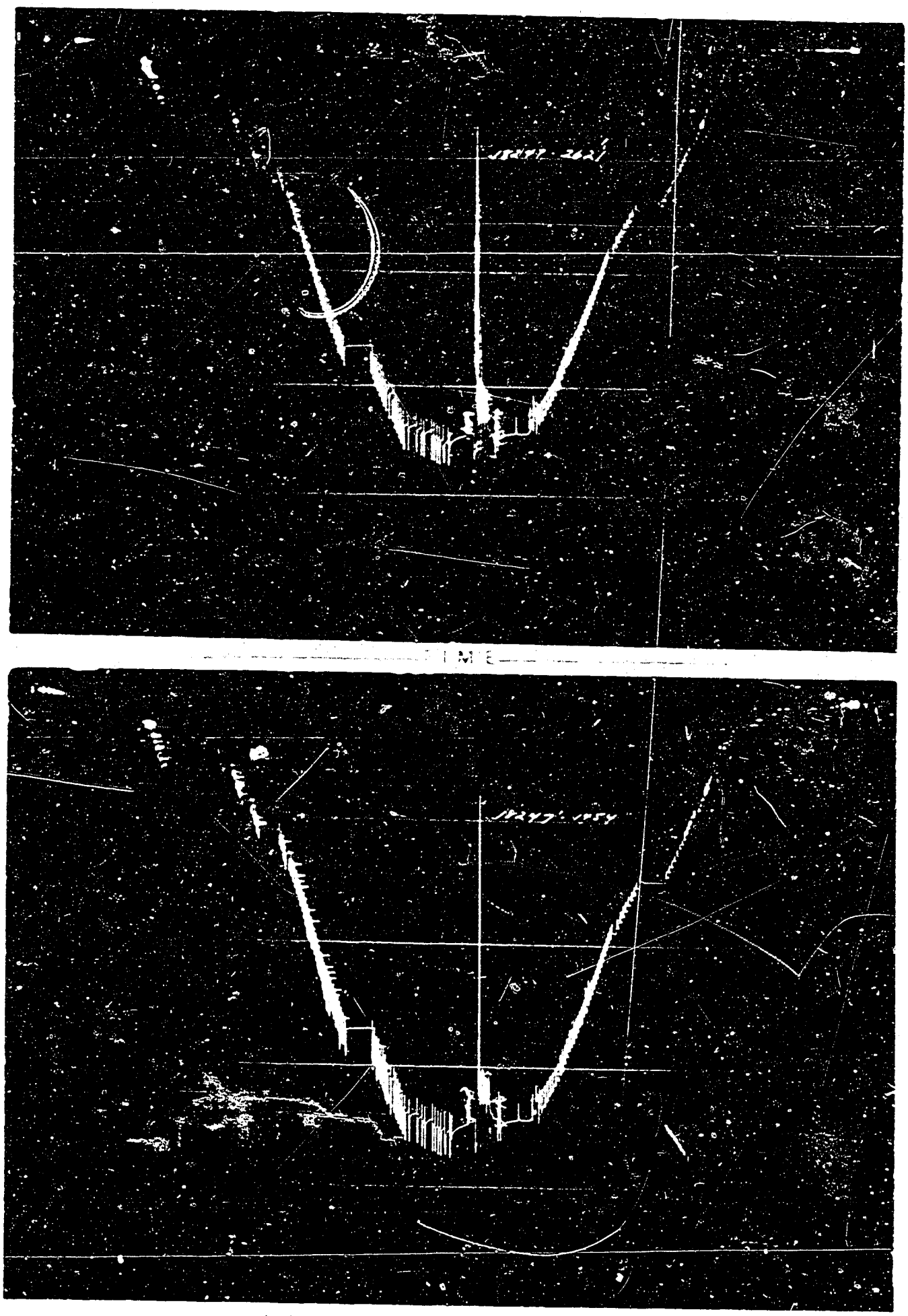
PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.



Each Horizontal Line Equal to 1000 p.s.i.

Depth Top Gauge	7147 Ft.	Blanked Off	No	Date	March 16, 1970
BT P.R.D. No.	2621		9870 12 Hr. Clock	Kind of Job	Dual Bottom Hole
Pressure Readings	Field	Office Corrected		Tester	S. Duplessis
Initial Hydro Mud Pressure	3460	3411		Contractor	Nabors Drilling Limited
Initial Closed in Pressure				K B Elevation	1956
Initial Flow Pressure				Total Depth	7220
Final Flow Pressure				Interval Tested	7165-7220
Final Closed in Pressure				Hole Size	8 5/8
Final Hydro Mud Pressure	3430	3411		Size Surface Choke	Size Bottom Choke 5/8"
Depth Centre Gauge	Ft.	Blanked Off		Size Drill Pipe	4 1/2 FH
BT P.R.D. No.			Hr. Clock	Anchor I.D. Size O.D.	5"
Pressure Readings	Field	Office Corrected		Gauge Depth	Temp. 130 °F meas. °F est.
Initial Hydro Mud Pressure				All Depths Measured From	K.B.
Initial Closed in Pressure				1st Flow	Initial CIP 2nd Flow Final CIP
Initial Flow Pressure				Recovered	Feet of
Final Flow Pressure				Recovered	Feet of
Final Closed in Pressure				Recovered	Feet of
Final Hydro Mud Pressure				Recovered	Feet of
Depth Bottom Gauge	7217 Ft.	Blanked Off	Yes	Oil Recovery Degrees API	Water Recovery Specific Gravity
BT P.R.D. No.	1454		2591 12 Hr. Clock	REMARKS:	Misrun. No packer seat.
Pressure Readings	Field	Office Corrected			
Initial Hydro Mud Pressure		3430			
Initial Closed in Pressure					
Initial Flow Pressure					
Final Flow Pressure					
Final Closed in Pressure					
Final Hydro Mud Pressure		3430			

Ticket No.	T 18247				
HOWCO District	Ft. St. John				
Witness	R. Brown				
Bottom Packer Depth					
Casing Perforations Top Bottom					
Formation Tested	Presqu'ile				
Liner or Rathole Size					
Size and Type Well Packer	7 3/4"ES				
ID and Length Drill Collars	2 7/8" x 358'				
Amount-Type of Cushion					
Mud Weight	9.5	Mud Viscosity	240		
No. Folders Reproduced	5				

LEGAL DESCRIPTION 121 25'36.70 60 09'01.74

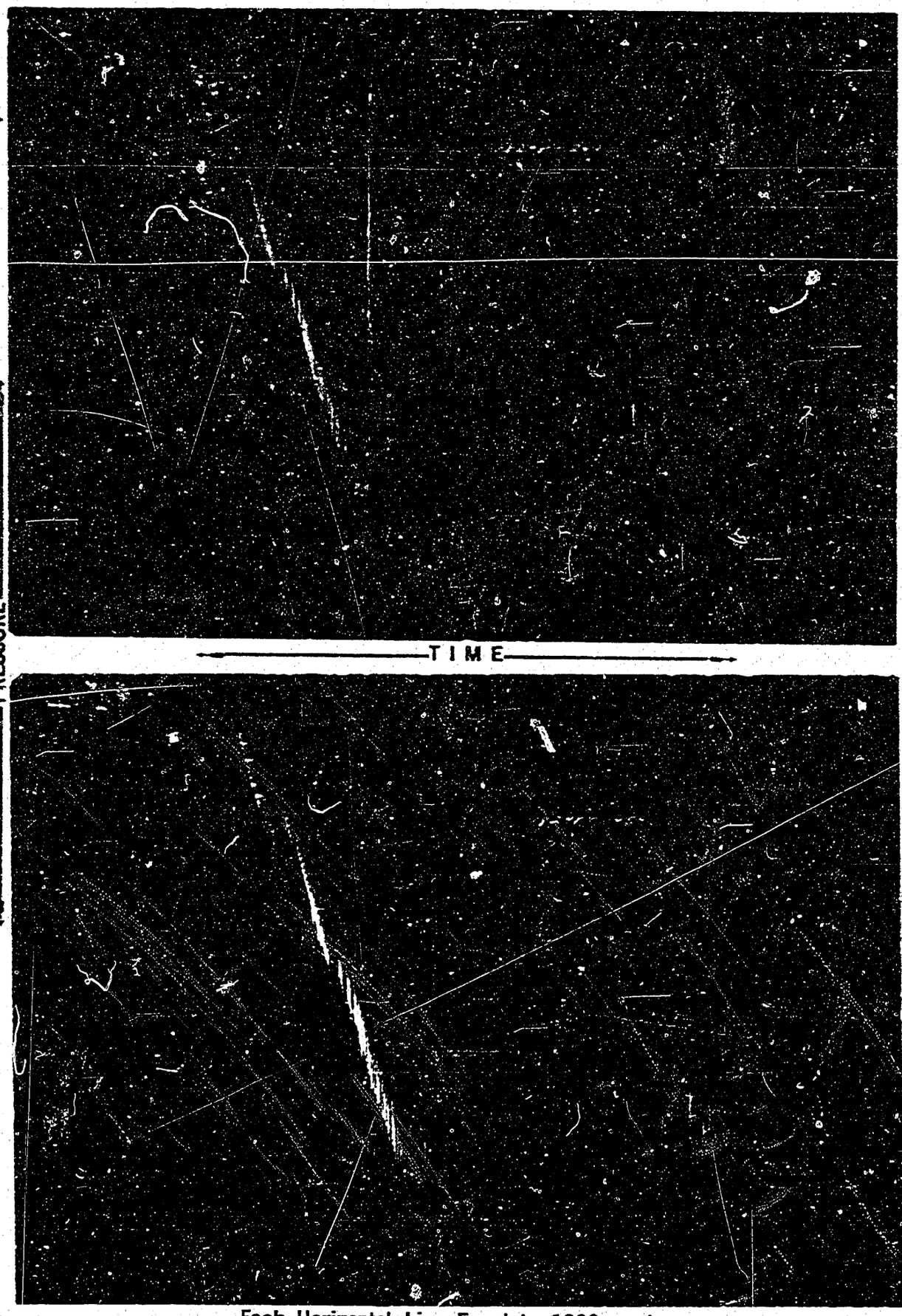
H.B. PETITOT Lease Name — C-60. Well No. — 1 Test No. — CALGARY Owner's District — HUDSON'S BAY OIL & GAS CO. LTD. Lease Owner

FIELD OR AREA PETITOT RIVER

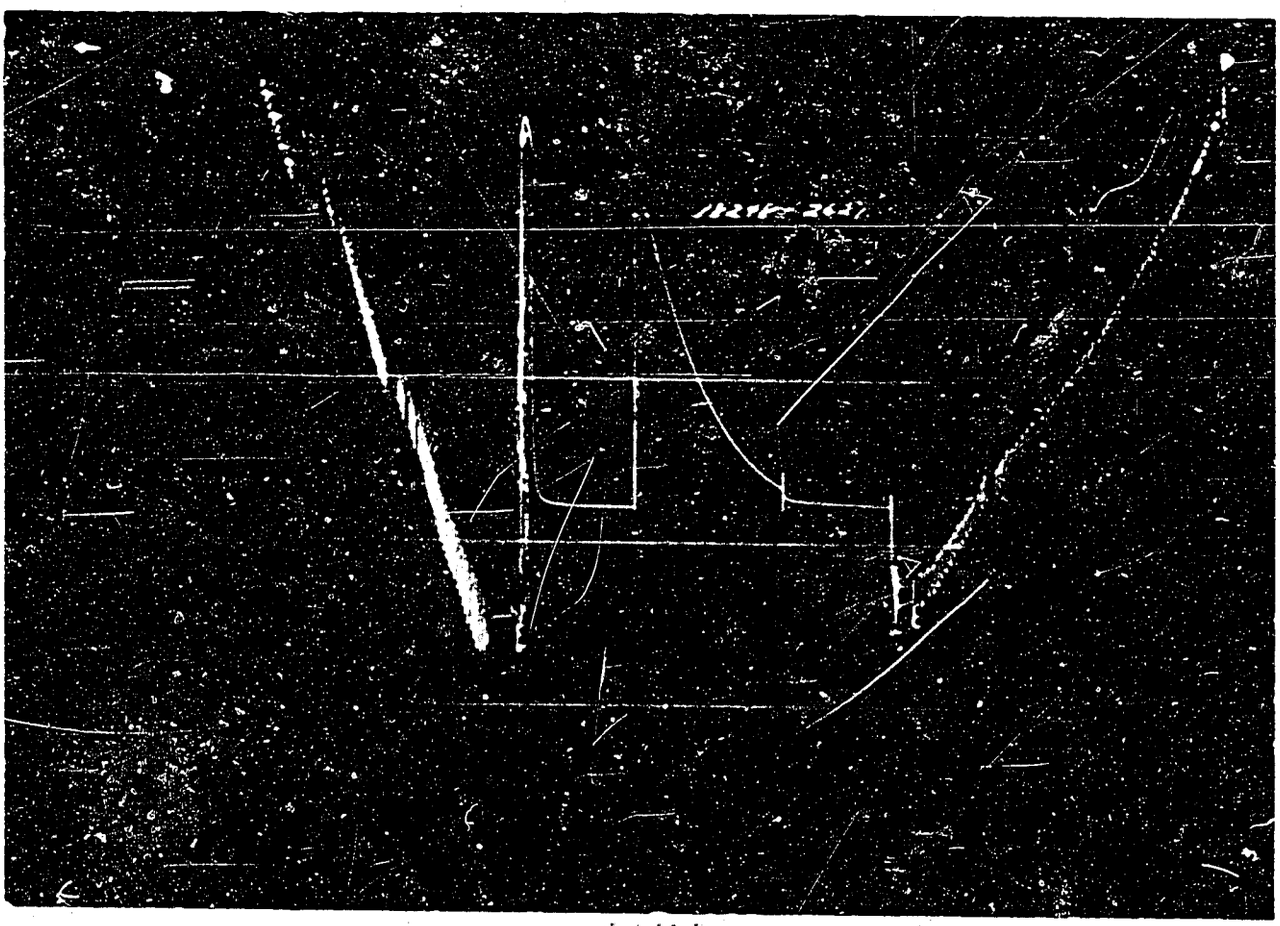
PROVINCE N.W.T.

FORM 233

DRILL STEM TEST DATA

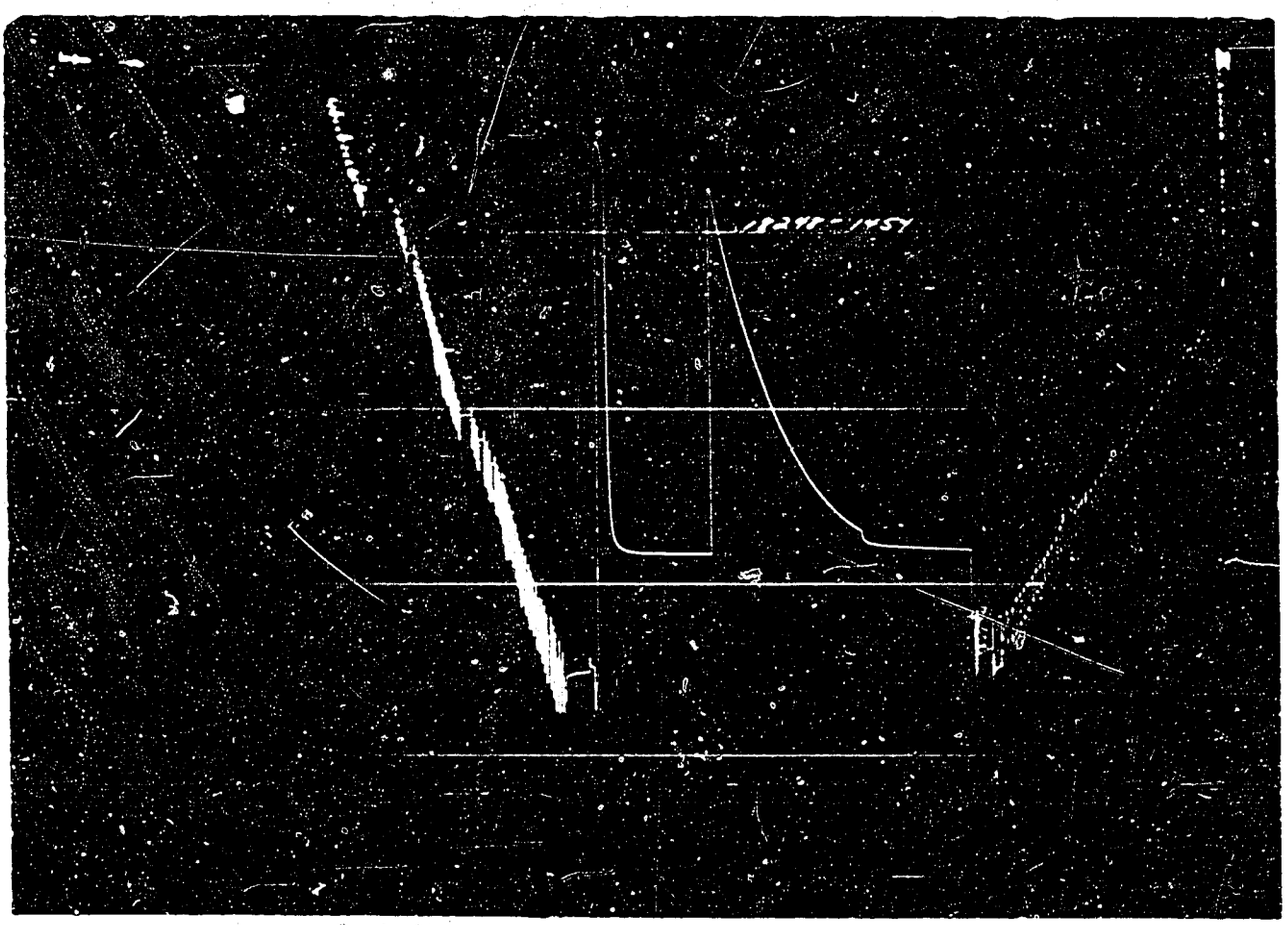


Each Horizontal Line Equal to 1000 p.s.i.



PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.

Depth Top Gauge 7127 Ft.	Blanked Off No	Date March 17, 1970	Ticket No. T 18248
BT P.R.D. No. 2021	9870 12 Hr. Clock	Kind of Job Dual Bottom Hole	HOWCO District Ft. St. John
Pressure Readings	Field / Office Corrected	Tester S. Duplessis	Witness R. Brown
Initial Hydro Mud Pressure	3460 / 3438	Contractor Nabors Drilling Limited	
Initial Closed in Pressure	2781 / 2784	K B Elevation 1950 Top Packer Depth 7145	Bottom Packer Depth
Initial Flow Pressure	678 / 677	Total Depth 7220 Casing Perforations Top / Bottom	
Final Flow Pressure	2675 / 2659	Interval Tested 7145-7220	Formation Tested Presqu'ile
Final Closed in Pressure	2765 / 2766	Kelly/Rotary Hole Size 8 5/8	Liner or Rathole Size
Final Hydro Mud Pressure	3385 / 3345	Size Surface Choke / Size Bottom Choke 5/8"	Size and Type Wall Packer 7 3/4" ES
Depth Centre Gauge Ft.	Blanked Off	Size Drill Pipe 4 1/2 FH	ID and Length Drill Collars 2 7/8" x 358'
BT P.R.D. No.	Hr. Clock	Anchor I.D. / Size O.D. 5"	Amount-Type of Cushion
Pressure Readings	Field / Office Corrected	Gauge Depth Temp. 130 °F meas. / °F est.	Mud Weight 9.5 Mud Viscosity 230
Initial Hydro Mud Pressure		All Depths Measured From K.B.	No. Folders Reproduced 5
Initial Closed in Pressure		Time Periods (Minutes) 1st Flow 5 Initial CIP 60 2nd Flow 90 Final CIP 60	
Initial Flow Pressure		Recovered 250 Feet of Gas Cut Mud	
Final Flow Pressure		Recovered 1000 Feet of Mud Cut Salt Water	
Final Closed in Pressure		Recovered 4545 Feet of Salt Water	
Final Hydro Mud Pressure		Recovered Feet of	
Depth Bottom Gauge 7217 Ft.	Blanked Off Yes	Oil Recovery Degrees API	Water Recovery Specific Gravity
BT P.R.D. No. 1454	2591 12 Hr. Clock	REMARKS: Tool open 2:25 pm with good air blow.	
Pressure Readings	Field / Office Corrected	Shut in at 2:30 pm. Tool open at 3:30 pm	
Initial Hydro Mud Pressure	/ 3479	with good gas blow immediately upon opening	
Initial Closed in Pressure	/ 2827	tool. Steady throughout, but too small to	
Initial Flow Pressure	/ 747	measure. Shut in at 5:00 pm. Pulled loose	
Final Flow Pressure	/ 2696	at 6:00 pm.	
Final Closed in Pressure	/ 2801		
Final Hydro Mud Pressure	/ 3368		

LEGAL DESCRIPTION 121 25'36.70 60 09'01.74 — Lease Name H.B. PETITOT — Well No. C-60 — Test No. 2 — Operat's District CALGARY — FIELD OR AREA PETITOT RIVER — Lease Owner HUDSON'S BAY OIL & GAS CO. LTD. — PROVINCE N.W.T.

FORM 233

DRILL STEM TEST DATA

H. B. Petitot
C-60

HB PETITOT C-60 - Tour Reports

D.A. 419

[redacted]

HB Petition C-60

52 - 88AX4
REV.3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME Hbog Petrol C-60 | LDG. FLG. TO KB 1500 | DATE Mar. 20 - 70.

CONTRACTOR Nabors Drlg Ltd | TYPE RIG National 50 A | K. B. ELEV. 1456

RIG NO. 6 | TOOL PUSHER E. Price | GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795'	10¾	40.5	K55	700 Sx			
					2% CaCl₂			

12 P.M. TO 8 A.M.

DEPTH START 731.5 PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	731'				

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES Plug #2 750 - 550. 65 Sax cont cement Plug down @ 7 30 AM.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12⁰⁰	12³⁰	TRIP OUT 12 STDS
12³⁰	1⁰⁰	RIG UP TO LAY DOWN PIPE
1⁰⁰	5¹⁵	LAY DOWN PIPE
5¹⁵		REPLACE BROKEN TONG HANGER
	5⁴⁵	LINE
5⁴⁵	6⁴⁵	RUN IN 11 STD & LAY SAME DOWN
6⁴⁵	7⁰⁰	RUN IN 9 STDS
2⁰⁰	7¹⁵	RIG UP TO RUN PLUG
7¹⁵	8⁰⁰	RUN PLUG

DRILLER Dan Duggan NO. HELPERS 4

8 A.M. TO 4 P.M.

START PROGRESS END

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK
5⁰⁰	4⁰⁰	W.O.C.
		RIG OUT B.O.P.
		DRAIN PUMPS.
		CLEAN TANKS.

DRILLER R. Negus NO. HELPERS 4

4 P.M. TO 12 P.M.

START PROGRESS END

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES Field plug #2 @ 738 x 15. @ 4⁵⁰ P.M.

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK
4⁰⁰	4³⁰	Trip in Set plug #2.
4³⁰	5⁻⁵⁰	Lay down DP
5³⁰	7⁰⁰	Cut head & dump 5 sax in Cellar + weld on plate + Sign.
	8⁰⁰	
8⁰⁰	12⁰⁰	Tear out.
		Rig released @ 8 PM.

DRILLER NO. HELPERS

52 - 88AX4
REV. 3/09

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 19/70

WELL NAME HBOG PETITOT C-60
CONTRACTOR NABORS DRLG LTD
RIG NO. 6
TYPE RIG NATIONAL 50 A.
TOOL PUSHER E. PRICE

LDG. FLG. TO KB 1500
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K-55	700 SX 2% CaCl2			R. Brown.

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 7315' PROGRESS END 7315'	START PROGRESS END 7315'	START PROGRESS END

BIT RECORD

NO	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	LOGGING						

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	654	6.68 31.44	716.06	17.04	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
		LOGGING			

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12.00	12.15	Rig up To Log.
12.15	8.00	Log w/ SCHLUMBERGER.
		DIL. Log 14" - 795' 2"
		6400 - 7315' 5"
		BHC Sonic 14" - 795' - 2"
		6400 - 7315' -
		Caliper Dipmeter 795 - 5350 5" - 60"
		6400 - 7400
		6900 - 7300

DRILLER S. Hopkins NO. HELPERS 4

START PROGRESS END 7315'							
NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	654	6.68 31.44	716.06	17.04	3.78

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8.00	12.30	LOG W/ SHLUMBERGER
12.30	1.00	LAY DOWN SHLUMBERGER
1.00		RON IN W/ D. PIPE +
		D. COLLARS. START LAY
	4.00	DOWN D. COLLAR.

DRILLER P. Hayes NO. HELPERS 4

START PROGRESS END							
NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
Plug #1	7315 - 7000'		70 Sec.		

ADDITIVES Const. Cement 2% retarder. Plug down @ 11 PM.

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
4.00	4.15	Rig. Serv. & Bops.	1/4
4.15	5.45	Lay Down Collars	1 1/2
5.45		Finish Running in w/ Pipe	
	8.00	+ Pick up 23 more singles	2 1/4
8.00		Circulate To Run Plug	
	10.30	#1	2 1/2
10.30	11.15	Plug #1	3/4
11.15	12.00	Hoist 9 stds	5/4
			8

DRILLER L. Shanna NO. HELPERS 4

52 - 8BAX4
REV 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Mar. 18 / 70.

WELL NAME	HBOG Petitot C-60	LDG. FLG. TO KB	1500	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	Nabors Drlg Ltd	TYPE RIG	National 50 A	K. B. ELEV.	1956		795	10 3/4	40.5	1555	700 Sx 2% CaCl			[signature]
RIG NO.	6	TOOL PUSHER	E. Price	GRD. ELEV.	1939								

12 P.M. TO 8 A.M.

DEPTH: START 7220 PROGRESS 25' END 7245

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	860384 R.R.	SHGJ	8 3/4	7182	7245	63	7 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	1275	60	40

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6484.80		716.06	39.36	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
Gel Water	9.6	600+	8.1	9.0	2/32

ADDITIVES: Water.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	12:30	Load out testing tools
12:30	12:45	Rig service close blind rams
12:45	4:30	Trip in w/bit
4:30	5:00	Brk circ clean to bottom 5' fill
5:00	8:00	Drill

DRILLER [signature] NO. HELPERS 4.

8 A.M. TO 4 P.M.

DEPTH: START 7245 PROGRESS 70 END 7315

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	860384	SHGJ	8 3/4	7182	7315	133	14 1/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	1300	60	40 M.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6546.68	3144	716.06	17 -	3.84

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
Gel & Water	10 A.M. 9.5	400	8.2	9.0	2/32

ADDITIVES: Water. Gel. Caustic 50#

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8:00	8:15	Rig service close 4 1/2" rams	1/4
8:15	3:00	Drill	6 3/4
3:00	4:00	Circulate & cond hole. To log.	1
			8

DRILLER NO. HELPERS

4 P.M. TO 12 P.M.

DEPTH: START 7315 PROGRESS 00 END 7315

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
11	860384	SHGJ R.R.	8 3/4	7182	7315	133	14 1/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15			

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6546.68	3144	716.06	17 -	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1 3/4 DEG. AT 7315 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
4:00	4:15	Rig service. C.K. Hydril	1/4
4:15	7:15	Circulate to log.	3
7:15	7:30	Pump survey @ 7315	1/4
7:30	11:00	Hoist & measure out.	3 1/2
11:00	11:30	Wait on log truck.	1/2
11:30	12:00	Rigging up to log.	1/2
			8

DRILLER C. Shannon NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE: MARCH 17 1970

WELL NAME	HB OG. PETITOT C-60
CONTRACTOR	NABORS DRLG LTD
TYPE RIG	NATIONAL 50 A.
RIG NO.	6
TOOL PUSHER	E. PRICE
LDG. FLG. TO KB	1500
K. B. ELEV.	1956
GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K-55	700SX 2% CaCl2			R. BROWN

12 P.M. TO 8 A.M.

DEPTH: START 7220 PROGRESS END

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
19	860 384 R.R.	SHG5	8 3/4				

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
15 X 5 1/2	1200	–	–

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	~~6864~~ 6484.80		716.06	15.36	3.78

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL WATER					

ADDITIVES:

CORING: NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES: IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
12:00	12:30	RUN IN
12:30	12:45	BREAK CIRC CLEAN TO BOTTOM
12:45	4:45	CIRCULATE.
4:45	8:00	TRIP OUT.

DRILLER NO. HELPERS

8 A.M. TO 4 P.M.

DEPTH: START PROGRESS END

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES:

CORING: NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES: IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8:00	8:30	TRIP OUT.	1/2
8:30	8:45	RIG. C.K + CLOSE BLIND RAMS.	1/4
8:45	10:30	MAKE UP TESTING TOOLS.	1 3/4
10:30	11:00	RUN IN COLLARS.	1/2
11:00	11:45	SLIP + CUT LINE	3/4
11:45		RUNNING IN W/ TOOL + HEAD	
	2:30	UP SAME.	2 3/4
2:30	4:00	TESTING #2 (7145-7220)	1 1/2
			8.

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 7220 PROGRESS END

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6484.80		716.06	15–	3.78.

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES:

CORING: NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 3/4 DEG. AT 7142 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS: NO. 2 INTERVAL 7145-7220 FORMATION [illegible]
VALVE OPEN (MINS.) 90 INITIAL SHUT-IN (MINS.) 60 FINAL SHUT-IN (MINS.) 60
GAS TO SURFACE 8 MIN. @ TSTM. MCF/D MAX.
OIL TO SURFACE 3' flair steady MIN. @ BBL/D MAX.
RECOVERY: 232' Gas cut mud 1000' mud cut S.W. 4545' [illegible] S. water.

PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP
	3460	3385	678	2675	2781	2765

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
4:00	6:00	TESTING #2 -(7145-7220)	2.
6:00		PULL TOOL LOOSE + REMOVE	
	6:15	HEAD + LINES	1/4
6:15		PULL PACKER 57 WET STDS	
	10:15	PIPE 4 STDS COLLARS, SALT WATER	4
10:15		BREAK + LAY TOOL ON FLOOR	
	12:00	+ WASH SAME.	1 3/4
			8.

DRILLER L. Shannon NO. HELPERS 4

52 - 8BAK4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MARCH 16 1970.

WELL NAME	H806 PETITOT C-60	LDG. FLG. TO KB	1500
CONTRACTOR	NABORS DRLG LTD	K. B. ELEV.	1956
RIG NO.	6	GRD. ELEV.	1939
TYPE RIG	NATIONAL 50 A		
TOOL PUSHER	E. PRICE		

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K-55	700 SX 2% CaCl2			R. BROWN

12 P.M. TO 8 A.M.

DEPTH: START 7220 PROGRESS END 7220

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL WATER.					

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES: IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12.00	8.00	WAIT ON TESTER.

DRILLER NO. HELPERS

8 A.M. TO 4 P.M.

DEPTH: START 7220 PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL	KELLY IN	CORE BBL.
4 1/2	6484.80		716.06	15.36	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. 1 INTERVAL 7163 - 7220 FORMATION Bluesky

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE Slight Show BBL/D MAX.

RECOVERY: Mud.

PRESSURES: IHP 3460 FHP 3410 IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8.00	8.15	RIG SERV. B.O.P. MOTORS.
8.15	9.30	PICK UP TESTING TOOL
9.30	2.15	TRIP IN SLOW
2.15	2.45	PICK UP 9 SINGLES
2.45	3.00	RIG UP TESTING HEAD.
3.00	4.00	TESTING MISS RUN

DRILLER R. Hegley NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
11	860384	SHG	8 3/4	CLEAN	OUT	TR.	

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2.	6453.37	31.43.	716.06	15	3.78.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES: IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4.00	4.15	Rig. C.K. 1/4
4.15	7.30	HOIST PACKER #1 37 WET STDS PIPE & STDS COLLARS 3 1/4
7.30	9.15	BREAKING TOOL & LAY DOWN SAME ON RIG FLOOR. WASH FLOOR & TOOL. 13/4
9.15	12.00	MAKE UP BIT & RUN IN TO COND. HOLE FOR TEST #2 2 3/4

DRILLER L. Shannon NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Mar. 15 - 70

WELL NAME HBOG. PETITOT C-60
CONTRACTOR NABORS DRLG LTD. TYPE RIG NATIONAL 50 A.
RIG NO. 6 TOOL PUSHER E. PRICE

LDG. FLG. TO KB 1503
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795'	10 3/4	40.5	K55	700 SX 2% $CaCl_2$			R. BROWN

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 7182 PROGRESS 38 END 7220	START 7220 PROGRESS NIL END 7220	START 7220 PROGRESS 0 END 7220

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
11	860384	SHGJ	8 3/4	7182	7220	38	4 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1100	60	35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	64 53 37	31.43	716.06	15.36	378

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 4AM	9.6	225	6.0	10.5	2/32
WATER 6"	9.6	210			

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	2:30	2 1/2 RUN IN
2:30	2:45	1/4 BREAK CIRC CLEAN 10' FILL
2:45	3:00	1/4 RIG SERVICE CLOSE 4 1/2 RAMS.
3:00	6:15	3 1/4 DRILL
6:15	7:00	3/4 SPOOK ON SAND LINE
7:00	8:00	1 DRILL.

DRILLER [signature] NO. HELPERS 4

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8 A.M. TO 4 P.M.

START 7220 PROGRESS NIL END 7220

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
11	860384	SHGJ	8 3/4	7182	7220	38	4 1/2

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1100		

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	64 53 37	31.43	716.06	15.36	3.78

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 9:00	9.4+	260	6.2	10.5	3/32
12:00	9.5	240			

ADDITIVES

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. 1 INTERVAL 7163 - 7220 FORMATION Fraquill
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE Test failed. MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY: 3675 ft mud.
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8:00	8:15	RIG SERV. HYDRIL ✓
8:15	1:00	CIR. WORK PIPE FOR D.S.TEST #1
1:00	4:00	TAIR OUT.

DRILLER R. Nealey NO. HELPERS 4

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4 P.M. TO 12 P.M.

START 7220 PROGRESS 0 END 7220

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
11	860384	SHGJ	8 3/4	7182.	7220	38	4 1/2

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15			

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	64 53 37	31.43	716.06	15 -	3.78

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

NO.	FROM	TO	RECOVERED	FORMATION

2 3/4 DEG. AT 7142 FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	4:30	FINISH OUT TO COLLARS. 1/2
4:30	4:45	RIG C.K. 1/4
4:45	6:00	WAIT ON ORDERS 1 1/4
6:09	6:30	FINISH OUT W/ COLLARS. 1/2
6:30	12:00	WAIT ON TESTER 5 1/2
		8

DRILLER L. Shannon NO. HELPERS 4

52 - 88AX4 REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 14 - 70

WELL NAME H.R.O.G. PETITOT - C-60
CONTRACTOR NABORS DRLG LTD — TYPE RIG NAT. 50-A
RIG NO. 6 — TOOL PUSHER L. PRICE

LDG. FLG. TO KB 1500
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SKS		9:15 P.M.	
					2% CAL		2-18-70	T. Traver

12 P.M. TO 8 A.M.

DEPTH: START 7075 PROGRESS 49 END 7124

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7J	8 3/4	6975	7124	149.	23.

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 18	1400.	60	35 - 32

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6358 89	3154	716.06	13.00	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	9.6	200	7.8	9.0	2/32
	9.5	195 145	7.8	9.0	3/32

ADDITIVES CAUSTIC - 2 SKS
GEL - 15 SKS.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 5/8 DEG. AT 7015 FT. — 2 5/8 DEG. AT 7056 FT. — DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12 00	1 30	DRLG.	1 1/2
1 30	2 15	SAND-LINE SURVEY	3/4
2 15	2 30	RIG. C.K	1/4
2 30	6 30	DRLG.	4
6 30	7 00	SAND LINE SURVEY.	1/2
7 00	8 00	DRLG	1
			8.

DRILLER L. Shannon NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 7124 PROGRESS 55 END 7179

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7J	8 3/4	6975	7179	204	

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1400	60	32 - 35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2			716.06		3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 800	9.6	205	6.8	10.5	2/32
WATER	9.5	195	6.8	9.5	2/32

ADDITIVES GEL - 19 SX
WATER - 3/4" STREAM

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 3/4 DEG. AT 7110 FT. — DEG. AT FT. — DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO		DESCRIPTION OF WORK
8 00	11 45	3 3/4	DRILL
11 45	12 00	1/4	RIG SERVICE 4 1/2" RAMS
12 00	12 45	3/4	SURVEY
12 45	4 00	3 1/4	DRILL
		8	

DRILLER A. Dan NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 7179 PROGRESS 3 END 7182

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7J	8 3/4	6975	7182	207	30 1/4
11	860384	SHGJ	8 3/4				

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1400	60	35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6421.83		716.06	41	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL					

ADDITIVES 8 SX GEL

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 3/4 DEG. AT 7142 FT. — DEG. AT FT. — DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4.00	4.15	DRILL
4.15	5.15	CIR. SAMPLE FOR GEO.
5.15	5.45	SURVEY
5.45		SAND LINE PARTED ON SPLICE
		SURVEY @ LINE IN PIPE
5.45	8.30	TRIP OUT
8.30	9.15	RECOVER SAND LINE & SURVEY
9.15	10.45	TRIP OUT
10.45	11.00	CHANGE BIT. CLOSE BLIND RAMS
11.00	12.00	TRIP IN.

DRILLER R. Hegney NO. HELPERS 4

52 - BBAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 13 - 70

WELL NAME H.B.O.G. PETITOT - C-60
CONTRACTOR NABORS DRLG LTD. TYPE RIG NAT. 59-A.
RIG NO. 6 TOOL PUSHER L. PRICE

LDG. FLG. TO KB 1500
K. B. ELEV. 1956
GRD. ELEV. 1939.

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SKS.		9:15 P.M.	
					2% CAL		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 6975 PROGRESS 9 END 6984

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7	8 3/4	6975	6984	9	2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1450	46-58.	25-m. 30.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6	6998 6309.	7/6.06	31.00.	378.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	AIR - CUT.				

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 3/4 DEG. AT 6970 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12:00	1:15	FINISH OUT.	1 1/4
1:15	1:30	CHANGED B.I.T.S & BLIND RAMS	1/4
1:30	1:45	RIG. C.K.	1/4
1:45	4:30	RUN IN + BRK CIRC @ 4750.	2 3/4
4:30		START CLEANING 155' OFF	
	6:00	BTM. - 30' FILL	1 1/2
6:00	8:00	DRILL	2
			8

DRILLER L. Shannon. NO. HELPERS 4

8 A.M. TO 4 P.M.

START 6894 PROGRESS 43 END 7027

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7J	8 3/4	6984	7027	52	9 1/4

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 14	1400	58	30-35m.

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6295.92		7/6.06	11.24	3.78

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 80°	9.6	195	7.6	9.0	2/32
120°	9.6	195	7.2	9.5	2/32

ADDITIVES GEL 14 SX
CAUSTIC 50#

NO.	FROM	TO	RECOVERED	FORMATION

3° DEG. AT 6985' FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8:00	10:00	DRILL	2
10:00	10:15	RIG SERVICE CLOSE 4 1/2" RAMS	1/4
10:15	3:00	DRILL.	4 3/4
3:00	3:30	SURVEY	1/2
3:30	4:00	DRILL	1/4

DRILLER [signature] NO. HELPERS 4

4 P.M. TO 12 P.M.

START 7027 PROGRESS 48 END 7075

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
10	19741	X7-J	8 3/4	6984	7075	100	16 1/2

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1550	60	30-35

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6327.50		7/6-06	28	3.78

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 40°	9.6	200	7.5	10.0	3/32
110°	9.5+	200	7.5	10.0	3/32

ADDITIVES WATER
10 SX GEL

NO.	FROM	TO	RECOVERED	FORMATION

2 7/8 DEG. AT 7015 FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INIT'AL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	4:15	RIG SERV. HYDRIL & SWIVEL
4:15	8:30	DRILL 8 3/4" HOLE
8:30	9:00	SURVEY
9:00	12:00	DRILL

DRILLER R. Hegney NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME H.B.O.G. PETITOT - C-60 | LDG. FLG. TO KB 1500 | DATE MAR-12-1970

CONTRACTOR NABORS DRLG. LTD | TYPE RIG DAT - 50-A | K. B. ELEV. 1956

RIG NO. 6 | TOOL PUSHER L. PRICE | GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SK. 2% CAL		9:15 P.m. 2-18-70	R. HARAWA

12 P.M. TO 8 A.M.

DEPTH: START 6894 PROGRESS 46 END 6940

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
9	751252	SHG	8 3/4	6678	6940	256	31

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000	60	28 M.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6169.98	3154	716.06	18 —	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	9.6	105	8.2	9.5	2/32
	9.5	135	8.2	9.5	2/32

ADDITIVES WATER
GEL 16 SKS
CAUSTIC 2 SKS.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2° DEG. AT 6835 FT. | 1 7/8° DEG. AT 6869 FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12 00	1 00	DRLG.	1
1 00	1 45	SURVEY @ 6869 = 1 7/8°	3/4
1 45	2 00	R.G. C.K.	1/4
2 00	8 00	DRLG.	6
			8

DRILLER L. Shannon NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 6940 PROGRESS 35 END 6975

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
9	751252	8 3/4	SHGJ	6678	6975	297	37 1/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2	975	60	35 M.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6233.07		716.06	22.09	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 8:AM.	9.6	90	7.6	10.5	2/32
1200	~~10~~ 9.6+	105	7.6	9.5	2/32

ADDITIVES GEL 32 sacks

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 2 5/8° DEG. AT 6932 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8 00	11 45	DRILL.	3 3/4
11 45	12 00	RIG SERVICE CLOSE 4 1/2" RAMS	1/4
12 00	12 30	SURVEY	1/2
12 30	3 00	DRILL	2 1/2
3 00	3 15	DROP SURVEY	1/4
3 15	4 00	TRIP OUT TIGHT.	3/4
			7

DRILLER H.A. Dyjur NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 6975 PROGRESS 0 END 6975

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
9	751252	SHGJ	8 3/4	6678	6975	297	37 1/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	975	60	35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	6233.07		716.06	22.09	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 5:00	9.5	130			
9:00	~~9.5~~	235			

ADDITIVES 15 SX GEL

CORING

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4 00	4 15	RIG SERV. B.O.P. ✓
4 15	4 30	CIR. CONDITION HOLE
4 30	4 45	PULL 1 STD. TIGHT HOLE
4 45	5 45	CIR. COND. HOLE
5 45	7 30	WORK TIGHT HOLE BRK. CIR.
7 30	9 30	CIR. COND. MUD TO HIGHER VIS.
9 30	12 00	TRIP OUT — SLOW.

DRILLER R. Hagen NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR - 11 - 1970.

WELL NAME	H.B.O.G. PETITOT - 6-60	LDG. FLG. TO KB	1500
CONTRACTOR	NABORS. DRLG. LTD.	K. B. ELEV.	1956
TYPE RIG	NAT - 50-A.	GRD. ELEV.	1939.
RIG NO.	6	TOOL PUSHER	E. PRICE

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795'	10 3/4	40.5	K.55	700 SKS		9:15 P.M.	
					2% CaCl		2-18-70	R. LARAWA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 6689 PROGRESS 64 END 6753	START 6753 PROGRESS 84 END 6837	START 6837 PROGRESS 57 END 6894

BIT RECORD

	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12 P.M. TO 8 A.M.	9	751252	S-H-G	8 3/4	6678.	6753	75	9 1/2
8 A.M. TO 4 P.M.	9	751252	SHGJ	8 3/4	6678	6837	159	16 3/4
4 P.M. TO 12 P.M.	9	751252	SHGJ	8 3/4	6678	6894	216	24

DRILLING DATA

	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
12 P.M. TO 8 A.M.	5 1/2 X 15	1000	60	38-45 m.
8 A.M. TO 4 P.M.	5 1/2 X 15	1000	60	45
4 P.M. TO 12 P.M.	5 1/2 X 15	1000	60	45-32-28

DRILLING STRING

	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
12 P.M. TO 8 A.M.	4 1/2	59 BI.58	31 50	716.06	31.00	3.78.
8 A.M. TO 4 P.M.	4 1/2	60	7.07	716.06	39.09	3.78
4 P.M. TO 12 P.M.	4 1/2	61	40.17	716 09	34.	3.78

MUD RECORD

	TYPE OF MUD		WEIGHT	VIS	WL	PH	FC
12 P.M. TO 8 A.M.		12:00	9.5	160	7.2	9.5	2/32
		4:00	9.5	110	7.2	9.5	2/32
8 A.M. TO 4 P.M.	GEL	12:00	9.5	160	7.2	10.5	2/32
		4:00	9.5	100	7.2	10.0	2/32
4 P.M. TO 12 P.M.	GEL	5:00	9.5	105	7.5	10.0	2/32
		11:00	9.5	115	7.5	10.0	2/32

ADDITIVES

8 A.M. TO 4 P.M.: GEL 14 SX; CAUSTIC 1 SX

4 P.M. TO 12 P.M.: GEL 10 SX; WATER

CORING

	NO.	FROM	TO	RECOVERED	FORMATION
12 P.M. TO 8 A.M.					
8 A.M. TO 4 P.M.					
4 P.M. TO 12 P.M.					

SURVEY

12 P.M. TO 8 A.M.	1/2° DEG. AT 6668 FT.	DEG. AT FT.	DEG. AT FT.
8 A.M. TO 4 P.M.	1/8° DEG. AT 6745' FT.	DEG. AT FT.	DEG. AT FT.
4 P.M. TO 12 P.M.	DEG. AT FT.	DEG. AT FT.	DEG. AT FT.

DRILL STEM TESTS

12 P.M. TO 8 A.M.	NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:
8 A.M. TO 4 P.M.	NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:
4 P.M. TO 12 P.M.	NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY

PRESSURES: IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK	
12.00	12.15	Rig. C.I.K.	1/4
12.15	8.00	DRLG.	7 3/4
			8.

TALLY OUT ⇒ 6691.25
PIPE TALLY ⇒ 6689.45
1.80 DIFF.

DRILLER L. Shannon. NO. HELPERS 4

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK	
8.00	9.00	DRILL	1
9.00	9.15	RIG SERVICE CLOSE 4 1/2" RAMS	1/4
9.15	9.45	SURVEY	1/2
9.45	4.00	DRILL	6 1/4
			8

DRILLER [illegible] NO. HELPERS 4

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK
4.00	4.15	RIG SERV. HYDRIL SWIVEL
4.15	7.30	DRILL
7.30	8.00	SURVEY @ 6835 2°
8.00	12.00	DRILL

DRILLER R. Negren NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR - 10 - 1970

WELL NAME H.B.O.G. - PETITOT - C-60
CONTRACTOR NABORS DRLG LTD
RIG NO. 6
TYPE RIG NAT - 50 - A.
TOOL PUSHER L. PRICE
LDG. FLG. TO KB 1500
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SK.		9:15 P.M.	
					2% CaCl		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 6578 PROGRESS 79. END 6657

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16J	8 3/4	5970	6657	687.	57 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1050	60	35-m-38-40

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5876.59	3142	716.06	1900.	15.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.4+	160	7.2	9.0	3/32
~~Rapidril~~	9.4	125	7.6	9.5	3/32

ADDITIVES GEL ⇒ 16 SK. D. RET ⇒ 9.4+ SHAKER ⇒ 9.
~~Rapidril~~ ⇒ D. DIS ⇒ 9.8
CAUSTIC ⇒ 2 SK. D. RUN - 8 HRS. - 360 - TOTAL

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 5/8° DEG. AT 6460 FT. | 3/16° DEG. AT 6553 FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12.00	12.30	DRLG.	1/2
12.30	1.00	SAND-LINE-SURVEY @ 6553 @ 3/16°	1/2
1.00	1.15	RIG C.K.	1/4
1.15	8.00	DRLG.	6 3/4
			8
		ON DAYWORK AT 2.00 AM	
		DRLG. IN LIME STONE	
		CAME IN @ [illegible]. 6595'	

DRILLER L. Shannon NO. HELPERS 4

8 A.M. TO 4 P.M.

START PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16J	8 3/4	5970	6678	708	60

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000	60	Hom

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5939.10		716.06	9.44	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.4	107	7.6	9.0	3/32

ADDITIVES GEL 35 SX

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT 6675 FT. | 1/2° DEG. AT 6668 FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8.00	10.30	DRILL
10.30	11.00	SURVEY
11.00	11.15	CIRCULATE
11.15	11.45	TRIP OUT TIGHT
11.45	1.30	CIRC. MIX MUD
1.30	4.00	TRIP OUT

DRILLER [signature] NO. HELPERS 4

4 P.M. TO 12 P.M.

START 6678 PROGRESS 11 END 6689

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16J	8 3/4	5970	6678	708	60
9	751252	SHG-J	8 3/4	6678	6689	11	1 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1050	60	35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5939.10		716.06	20.41	3.78

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL					
RAPIDRIL		150			

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4.00	5.30	TRIP OUT
5.30	5.45	RIG SERV BLIND RAMS
5.45		LAY DOWN REAMER CHANGE BIT
	6.15	SET UP BRAKES
6.15	9.30	RUN IN W/ BIT.
9.30	10.15	CLEAN 20' TO BOTTOM.
10.15	12.00	DRILL

DRILLER [signature] NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 9 - 70

WELL NAME	H.B.O.G. PET. ET - C-60	LDG. FLG. TO KB	1500
CONTRACTOR	LABORS DRLG LTD.	K. B. ELEV.	1956
RIG NO.	6.	GRD. ELEV.	1939
TYPE RIG	DAT. 50-A.	TOOL PUSHER	L. PRICE

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SK.		9:15 P.m	
					2% CAL.		2-18-70	R. LABRANCHE

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 6325 PROGRESS 90 END 6415	START 6415 PROGRESS 80 END 6495	START 6495 PROGRESS 83 END 6578

BIT RECORD

12 P.M. TO 8 A.M.								
NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16-J	8 3/4	5970	6415	445	35 1/4

8 A.M. TO 4 P.M.							
NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16-J	8 3/4	5970	6495	525	42 1/2

4 P.M. TO 12 P.M.							
NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16-J	8 3/4	5970	6578	608	50 1/4

DRILLING DATA

12 P.M. TO 8 A.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 18?	975	60	38 m. 32-

8 A.M. TO 4 P.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1050	60	32.

4 P.M. TO 12 P.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1050	60	35

DRILLING STRING

12 P.M. TO 8 A.M.					
SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	55 93.92	63.13	716.06	28.00	13.40

8 A.M. TO 4 P.M.					
SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	57 51.11		716.06	14.43	13.40

4 P.M. TO 12 P.M.					
SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	58 14.17		716.06	35	13.40

MUD RECORD

12 P.M. TO 8 A.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.4	120	7.4	10.5	2/32
RAPIDRIL	9.4	120	7.4	10.5	2/32

ADDITIVES GEL ⇒ 20 SK. D. RET. ⇒ 9.4 SHAKER ⇒ 9.5+
RAPIDRIL ⇒ 4 SK. D. DIS ⇒ 9.9
D. RUN - 8 HRS.

8 A.M. TO 4 P.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.4+	125	8.0	8.5	2/32
	9.5	115			

ADDITIVES GEL - 27 SX D. RET. - 9.4+
RAPIDRIL 5 SX SHAKER 9.6
CAUSTIC 5 D. DIS - 9.9
DESILTER RUN 34 HRS

4 P.M. TO 12 P.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.4	120	8.0	8.5	2/32
RAPIDRIL	9.4	180	8.1	9.5	2/32

ADDITIVES GEL 20 SX
RAPIDRIL 4
CAUSTIC 2

CORING

12 P.M. TO 8 A.M.				
NO.	FROM	TO	RECOVERED	FORMATION

8 A.M. TO 4 P.M.				
NO.	FROM	TO	RECOVERED	FORMATION

4 P.M. TO 12 P.M.				
NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

12 P.M. TO 8 A.M.							
1/2 °	DEG. AT 6265	FT.	15/16 °	DEG. AT 6364	FT.	DEG. AT	FT.

8 A.M. TO 4 P.M.							
5/8 °	DEG. AT 6460	FT.	DEG. AT		FT.	DEG. AT	FT.

4 P.M. TO 12 P.M.					
DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL STEM TESTS

12 P.M. TO 8 A.M.						
NO.	INTERVAL			FORMATION		
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)			
GAS TO SURFACE	MIN. @		MCF/D MAX.			
OIL TO SURFACE	MIN. @		BBL/D MAX.			
RECOVERY:						
PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

8 A.M. TO 4 P.M.						
NO.	INTERVAL			FORMATION		
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)			
GAS TO SURFACE	MIN. @		MCF/D MAX.			
OIL TO SURFACE	MIN. @		BBL/D MAX.			
RECOVERY:						
PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

4 P.M. TO 12 P.M.						
NO.	INTERVAL			FORMATION		
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)		FINAL SHUT-IN (MINS.)			
GAS TO SURFACE	MIN. @		MCF/D MAX.			
OIL TO SURFACE	MIN. @		BBL/D MAX.			
RECOVERY:						
PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12:00	12:30	DRLG.	1/2
12:30	12:45	RIG. C.K. + REMOTE CONTROL (GOOD)	1/4
12:45	5:30	DRLG.	4 3/4
5:30	6:00	SAND-LINE SURVEY @ 6364 ⇒ 15/16°	1/2
6:00	8:00	DRLG. (W/ 32,000)	2
			8.

DRILLER L. Shannon NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK	
8:00	9:00	DRILL	1
9:00		RIG SERVICE SWIVEL CROWN & BLOCK	
	9:15	CLOSE 4 1/2" RAMS	1/4
9:15	3:00	DRILL	5 3/4
3:00	3:30	SURVEY	1/2
3:30	4:00	DRILL	1/2

DRILLER [signature] NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
4:00	6:30	DRILL
6.30	6.45	RIG. SERV. KELLY COCK + SWIVEL
6.45	12.00	DRILL

DRILLER R. Negrey NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 8 - 1970

WELL NAME H.B.O.G. PETITOT - C-60
CONTRACTOR NABORS DRLG. LTD. TYPE RIG NAT - 50 - A
RIG NO. 6 TOOL PUSHER L. PRICE

LDG. FLG. TO KB 15.00
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SK		9:15 P.m.	
					2% CaCl		2-18-70.	R. WARAWA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 6028 PROGRESS 93 END 6121	START 6121 PROGRESS 99 END 6220	START 6220 PROGRESS 105 END 6325

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16J	8 3/4	5970.	6121	151	13 1/2

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16J	8 3/4	5970	6220	250	20 3/4

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16-J	8 3/4	5970	6325	355	28

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	975	60-98-60	38 m.

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000	60	35-38

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	975	60	38

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5314.69	6295	716.06	2800	13.40

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5469.90		716.06	18.64	13.40

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5469.90		716.06	34.	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.6	125	7.0	10.5	2/32
RAPIDRIL	9.3+	110	"	"	"

ADDITIVES GEL ⇒ 55 SKS D. RETURN ⇒ 9.3+
RAPIDRIL ⇒ 8 SKS. D. DIS ⇒ 10.0
SHAKER ⇒ 9.5 D. RUN - 8 HRS - 312 - TOTAL

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 8.00	9.4	112	7.8	9	2/32
12.00	9.3	95			

ADDITIVES BEL 20 SX RAPIDRIL - 5 SX
D. DIS - 9.8+ D. RETURN - 9.3+.
SHAKER - 9.4+

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 4.00	9.4	105	8.00	9.0	2/32
RAPIDRIL 11.00	9.4	92	8.2	9.0	4/32

ADDITIVES GEL 21
RAPIDRIL 4
CAUSTIC 2

CORING

NO.	FROM	TO	RECOVERED	FORMATION

NO.	FROM	TO	RECOVERED	FORMATION

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

1/4° DEG. AT 5700 FT. | DEG. AT FT. | DEG. AT FT.

1/8° DEG. AT 6175 FT. | DEG. AT FT. | DEG. AT FT.

1/2 DEG. AT 6265 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK	
12:00	2:00	DRLG	2
2:00	2:15	R.G. C.K.	1/4
2:15	8:00	DRLG.	5 3/4
			8 HRS
		MIXING GEL + DUMPING TANKS TO LOWER W.T.	

FROM	TO		
8:00	10:00	DRILL	2
10:00	10:15	RIG SERVICE CLOSE 4 1/2" RAMS	1/4
10:15	2:45	DRILL	4 1/2
2:45	3:15	SAND LINE SURVEY	1/2
3:15	4:00	DRILL	3/4
			8

FROM	TO	DESCRIPTION OF WORK
4:00	5:30	DRILL
5:30	5:45	RIG SERV. HYDRIL SWIVEL ✓
5:45	10:00	DRILL
10:00	10:30	SURVEY
10:30	12:00	DRILL

DRILLER L. Shannon NO. HELPERS 4
DRILLER [illegible] NO. HELPERS 4
DRILLER R. Hagley NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR-7-70

WELL NAME	H.B.O.G. PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD	TYPE RIG NAT. 50-A	K. B. ELEV. 1956
RIG NO.	6	TOOL PUSHER E. PRICE	GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10¾	40.5	K.55	700 SX		9:15 P.M.	
					2% CaCl		2-18-70	R. WAHAHA

12 P.M. TO 8 A.M.

DEPTH: START – PROGRESS – END 5970

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X16S	8¾	5331	5970	639	56¾
8	20714	X16S	8¾	5970			

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 15			

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	5200.56		716.06	20.98	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL					
RAPIDRIL					

ADDITIVES NIL

CORING: NO. / FROM / TO / RECOVERED / FORMATION

SURVEY: DEG. AT FT. / DEG. AT FT. / DEG. AT FT.

DRILL STEM TESTS: NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12⁰⁰	3⁰⁰	TRIP OUT FOR BIT.
3⁰⁰	3¹⁵	RIG SERV CHANGE BIT BLIND RAMS
3¹⁵	4⁰⁰	TRIP IN w/ D. COLLARS
4⁰⁰	5³⁰	SLIP + CUT D. LINE
5³⁰	7⁰⁰	PICK UP KELLY CHANGE SWIVEL PACKING.
7⁰⁰	8⁰⁰	TRIP IN w/BIT.

DRILLER R. Wegner NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 5970 PROGRESS 0 END 5970

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16S	8¾	5970	0	0	0

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 15			

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	5200.56		716.06	20	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	8:00 9.6				
	12:00 9.6		105		

ADDITIVES

CORING: NO. / FROM / TO / RECOVERED / FORMATION

SURVEY: 1/4° DEG. AT 5700 FT. / DEG. AT FT. / DEG. AT FT.

DRILL STEM TESTS: NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8⁰⁰	8¹⁵	RIG, C.K.	1/4
8¹⁵	8³⁰	RUN IN TO 4905	1/4
8³⁰	4⁰⁰	REAMING FROM 4905-5218	7½
			8.

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 5970 PROGRESS 58 END 6028

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
8	20714	X16S	8¾	5970	6028	58	5¾

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 15	975	60	38

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	5283.29		716.06	15.25	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.5	110	7.2	8.5+	2/32
WATER					

ADDITIVES GEL 23 SX 1" STREAM
RAPIDRIL 6 SX WATER.
CAUSTIC 2 SX

CORING: NO. / FROM / TO / RECOVERED / FORMATION

SURVEY: DEG. AT FT. / DEG. AT FT. / DEG. AT FT.

DRILL STEM TESTS: NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO		DESCRIPTION OF WORK
4⁰⁰	5⁰⁰	1	REAM 60' - BRIDGES
5⁰⁰	5¹⁵	1/4	RUN IN 7 STDS
5¹⁵	5⁴⁵	1/2	CLEAN TO BOTTOM 60' FILL
5⁴⁵	11⁰⁰	5¼	DRILL
11⁰⁰			RUN SURVEY - MIS RUN - INSUFFICIENT SAND LINE.
	11³⁰	1/2	
11³⁰	12⁰⁰	1/2	DRILL
		1	
		8	

DRILLER [illegible] NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 6 1970

WELL NAME	H.B.O.G. PETITOT C-60		
CONTRACTOR	NABORS DRLG. LTD.	TYPE RIG	NAT. 50-A.
RIG NO.	6	TOOL PUSHER	E. PRICE

LDG. FLG. TO KB	15.00
K. B. ELEV.	1956
GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K. 55	700 SX		9:15 PM	
					2% C/C		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 5756 PROGRESS 79 END 5835

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X1G-J	8 3/4	5331	5835	503	44 1/4

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2	1050	60	38

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5063.69		716.06	41.00	13.40

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.6	125	7.6	9.5	2/32
RAPIDRIL	9.5	120			

ADDITIVES 1" WATER
16 GEL
3 RAPIDRIL

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12.00	1.45	DRILL
1.45	2.00	RIG SERV. 4 1/2 PIPE RAMS SWIVEL
2:00	8.00	DRILL 8 3/4" HOLE.

DRILLER P. Hegley NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 5835 PROGRESS 83 END 5918

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X1G-J	8 3/4	5331	5918	586	52

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1050	60	38 M.

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5126.64	31.10	716.06	29 —	13.40

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL (7:00)	9.6	120	7.0	9.5	2/32
RAPIDRIL (12:00)	9.6	92	7.0	9.5	2/32

ADDITIVES GEL → 17 SKS.
RAPIDRIL → 3 SKS.
CAUSTIC → 1/2

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: 1 1/4° DEG. AT 5280 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8.00		Rig, C.K. + SERV. SWIVEL +
	8.15	C.K. MOTOR SHUT OFFS (OK) 1/4
8.15	4.00	DRILL 7 3/4
		8

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 5918 PROGRESS 52 END 5970

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X1G-J	8 3/4	5331	5970	639	56 3/4

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1100	60	38 M.

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5220.56		716.06	20.98	13.40

MUD RECORD: TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.6	120	7.1	9.0	2/32
	9.6	120			

ADDITIVES GEL 10 SX
RAPIDRIL 2 SX
CAUSTIC 1 SX

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4.00	5.00	DRILL
5.00	5.15	RIG SERVICE & SWIVEL CLOSE HYDRIL
5.15	9.00	DRILL
9.00	9.30	PUMP SURVEY DOWN @ 5700'
9.30	10.30	TRIP OUT 10 STDS TIGHT
10.30	11.45	UNDER REAM 2 SINGLES OUT
11.45	12.00	TRIP OUT

DRILLER H. A. Dyjes NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MARCH-5-1970

WELL NAME	H.B.O.G. PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG. LTD	TYPE RIG NAT. 50-A	K. B. ELEV. 1956
RIG NO.	6	TOOL PUSHER E. PRICE	GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700SX 2% CaCl2		9:15 P.M. 2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 5484 PROGRESS 95 END 5579

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X16S	8 3/4	5331	5579	248	21

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000	60 - 100	35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2 XH	4817.14		716.06	33	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 12:00	9.3	110	9.6	8.0	2/32
RAPIDRIL	9.4	105	9.8	8.0	2/32

ADDITIVES GEL 16
RAPIDRIL 3

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	1:00	DRILL 8 3/4" HOLE
1:00	1:15	RIG SERV. ✓ HYDRIL + SWIVEL
1:15	8:00	DRILL 8 3/4" HOLE

DRILLER R. Hagey [signature] NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 5579 PROGRESS 86 END 5665

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X16S	8 3/4	5331	5665	334	28 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000	60-100	35-38m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4848.64	61.27	716.06	25	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	2:00 9.6	77	7.4	9.5	2/32
RAPIDRIL	3:00 9.5	75	7.4	9.5	2/32

ADDITIVES GEL ⇒ 20 SK.
RAPIDRIL ⇒ 4 SK.

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: 9/16 DEG. AT 5280 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8:00	8:15	RIG. C.K. & SERV. SWIVEL 1/4
8:15	4:00	DRILL. 7 3/4
		8.

DRILLER L. Shannon [signature] NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 5665 PROGRESS 91 END 5756

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
7	22625	X16S	8 3/4	5331	5756	424	36 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1025	60	35-38

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	5001.71		716.06		13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL WATER 6PM	9.5	100	7.1	9.0	2/32 THE
10PM	9.5	105			

ADDITIVES GEL 25 SX
RAPIDRIL 5 SX
CAUSTIC 2 SX

CORING: NO. FROM TO RECOVERED FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	5:15	1 1/4 DRILL
5:15	5:30	1/4 RIG SERVICE & SWIVEL CLOSE HYDRIL BY REMOTE API.
5:30	12:00	6 1/2 DRILL.
		8

DRILLER [signature] NO. HELPERS 4

52 - 8BAX4
REV. 3/59

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 4 1970

WELL NAME H B Hunt C-60
CONTRACTOR Nabors Drlg.
RIG NO. 6
TYPE RIG Mat 50 A
TOOL PUSHER L. Hunt

LDG. FLG. TO KB 15.00
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40-5	K-55	700 SK		9 15 PM	
					2% CaCl2		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH START 5331 PROGRESS 0 END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	22625	X1G	8 3/4	5331			

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000	-	-

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	45	73.31	716.06	28	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
Gel	9.3	170	7.6	9.5	2/32
Rapidril					

ADDITIVES 18 Gel 4 Rapid Drill

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
11 30	5 30	Clean.

DRILLER P. Negley NO. HELPERS 4

8 A.M. TO 4 P.M.

START 5331 PROGRESS 58 END 5389

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	22625	X1G	8 3/4	5331	5389	58	5 1/2

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000-1100	62-94-100	25-30

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	45	73.31	616.7	716.06	24.00	13.40

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL.	9.3	85	7.8	9.0	2/32
Rapidril	9.3	100	7.8	9.0	2/32

ADDITIVES CAUSTIC ⇒ 1 SK D. RETURNS ⇒ 9.3
GEL ⇒ 16 SKS D. DIS ⇒ 9.7
RAPIDRIL ⇒ 3 SKS D. RUN - 8 HRS - 224 - TOTAL

NO.	FROM	TO	RECOVERED	FORMATION

15/16 DEG. AT 5280 FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8 00	8 45	FINISH REAMING TO - BTM. 3/4
8 45	10 15	DRILL 1 1/2
10 15	10 30	R.G. C.K SERV. SWIVEL 1/4
10 30	11 30	DRILL 1
11 30		WORK ON WATER LINES ON
	1 00	ENDS OF BRAKE DRUM 1 1/2
1 00	4 00	DRILL 3
		8

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

START 5389 PROGRESS 95 END 5484

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	22625	X1G	8 3/4	5331	5484	153	12 1/4

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15	1000	60	35

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2 XH	47	26.49	716.06	28.05	13.40

TYPE OF MUD	WEIGHT 4 P.M.	VIS	WL	PH	FC
WATER GEL	9.4	120	9.4	8.0	3/32

ADDITIVES GEL 24 SX WATER 1" STREAM.
RAPIDRIL 5 SX
CAUSTIC 2 SX

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESS-URES IHP FHP IFP FFP ISIP FSIP

FROM	TO		DESCRIPTION OF WORK
4 00	5 45	1 3/4	DRILL
5 45	6 00	1/4	RIG SERVICE SWIVEL BLOCKS & CROWN CLOSE 4 1/2" RAMS
6 00	8 00	6	DRILL
		8	

DRILLER [illegible] NO. HELPERS 4

52 - 9BAX4
REV 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR 3 1970

WELL NAME	H.B.O.G. PETITOT C-63	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG. LTD. TYPE RIG NATIONAL 50-A	K. B. ELEV.	1956
RIG NO.	6 TOOL PUSHER E. PRICE	GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SX 2% Ca Cl		9:15 PM 2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 5193 PROGRESS 85 END 5278

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	XIG-5	8 3/4	4893	5278	385	29 3/4

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000	100	35 m.

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2			716-06		13.40

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 2.00	9.3	80	10.6	9.0	2/32
RAPIDRIL 7.00	9.3	75	10.4	9.0	2/32

ADDITIVES 8 GEL DES. RET. 9.2
2 RAPIDRIL DES. DIS. 9.9
DES. RUN 8 HRS TOTAL → 192 HRS

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
12:00	1:45	DRILL
1:45	2:00	RIG SERV. HYDRIL ✓
2:00	4:30	DRILL 8 3/4" HOLE
4:30	5:00	SURVEY MISS RUN VIS. TOO HIGH UNABLE TO GET TO BOTTOM.
5:00	8:00	DRILL 8 3/4" HOLE.

DRILLER [signature] NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 5278 PROGRESS 53 END 5331

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	XIGJ	8 3/4	4893	5331	438	35 1/4

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000	100-62	35-40 m.

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4573.31	—	716.06	2800	13.40

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 9:00	9.4	60	7.6	9.5	2/32
RAPIDRIL 12:00	9.3	70	9.2	9.5	2/32

ADDITIVES GEL → 25 SK. D. RETURN → 9.3
RAPIDRIL → 5 SK. D. DIS → 9.7
D. RUN - 8 - HRS — 200 HRS.

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 15/16 DEG. AT 5280 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
8:00	8:15	Drill 1/4
8:15	8:30	Serv. Swivel + Rig C.K. 1/4
8:30	9:00	Survey @ 5280 → 15/16 1/2
9:00	2:15	Drill 5 1/4
2:15		Trip for new Bit tight 3 stds + 2 singles out Back
	4:00	reaming single out 1 3/4
		8.

DRILLER [signature] NO. HELPERS 5

4 P.M. TO 12 P.M.

DEPTH: START 5331 PROGRESS 0 END 5331

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	X16	8 3/4	4893	5331	438	35 1/4
7	22625	X16	8 3/4	5331			

DRILLING DATA: LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000		

DRILLING STRING: SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4573.31		716-06	2800	1340

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	TRIP				
RAPIDRIL					

ADDITIVES

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	5:15	UNDER REAMING.
5:15	8:00	TRIP OUT
8:00	8:15	RIG SERVICE CLOSE BLIND RAMS
8:15	10:30	TRIP IN
10:30	12:00	BREAK CIRCULATION 625' OFF BOTTOM REAM 60'

DRILLER [signature] NO. HELPERS 4

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

52 - 88AX4
REV.3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 2 1970

WELL NAME	H.B.O.+G PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD. TYPE RIG NATIONAL 50-A	K. B. ELEV.	1956
RIG NO.	6 TOOL PUSHER E. PRICE	GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SX 2% CaCl		9:15 P.M. 2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 4893 PROGRESS 101 END 4994

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	X1G-J	8 3/4	4893	4994	101	7 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5-1/2 X 15	1000	62 - 100	25 - 35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4228.01		716.06	36.53	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 12:00	9.2	120	11.6	8.5	2/32
RAPIDRIL 7:00	9.1	85	11.0	8.5	2/32

ADDITIVES 13 GEL
1 CMC
1 RAP'DRIL

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	1:45	DRILL
1:45	2:00	RIG SERV. HYDRIL SWIVEL
2:00	8:00	DRILL

DRILLER P. Negley NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 4994 PROGRESS 107 END 5101

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	X1G-J	8 3/4	4893	5101	208	14 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	1000	100-62	35 m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4291.24	61.78	716.06	18.00	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL. 8:00	9.3	70	9.0	9.0	2/32
RAPIDRIL 12:00	9.3	59	9.0	9.0	2/32

ADDITIVES GEL → 10 SK.
RAPIDRIL → 2 SK.
CAUSTIC → 1 SK.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1° DEG. AT 4872 FT. 7/8° DEG. AT 5030 FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8:00	8:15	RIG, C.K. + SERV. SWIVEL	1/4
8:15	10:30	DRILL	2 1/4
10:30	11:15	SURVEY @ 5030 → 7/8°	3/4
11:15	4:00	DRILL	4 3/4
			8

DRILLER E. Shannon NO. HELPERS 5

4 P.M. TO 12 P.M.

DEPTH: START 5101 PROGRESS 92 END 5193

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
6	21867	X1G-J	8 3/4	4893	5193	300	22 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
4 1/2 x 15	1000	62	35 m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	4447.21		716.06	16.28	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 4Pm	9.3	70	10.4	9.0	2/32
RAPIDRIL 10Pm	9.3	70			

ADDITIVES GEL 16 SX
RAPIDRIL 3 SX
CAUSTIC 2 SX

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	5:45	DRILL
5:45	6:00	RIG SERVICE CLOSE 4 1/2" RAMS.
6:00	12:00	DRILL

DRILLER [signature] NO. HELPERS 4

52 - 88AX4
REV.3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE MAR. 1 /70

WELL NAME	H.B.O.G PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD. TYPE RIG NATIONAL 50-A	K. B. ELEV.	1956
RIG NO.	6 TOOL PUSHER E. PRICE	GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SX		9:15 P.M	
					2% CaCl2		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 4741 PROGRESS 73 END 4814

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X1G.5	8 3/4	4010	4814	804	70

DRILLING DATA	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
	5 1/2 X 15	950	62	40

DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	4 1/2	4070.42		716.06	14.53	13.40

MUD RECORD TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 12:00	9.1	61	11.6	8.5	2/32
RAPIDRIL 6:00	9.2	65	11.0	8.5	2/32

ADDITIVES 10 GEL
1 RAPIDRIL
1 SODA ASH

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	12:30	DRILL
12:30	12:45	RIG SERV. HYDRIL + SWIVEL
12:45	8:00	DRILL

DRILLER P. Negrey NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH: START 4814 PROGRESS 58 END 4872

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X1G5	8 3/4	4010	4872	862	76 1/2

DRILLING DATA	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
	5 1/2 X 15	1000	62	40 m.

DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	4 1/2	4101.96	\	716.06	40.00	13.40

MUD RECORD TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 9:00	9.3	54	9.4	9.5	2/32
RAPIDRIL 12:00	9.3	70	9.4	9.5	2/32

ADDITIVES GEL → 15 SK.
RAPIDRIL → 3 SK.
CAUSTIC → 2 SK.

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1° DEG. AT 4714 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8:00	11:00	DRILL	3
11:00	11:15	SERV. SWIVEL + RIG CK.	1/4
11:15		SURVEY @ 4840 → COULD NOT GET	
		SURVEY DOWN IN 25 MIN. MUD	
	11:45	TO HEAVY	1/2
11:45	3:15	DRILL	3 1/2
3:15	4:00	SURVEY @ 4872 →	3/4

DRILLER C. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH: START 4872 PROGRESS 21 END 4893

BIT RECORD NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X1G	8 3/4	4010	4893	883	79 1/4

DRILLING DATA	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
	5 1/2 X 15	1025	62	40 m.

DRILLING STRING	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	4 1/2	4133.56		716.06	29.97	13.40

MUD RECORD TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.2	60	10.8	8.5	2/32
RAPIDRIL	9.3	80			

ADDITIVES GEL 16 SK
RAPIDRIL 3 SK

CORING NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1° DEG. AT 4873 FT. DEG. AT FT. DEG. AT FT.

DRILL STEM TESTS: NO. INTERVAL FORMATION; VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	4:15	RIG SERVICE CLOSE HYDRIL
4:15	7:00	DRILL
7:00	9:30	TRIP OUT FOR BIT
9:30	11:45	TRIP IN W/ BIT
11:45		BREAK CIRC CLEAN 10'
	12:00	FILL

DRILLER [illegible signature] NO. HELPERS 4.

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited — DAILY DRILLERS REPORT

DATE FEB. 28 - 1970

WELL NAME	H.B. PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG. LTD	K. B. ELEV.	~~1956~~ 1956
RIG NO.	6	GRD. ELEV.	1937
TYPE RIG	NATIONAL 50 A		
TOOL PUSHER	E. PRICE		

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K. 55	700 SX		9.15 P.M	
					2% CaCl2		2-18-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH: START 4482 PROGRESS 88 END 4570

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X16J	8 3/4	4010	4570	560	47 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	900	62	40 M

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	3819.77		716.06	21.18	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	8.8	65	11.8	9.0	2/32
RAPIDRIL		58	11.6	9.0	4/32

ADDITIVES GEL 39
RAPIDRIL 3

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 5/8 DEG. AT 4525 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12.00	1.00	DRILL
1.00	1.15	RIG SERV. HYDRIL KELLY COCK
1.15	3.45	DRILL
3.45	4.15	SURVEY
4.15	8.00	DRILL

DRILLER P. Rogers NO. HELPERS 4

8 A.M. TO 4 P.M.

START 4570 PROGRESS 85 END 4655

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X16J	8 3/4	4010	4655	645	55

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 15	950	62	40 m - 35 30

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	3914.41	\	716.06	11.00	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL.	~~9.0~~ 9.0	60	12.0	8.0	2/32
RAPIDRIL	~~12.00~~ 9.0	60	12.0	9.0	2/32

ADDITIVES GEL # 22 SK.
RAPIDRIL # 2 SK.
SODA ASH # 1 SK.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1° DEG. AT 4621 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK	
8.00	9.30	DRILL	1 1/2
9.30	9.45	RIG C.K. + SERVICE, SWIVEL	1/4
9.45	12.15	DRILL	2 1/2
12.15	12.45	SURVEY @ 4621 = 1°	1/2
12.45	4.00	DRILL	3 1/4
			8.

DRILLER E. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

START 4655 PROGRESS 86 END 4741

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
5	18753	X16J	8 3/4	4010	4741	731	62 1/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
~~5 1/2 X 16~~ 5 1/2 X 15	~~1200~~ 950	~~53~~ 62	~~40~~ 34

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	3975.83		716.06	36.71	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.0	55	11.5	8.5	2/32
RAPIDRIL	9.1	60			

ADDITIVES GEL — 36 SX
RAPIDRIL — 2 SX

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: 1° DEG. AT 4714 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO		DESCRIPTION OF WORK
4.00	6.00	2	DRILL
6.00	6.15	1/4	RIG SERVICE & CROWN CLOSE 4 1/2" RAMS
6.15	9.00	2 3/4	DRILL
9.00	9.30	1/2	SURVEY
9.30	12.00	2 1/2	DRILL

DRILLER [illegible] NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB. 27 1970

WELL NAME	H.B. PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DALC. LTD.	K. B. ELEV.	~~1950~~ 1956
RIG NO.	6	GRD. ELEV.	1939
TYPE RIG	NATIONAL 50-A.	TOOL PUSHER	E. PRICE

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K.55	700 SK		9.15 P.M.	
					2% CaCl2		2-18-70	R. WAKAWA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 4250 PROGRESS 80 END 4330	START 4330 PROGRESS 60 END 4390	START 4390 PROGRESS 92 END 4482

BIT RECORD

	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12 P.M. TO 8 A.M.	5	18753	X16J	8 3/4	4010	4330	320	26
8 A.M. TO 4 P.M.	5	18753	X16J	8 3/4	4010	4390	380	33 1/4
4 P.M. TO 12 P.M.	5	18753	X16J	8 3/4	4010	4482	472	40 1/2

DRILLING DATA

	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
12 P.M. TO 8 A.M.	5 1/2 X 15	900	62	28 M.
8 A.M. TO 4 P.M.	5 1/2 X 15	900	62 - 104 - 235 m	38
4 P.M. TO 12 P.M.	5 1/2 X 15	900	62	35 - 40

DRILLING STRING

	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
12 P.M. TO 8 A.M.	4 1/2	35	70.10	716.06	30.45	13.40
8 A.M. TO 4 P.M.	4 1/2	36	33.41	716.06	2700	13.40
4 P.M. TO 12 P.M.	4 1/2	37	29.99	716.06	24.55	13.40

MUD RECORD

	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
12 P.M. TO 8 A.M.	GEL	8.9	65	12.0	8.5	3/32
	RAPIDRIL	4 BAGS				
8 A.M. TO 4 P.M.	GEL	7.9	50	12.0	9.0	3/32
	RAPIDRIL	7.9	54	12.0	9.0	3/32
4 P.M. TO 12 P.M.	GEL-RAPIDRIL	9.8	55	11.6	7 90	2/32

12 P.M. TO 8 A.M.
ADDITIVES GEL 20 DESILTER RETURN. 8.7
SODA ASH. 1 D. DIS. 9.3
D. RUNS & HS. — 104 HRS

8 A.M. TO 4 P.M.
ADDITIVES GEL = 10 SK. D. RETURN > 8.9
RAPIDRIL = 2 SK. D. DIS > 9.3
= D. RUN - 8 HRS. - 112 HRS

4 P.M. TO 12 P.M.
ADDITIVES GEL - 15 SACKS
RAPIDRIL - 3 SACKS.

CORING

	NO.	FROM	TO	RECOVERED	FORMATION
12 P.M. TO 8 A.M.					
8 A.M. TO 4 P.M.					
4 P.M. TO 12 P.M.					

SURVEY

12 P.M. TO 8 A.M.	DEG. AT FT.	DEG. AT FT.	DEG. AT FT.
8 A.M. TO 4 P.M.	3/4 DEG. AT 4340 FT.	DEG. AT FT.	DEG. AT FT.
4 P.M. TO 12 P.M.	3/4 DEG. AT 4435 FT.	DEG. AT FT.	DEG. AT FT.

DRILL STEM TESTS

12 P.M. TO 8 A.M.
NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

8 A.M. TO 4 P.M.
NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

4 P.M. TO 12 P.M.
NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
12.00	2.30	DRILL
2.30	2.45	RIG SERV. B.O.P. ✓
2.45	8.00	DRILL

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK	
8.00	9.15	DRILL	1 1/4
9.15	9.30	R.S. C.I.C.	1/4
9.30	10.00	SURVEY @ 4340 - 3/4°	1/2
10.00	4.00	DRILL	6
			8

4 P.M. TO 12 P.M.

FROM	TO	HRS	DESCRIPTION OF WORK
4.00	5.15	1 1/4	DRILL
5.15	5.30	1/4	R16 SERVICE CLOSE 4 1/2 RAMS
5.30	8.00	2 1/2	DRILL
8.00	8.30	1/2	SURVEY
8.30	12	3 1/2	DRILL
			/
		8	

DRILLER P. Regier NO. HELPERS 4
DRILLER E. Shannon NO. HELPERS 4
DRILLER [illegible] NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 26 1970

WELL NAME H.B. PETITOT C-60
CONTRACTOR NABORS DRLG. LTD. TYPE RIG NATIONAL 50A
RIG NO. 6 TOOL PUSHER E. PRICE

LDG. FLG. TO KB 15.00
K. B. ELEV. 17.00
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795'	10 3/4	40.5	K-55	700 SX 2% CaCl		9.15 PM 2-12-70	R. WARAWA.

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 4010 PROGRESS 55 END 4065	START 4065 PROGRESS 105 END 4170	START 4170 PROGRESS 80 END 4250

BIT RECORD

	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12 P.M. TO 8 A.M.	5	18753	X16	8 3/4	4010	4065	55	4 1/4
8 A.M. TO 4 P.M.	5	18753	X1GJ	8 3/4	4010	4170	160	11
4 P.M. TO 12 P.M.	5	18753	X1GJ	8 3/4	4010	± 250	~~160~~ 240	18 1/4

DRILLING DATA

	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
12 P.M. TO 8 A.M.	5 1/2 x 16	1250	105	25 m.
8 A.M. TO 4 P.M.	5 1/2 x 16	1275	90-100	25-28m.
4 P.M. TO 12 P.M.	5 1/2 x 16	1275	68	28 m. - 25m

DRILLING STRING

	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
12 P.M. TO 8 A.M.	4 1/2	33	21.78	716.06	13.22	13.40
8 A.M. TO 4 P.M.	4 1/2	33	23	62.28	716.06	24.00	13.40
4 P.M. TO 12 P.M.	4 1/2	35	07.29		716.06	13.25	13.40

MUD RECORD

	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
12 P.M. TO 8 A.M.	GEL	9.9	60			
	RAPIDRIL					
8 A.M. TO 4 P.M.	GEL (5700')	9.4	45	11.0	9.0	2/32
	RAPIDRIL (12300')	8.9	69	11.0	8.5	2/32
4 P.M. TO 12 P.M.	GEL	9.8	60	11.0	9.0	2/32
	RAPIDRIL					

ADDITIVES (12 P.M. TO 8 A.M.): GEL 5 SX; RAPIDRIL 1 SX

ADDITIVES (8 A.M. TO 4 P.M.): GEL # 20 SKS. D. RETURN ⇒ 8.8; RAPIDRIL # 4 SKS. D. DIS ⇒ 9.3; ~~FOAM AGENT~~ D. RUN · 8 HRS ⇒ 96 HRS.

ADDITIVES (4 P.M. TO 12 P.M.): 2 SX SODA ASH; 13 SX GEL; 2 1/2 SX RAPIDRIL

CORING

	NO.	FROM	TO	RECOVERED	FORMATION
12 P.M. TO 8 A.M.					
8 A.M. TO 4 P.M.					
4 P.M. TO 12 P.M.					

SURVEY

12 P.M. TO 8 A.M.	1/4 DEG. AT 4060 FT.	DEG. AT FT.	DEG. AT FT.	
8 A.M. TO 4 P.M.	3/8 DEG. AT 4155 FT.	DEG. AT FT.	DEG. AT FT.	
4 P.M. TO 12 P.M.	3/4 DEG. AT 4245 FT.	DEG. AT FT.	DEG. AT FT.	

DRILL STEM TESTS

	NO.	INTERVAL	FORMATION
12 P.M. TO 8 A.M.			
8 A.M. TO 4 P.M.			
4 P.M. TO 12 P.M.			

	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)
12 P.M. TO 8 A.M.			
8 A.M. TO 4 P.M.			
4 P.M. TO 12 P.M.			

	GAS TO SURFACE	MIN. @	MCF/D MAX.
12 P.M. TO 8 A.M.			
8 A.M. TO 4 P.M.			
4 P.M. TO 12 P.M.			

	OIL TO SURFACE	MIN. @	BBL/D MAX.
12 P.M. TO 8 A.M.			
8 A.M. TO 4 P.M.			
4 P.M. TO 12 P.M.			

RECOVERY:

	PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP
12 P.M. TO 8 A.M.							
8 A.M. TO 4 P.M.							
4 P.M. TO 12 P.M.							

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
12:00	1:00	TRIP OUT CLOSE BLIND RAMS
1:00	1:15	RIG SERVICE
1:15	3:00	TRIP IN
3:00		BREAK CIRCULATION CLEAN
	3:15	TO BOTTOM 5' FILL
3:15	7:15	DRILL
7:15	7:45	SURVEY
7:45	8:00	DRILL

DRILLER H.A. Dyyin NO. HELPERS 5

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK	
8:00	8:15	R.G. C/K	1/4
8:15	2:00	DRILL	5 3/4
2:00		SURVEY @ 4155 ⇒ 5/8° FIRST	
	3:00	SURVEY WAS A (MISS RUN)	1
3:00	4:00	DRILL	1
			8

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK	
4:00	5:15	DRILL	1 1/4
5:15	5:30	R.G. C.K.	1/4
5:30	11:00	DRILL	
11:00	11:30	SURVEY	
11:30	12:00	DRILL	

DRILLER [illegible] NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME HB PETITOT C-60 | LDG. FLG. TO KB 15.00 | DATE FEB 25 1970

CONTRACTOR NABORS DRLG LTD | TYPE RIG NATIONAL 50 A. | K. B. ELEV. 1956

RIG NO. 6 | TOOL PUSHER E. PRICE | GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K-55	700 SAX 2% CaCl2		9:15 PM 24-2-70	R. WARAWA

12 P.M. TO 8 A.M.

DEPTH START 3717 PROGRESS 126 END 3843

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
4	21865	X16	8 3/4	3220	3843	623	27 1/2

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	1250	62-104	25-35

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	307 2.34		716.06	41.20	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL RAPIDRIL	12 AM 9.1 4 AM.	48			

ADDITIVES GEL 38~~00~~ SAX
RAPIDRIL 7 SAX

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY 3/4 DEG. AT 3749 FT. | 3/4 DEG. AT 3843 FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12 00	12 15	RIG SERVICE & HYDRIL
12 15	1 30	DRILL
1 30	2 00	SURVEY
2 00	7 30	DRL.
7 30	8 00	SURVEY

DRILLER [signature] NO. HELPERS 4

8 A.M. TO 4 P.M.

START 3843 PROGRESS 96 END 3939

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
4	21865	X16	8 3/4	3220	3939	719	34 3/4

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	1250	100-62-90	25 m. 30~

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	316 7.04		716.06	40.00	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL.	8:00 8.8	75			
RAPIDRIL	12M 8.8	60			

ADDITIVES GEL 20 SK. D. RET. 9.8
RAPIDRIL 4 SK D. DIS. 9.6
SODA-ASH 2 SK D. RUN 8 HRS

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY 1/4 DEG. AT 3938 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK	
8 00	8 15	RIG, C/K	1/4
8 15	3 15	DRILL	7 3/4
3 15	3 45	SURVEY @ 3938 = 1/4°	1/2
3 45	4 00	DRILL	1/4
			8

PUMPING BACK FROM SUMP 8.5
DESILTER USEING RIG FUEL

DRILLER L. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

START 3939 PROGRESS 71 END 4010

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
4	21865	X16	8 3/4	3220	4010	790	41

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	1250	90	35 m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	325 8.89		716.06	21.65	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL 23 SK 12:00	8.8	45			
RAPIDRIL 12:00	8.8	63			

ADDITIVES
SODA ASH 1 SK

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY 3/4 DEG. AT 4000 FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:

PRESS-URES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK	
4 00	6 15	DRILL	2 1/4
6 15	6 30	RIG. C.K	1/4
6 30	9 15	DRILL	
9 15	9 45	SURVEY	
9 45	11 00	DRILL	
11 00	12 00	TRIP OUT	

DRILLER [signature] NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 24 - 1970

WELL NAME	H.B. PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD	K. B. ELEV.	1956
RIG NO.	6	GRD. ELEV.	1939
TYPE RIG	NATIONAL 50 A.		
TOOL PUSHER	E. PRICE		

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10 3/4	40.5	K 55	700 SKS 2% CaCl		9:15 PM 24-2-70	R. WARHAM

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 3248 PROGRESS 182 END 3430	START 3430 PROGRESS 127 END 3557	START 3557 PROGRESS 160 END 3717

BIT RECORD

	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12 P.M. TO 8 A.M.	4		X16	8 3/4	3220	3430	210	8 1/2
8 A.M. TO 4 P.M.	4		X1GJ	8 3/4	3220	3557	337	13 3/4
4 P.M. TO 12 P.M.	4		X1GJ	8 3/4	3220	3717	503	20 3/4

DRILLING DATA

	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
12 P.M. TO 8 A.M.	5 1/2 x 14	1250	106	32 -
8 A.M. TO 4 P.M.	5 1/2 x 16	1250	106	25 m.
4 P.M. TO 12 P.M.	5 1/2 x 16	1250	106	25 m.

DRILLING STRING

	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
12 P.M. TO 8 A.M.	4 1/2			716.06	-	1340
8 A.M. TO 4 P.M.	4 1/2	2789.59	—	716.06	26.00	13.40
4 P.M. TO 12 P.M.	4 1/2	2977.32		716.06	10.22	13.40

MUD RECORD

	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
12 P.M. TO 8 A.M.	GEL	8.9	49			
	RAPIDRIL					
	ADDITIVES GEL 20 SX					
	RAPIDRIL 4 SX					
8 A.M. TO 4 P.M.	GEL. 15 SK	9.0	40			
	RAPIDRIL 3 SK	8.9	40			
	ADDITIVES					
4 P.M. TO 12 P.M.	GEL. 30 SKS	9.0	49			
	RAPIDRIL 6 SKS					
	ADDITIVES GEL 30 SX					
	RAPIDRIL 6 SX					

CORING

	NO.	FROM	TO	RECOVERED	FORMATION
12 P.M. TO 8 A.M.					
8 A.M. TO 4 P.M.					
4 P.M. TO 12 P.M.					

SURVEY

12 P.M. TO 8 A.M.	1 1/4 DEG. AT 3279 FT.	1° DEG. AT 3340 FT.	1 1/4 DEG. AT 3370 FT.
8 A.M. TO 4 P.M.	1 1/8 DEG. AT 3435 FT.	1° DEG. AT 3529 FT.	DEG. AT - FT.
4 P.M. TO 12 P.M.	7/8° DEG. AT 3623 FT.	DEG. AT FT.	DEG. AT FT.

DRILL STEM TESTS

	NO.	INTERVAL	FORMATION	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	GAS TO SURFACE	OIL TO SURFACE	RECOVERY:	PRESSURES
12 P.M. TO 8 A.M.							MIN. @ MCF/D MAX.	MIN. @ BBL/D MAX.		IHP FHP IFP FFP ISIP FSIP
8 A.M. TO 4 P.M.							MIN. @ MCF/D MAX.	MIN. @ BBL/D MAX.		IHP FHP IFP FFP ISIP FSIP
4 P.M. TO 12 P.M.							MIN. @ MCF/D MAX.	MIN. @ BBL/D MAX.		IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12 00	12 15	Rig Service — Chose 4 1/2" Rams
12 15	1 00	Drill
1 00	1 15	Survey
1 15	4 00	Drill
4 00	4 15	Survey
4 15	5 30	Drill
5 30	5 45	Survey 3° 00 - 4° 00 Drill
5 45	8 00	Drill

DRILLER [signature] NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
8 00		Survey @ 3435 ⇒ 1 1/8 & Rig. C.K. C.K.
	8 30	Hydril w/ Remote Control (good)
8 30	10 00	Drill
10 00		Replace w/ New Clutch. For Crt
	10 45	Herd Brake.
10 45	12 45	Drill
12 45		Work on main fuel line to
	1 15	floor motors.
1 15	2 50	Drill
2 50	3 00	Survey @ 3529 ⇒ 1°

DRILLER L. Shannon NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
4 00	6 30	Drill
6 30	7 10	Survey @ 3623 ⇒ 7/8° & Rig. C.K.
7 00	11 30	Drill
11 30	12 00	Survey

DRILLER [signature] NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb. 23 - 1970

WELL NAME H.B. PETITOT C-60
CONTRACTOR NABORS DRLG LTD
RIG NO. 6
TYPE RIG NATIONAL 50 A.
TOOL PUSHER E. PRICE

LDG. FLG. TO KB 12.00
K. B. ELEV. 1956
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	295	10 3/4	40.5	K55	700 SX 2% CaCl2			R.L. ARTHUR

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 2720 PROGRESS 255 END 2975	START 2975 PROGRESS 215 END 3190	START 3190 PROGRESS 58 END 3248

BIT RECORD

	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12 P.M. TO 8 A.M.	3	21871	X16	8 3/4	2720	2975	255	7 1/2
8 A.M. TO 4 P.M.	3	21871	X16J	8 3/4	2720	3190	470	15
4 P.M. TO 12 P.M.	3	21871	X16J	8 3/4	2720	3220	500	16 1/2
	4		X16J	8 3/4	3220	3248	28	1 1/2

DRILLING DATA

	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
12 P.M. TO 8 A.M.	5 1/2 X16	1200	105	35 m.
8 A.M. TO 4 P.M.	5 1/2 X16	1200	108 - 62	35 m.
4 P.M. TO 12 P.M.	5 1/2 X16		62	40 m.

DRILLING STRING

	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
12 P.M. TO 8 A.M.	4 1/2	227.57		716.06	17.97	13.40
8 A.M. TO 4 P.M.	4 1/2	241.10	31.36	716.06		13.40
4 P.M. TO 12 P.M.	4 1/2			716.06		13.40

MUD RECORD

	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
12 P.M. TO 8 A.M.	GEL	8.8	45			
	RAPIDRIL					
8 A.M. TO 4 P.M.	GEL.	8.8	40			
	RAPIDRIL	8.9	35			
4 P.M. TO 12 P.M.	GEL	8.9	45			
	RAPIDRIL					

ADDITIVES 12 P.M. TO 8 A.M.: GEL 45 SX; RAPIDRIL 8 SX

ADDITIVES 8 A.M. TO 4 P.M.: 15 GAL 5# RAPIDRIL-DESILTER-RETURNS 8.8; 6 GAL/MIN " DIS 9.6; " HRS 8-24 TOTAL

ADDITIVES 4 P.M. TO 12 P.M.: GEL; RAPIDRIL

CORING

	NO.	FROM	TO	RECOVERED	FORMATION
12 P.M. TO 8 A.M.					
8 A.M. TO 4 P.M.					
4 P.M. TO 12 P.M.					

SURVEY

12 P.M. TO 8 A.M.	1/8° DEG. AT 2780 FT.	DEG. AT FT.	DEG. AT FT.
8 A.M. TO 4 P.M.	1/4° DEG. AT 2999 FT.	DEG. AT FT.	DEG. AT FT.
4 P.M. TO 12 P.M.	1 1/4 DEG. AT 3216 FT.	DEG. AT FT.	DEG. AT FT.

DRILL STEM TESTS

	NO.	INTERVAL	FORMATION	VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	GAS TO SURFACE	MIN. @	MCF/D MAX.	OIL TO SURFACE	MIN. @	BBL/D MAX.	RECOVERY:	PRESSURES: IHP FHP IFP FFP ISIP FSIP
12 P.M. TO 8 A.M.														
8 A.M. TO 4 P.M.														
4 P.M. TO 12 P.M.														

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
12.00	1.00	DRILL
1.00	1.15	RIG SERVICE CLOSE 4 1/2" RAMS.
1.15	2.00	DRILL
2.00	2.15	SURVEY
2.15	8.00	DRILL

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK
8.00		RIG. C.K. + SERVICE, SWIVEL +
	8.30	SURVEY @ 2999 1/4°
8.30	4.00	DRILL

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK
4.00	4.45	DRILL
4.45	5.00	RIG SERVICE
5.00	5.15	SURVEY
5.15	5.45	REPAIR ROTARY CHAIN
5.45	6.30	DRILL
6.30	8.30	HOIST OUT
8.30	10.00	TRIP IN W/ BIT
10.00	10.30	BREAK CIRC CLEAN 20' FILL
10.30	12.00	DRILL

DRILLER H. A. Wynn NO. HELPERS 4

DRILLER L. Shannon NO. HELPERS 4

DRILLER [illegible] NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb. 22 - 1970

WELL NAME	H.B. PETITOT e-60		LDG. FLG. TO KB 15.00	CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
CONTRACTOR	NABORS DRLG LTD	TYPE RIG NATIONAL 50A.	K. B. ELEV. 17'		795	10 3/4	40.5	K55	700 SX $CaCl_2$	2%		R. WARAWA
RIG NO.		TOOL PUSHER E. PRICE	GRD. ELEV. 1939									

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 2146 PROGRESS 242 END 2388	START 2388 PROGRESS 282. END 2670	START 2670 PROGRESS 50 END 2720

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
12	20302	X16	8 3/4	2146	2388	242	6 1/2
2	20302	X16J	8 3/4	2146.	2670	524	14.
2	20302	X16J	8 3/4	2146	2720	557	16

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 15'	1200	130	40 m.
5 1/2 x 16	1200	110	40 m.
5 1/2 x 16.	1200	110	40 m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	1576.46	30.84	716.06	41.00	1340
4 1/2	1857.35	3144	716.06	40.00	1340
4 1/2.	1957.58		716.06	38.96	1340

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.3	55			
GEL & RAPID DRILL	8:00 9.2 / 12:00 8.9	45 / 36			
GEL & RAPIDRILL	8.8	38.			

ADDITIVES: GEL — 30 SX; RAPIDRIL 6.

ADDITIVES: GEL # 65 SK. RAPID DRILL = 11 SK.

ADDITIVES: GEL 17 SKS; RAPIDRIL 3 SKS.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

3/4 DEG. AT 2288 FT.	DEG. AT FT.	DEG. AT FT.
5/8 DEG. AT 2514 FT.	DEG. AT FT.	DEG. AT FT.
DEG. AT FT.	DEG. AT FT.	DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION		
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)		
GAS TO SURFACE MIN. @ MCF/D MAX.		
OIL TO SURFACE MIN. @ BBL/D MAX.		
RECOVERY:		
PRESSURES IHP FHP IFP FFP ISIP FSIP		

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	12:30	DRILL
12:30	12:45	RIG SERVICE CLOSE HYDRIL
12:45	4:00	DRILL
4:00	4:15	SURVEY
4:15	6:00	DRILL
6:00	7:00	WORK ON NO 1 PUMP
7:00	8:00	DRILL

DRILLER H.A. Dyjm NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
8:00	8:15	RIG CK.
8:15	10:15	DRILL
10:15	10:30	SURVEY @ 2514 = 5/8°
10:30	4:00	DRILL

DRILLER L. Shannon NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
4:00	4:15	RIG CK.
4:15	6:15	DRILL
6:15	7:00	FINISH MIXING MUD FOR TRIP
7:00	9:45	TRIP OUT FOR BIT BRK REMOVE STAB
9:45	11:45	RUN IN - REAM BRIDGES AT 1850.
11:45	12:00	BREAK CIRCULATION CLEAN 15' FILL 4:00 P.m.
		DESILTER = RETURN 85
		DE. DIS. 13.2

DRILLER H.A. Dyjm. NO. HELPERS 4.

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 21 1970

WELL NAME	HB PETITOT C-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD	K. B. ELEV.	17.00
RIG NO.	6	GRD. ELEV.	1939
TYPE RIG	NATIONAL 50 A.		
TOOL PUSHER	E. PRICE		

CASING RECORD

DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
795	10 3/4	40.5	K55	700 SX 2% CaCl			R. LARAWIA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 1660 PROGRESS 240 END 1900	START 1900 PROGRESS 246 END 2146	START 2146 PROGRESS — END 2146

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	95912	OSC3	8 3/4	795	1900	1125	21 1/4

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	95912	OSC3	8 3/4	795	2146.	1351	28 1/2

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	8 3/4	OSC3	8 3/4	795	2146	1351	28 1/2
2	8 3/4	X16	8 3/4	2146.			

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 16	1400	130	25

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 16	1325	130	25 m.

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 X 16	1200		40 m.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	1141.08		716.06	29.46	13.40

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2	1389.30	—	716.06	1600.	13.40

SIZE	STANDS	SINGLES	DRILL COL	KELLY IN	CORE BBL.
4 1/2	1389.30	—	716.06	1600	1340

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	8.9	38			

ADDITIVES 34 SX GEL 17# RAPID DRILL

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	8.9 9.1	33			
RAPID DRILL	9.1	45			

ADDITIVES 30 SK. GEL
6 SK RAPID DRILL

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL					

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

NO.	FROM	TO	RECOVERED	FORMATION

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

3/8 DEG. AT 1769 FT. | DEG. AT FT. | DEG. AT FT.

1/4° DEG. AT 1953 FT. | 1/8° DEG. AT 2108 FT. | DEG. AT FT.

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY
PRESSURES IHP FHP IFP FFP ISIP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY
PRESSURES IHP FHP IFP FFP ISIP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12 00	12 15	DRLG
12 15	12 30	RIG SERVICE CHOKE 4 1/2 RAMS OK
12 30	2 30	DRLG
2 30	3 30	WORK TIGHT PIPE
3 30	3 45	SURVEY
3 45	8 00	DRILL

DRILLER H.G. Dyjin NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
8 00	8 15	R.C. OK
8 15	9 45	DRILL
9 45	10 00	SURVEY @ 1953 @ 1/4°
10 00	1 45	DRILL
1 45	2 00	SURVEY @ 2108 @ 1/8°
2 00	4 00	DRILL

DRILLER L. Johnson NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
4 00		HOIST FOR NEW BIT PULL 2 STDS & 1 SINGLE - BACK REAM OUT 1 SINGLE & PULL 11 STDS - BACK
	9 30	REAM 3 SINGLES PULL OUT OF HOLE
9 30		HOOK UP WATER THRU DRUM
	10 15	WORK ON ROTARY CLUTCH.
10 15	11 30	RUN IN
11 30		BREAK CIRCULATION CLEAN
	12 00	70' TO BOTTOM

DRILLER H.G. Dyjin NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME HB PETIOT C-60 | LDG. FLG. TO KB 15.00 | DATE Feb 20-1970

CONTRACTOR NABORS DRLG LTD | TYPE RIG NATIONAL 50A. | K. B. ELEV. 17' | GRD. ELEV. 1939

RIG NO. 6 | TOOL PUSHER E. PRICE

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795	10¾	40.5	K55	700 Sx + 2% Ca Cl		9:15 PM 2-19-70	R. WABANA

12 P.M. TO 8 A.M.

DEPTH START 795 PROGRESS 119 END 914

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	95912	OSC3	8¾	795	914	119	1¾

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	1200	60	5 - 20

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½			716.06		

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
WATER	8.4	28			

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVEFY:

PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, [illegible]ING, [illegible]GS

FROM	TO	DESCRIPTION OF WORK
12⁰⁰	12¹⁵	LAY DOWN 2 SINGLES
12¹⁵	12³⁰	RIG SERVICE
12³⁰	2⁰⁰	PICK UP 8 COLLARS
2⁰⁰	5¹⁵	DRILL OUT FLOAT CEMENT & SHOE DRILL 10F HOLE
5¹⁵	6¹⁵	DUMP & CLEAN TANKS DISPLACE HOLE
6¹⁵	8⁰⁰	DRILL 8¾" HOLE

DRILLER H. A. DYJUR NO. HELPERS 4

8 A.M. TO 4 P.M.

START 914 PROGRESS 324 END 1238

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	95912	OSC3J	8¾	795	1238	443	7½

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	1200	60	25.000

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL	KELLY IN	CORE BBL.
4½	468.72		716.06	40.00	SUBS STABILIZER 13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES 22 SKS GEL 8" RoLLS DRILL
1 SK. SODA ASH

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: ½° DEG. AT 795 FT. | 1° DEG. AT 1238 FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
2⁰⁰	2⁴⁵	TRIP OUT
2⁴⁵		PICK UP STABILIZER + 2 SUBS
	9¹⁵	PUT 60' FROM BIT
9¹⁵	9⁵⁰	RIG SERV. / PIPE RAMS
9⁵⁰	10⁰⁰	RUN IN
10⁰⁰	3⁴⁵	DRILL 8¾" HOLE
3⁴⁵	4⁰⁰	SURVEY @ 1238.

DRILLER E. Glennon NO. HELPERS 4

4 P.M. TO 12 P.M.

START 1238 PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1	95912	OSC3J	8¾	795			

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	1400	130	25 M.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	SUBS & STABILIZER
4½	904.06		716.06	28.48	13.40

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.6	38			

ADDITIVES 20 SX GEL 8" RoLLS DRILL
WATER.

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY: ¾° DEG. AT 1329 FT. | ¾° DEG. AT 1455 FT. | ⅜° DEG. AT 1640 FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4⁰⁰	5¹⁵	DRILL
5¹⁵	5³⁰	SURVEY
5³⁰	7¹⁵	DRILL
7¹⁵	7³⁰	SURVEY
7³⁰	11⁰⁰	DRILL
11⁰⁰	11¹⁵	SURVEY
11¹⁵	12⁰⁰	DRILL

DRILLER H. A. Dyjur. NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb. 19-70

WELL NAME	H.B. PETITOT E-60	LDG. FLG. TO KB	15.00
CONTRACTOR	NABORS DRLG LTD	TYPE RIG	NATIONAL 50 A
RIG NO.	6	TOOL PUSHER	
K. B. ELEV.	19.00	GRD. ELEV.	1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN	COMPANY SUPERVISOR
	795'	10 3/4	40.5	K-55	700 SX 2% CaCl		9:15 PM 2-18-70	R. WARAWA

	12 P.M. TO 8 A.M. E. PRICE	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START WOC PROGRESS END	START PROGRESS END	START PROGRESS END
BIT RECORD (NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN)	WOC		1 / 95912 / OSC3J / 8 3/4
DRILLING DATA (LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT)	5 1/2 x 16		5 1/2 x 16
DRILLING STRING (SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.)			
MUD RECORD (TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES)			
CORING (NO. / FROM / TO / RECOVERED / FORMATION)			
SURVEY (DEG. AT FT.)			
DRILL STEM TESTS (NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY; PRESSURES IHP FHP IFP FFP ISIP FSIP)			

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
12:00	8:00	WOC

DRILLER [signature] NO. HELPERS 4

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK
8:00	4:00	W.O.C.

DRILLER E. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK
4:00	10:00	WOC NIPPLE UP
10:00	1	PRESSURE TEST BLIND RAMS
	10:15	1000 PSI 15 MIN. OK. RW
10:15	11:00	RUN IN W/ PIPE.
11:00	11:15	PRESSURE TEST 4 1/2" RAMS 1000 PSI
		15 MIN OK RW
11:15		PRESSURE TEST HYDRIL & KELLY
	11:45	COCK 1200 PSI 30 MIN OK RW
11:45	12:00	TEST MOTOR SHUT OFFS OK
		RW

DRILLER H. Dyck NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE FEB 18 1970

WELL NAME H.B. PETITOT C-60
CONTRACTOR NABORS DRLG LTD
RIG NO. 6
TYPE RIG NATIONAL 50A.
TOOL PUSHER E. PAKE
LDG. FLG. TO KB
K. B. ELEV. 17
GRD. ELEV. 1939

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR R. WARAWA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 623 PROGRESS ~~135~~ 135 END ~~758~~ 758	START 758 PROGRESS 37 END 795	START PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
2A	97674	OSC3	15"	514	758	244	8

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
2A	97674	OSC3	15"	514	795	281	10 3/4

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	500	180	25,000

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5 1/2 x 16	500	180	25,000

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL	KELLY IN	CORE BBL.
4 1/2			475.95		

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4 1/2			475.95	32.00	

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	10.4	125			

ADDITIVES

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES 25 SAKS GEL

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

NO.	FROM	TO	RECOVERED	FORMATION

NO	FROM	TO	RECOVERED	FORMATION

SURVEY

1/2 DEG. AT 646 FT. | 1/2 DEG. AT 740 FT | DEG. AT FT

1/2 DEG. AT 740 FT | 1/2 DEG. AT 795 FT | DEG. AT FT.

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX
OIL TO SURFACE MIN @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

NO. INTERVAL FORMATION
VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)
GAS TO SURFACE MIN. @ MCF/D MAX.
OIL TO SURFACE MIN. @ BBL/D MAX.
RECOVERY:
PRESSURES IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING LOGGING PERFORATING ACIDIZING FRACTURING PLUGS

FROM	TO	DESCRIPTION OF WORK
12 00	12 15	DRILL
12 15	12 30	RIG SERVICE
12 30	12 45	SURVEY
12 45	3 15	DRILL
3 15	3 30	SURVEY
3 30	4 30	DRILL
4 30	6 30	CLEAN OUT FLOW LINE PLUGGED W/ MUD RINGS
6 30	7 30	TRIP OUT TO CLEAN MUD RINGS SLM

DRILLER H. A. Dykes NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
8 00	8 30	TRIP IN
8 30	8 45	R.S. SERV
8 45	11 30	DRILL 12¼" HOLE
11 30	12 30	CIRCULATE TO RUN CASING
12 30	12 45	SURVEY @ 795 = 1/2°
12 45	1 45	HOIST TO RUN CASING
1 45	2 45	RIG TO RUN CASING
2 45	4 00	RUNNING CASING

DRILLER L. Shannon NO. HELPERS 4

FROM	TO	DESCRIPTION OF WORK
4 00	6 30	RUN CASING.
6 30	7 00	RIG UP TO CIRCULATE
7 00	7 45	CIRCULATE CASING.
7 45	9 15	RIG UP TO CEMENT & CEMENT CSG.
9 15	12 00	W.O.C.
		RAN 19 JTS 10 3/4" OD SMLS K-55 40.5# CASING LANDED AT 795 KB CEMENT WITH 700 SKS HOWCO CMT. W/ 2% CaCl2 PLUG DOWN 9:15 PM 2-18-70

DRILLER H. A. Dykes NO. HELPERS 4

H. G. DIRK

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited — DAILY DRILLERS REPORT

WELL NAME BB PETITOT C-60 | LDG. FLG. TO KB | CASING RECORD | DEPTH | SIZE | WEIGHT | GRADE | CEMENT | ACID | PLUG DOWN | COMPANY SUPERVISOR

CONTRACTOR NABORS DRLG LTD | TYPE RIG NATIONAL 50 A. | K. B. ELEV. 17'

RIG NO. 6 | TOOL PUSHER E PRICE | GRD. ELEV. 1939

DATE Feb. 12-70 | R. WARAWA

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START 343 PROGRESS ~~46~~ 117 END 460	START 460 PROGRESS 62. END 522.	START 522. PROGRESS 101 END 623

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1A	98502	OSC3	15"	~~343~~ 0	460	~~117~~ 460	~~7~~ 30
1A	98502	OSC3	15"	0	514	514	35 1/4
2A	97674	"	15"	514	522.	9	3/4
2A	97624	OSC3	15"	514	623	109	34 1/4

DRILLING DATA

12 P.M. TO 8 A.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	600	180	25 M

8 A.M. TO 4 P.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	600.	180	26 - 30.

4 P.M. TO 12 P.M.			
LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	450	180	25 M.

DRILLING STRING

12 P.M. TO 8 A.M.					
SIZE	~~STANDS~~ SUBS.	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
	5 & 3		414.35	40.22	

8 A.M. TO 4 P.M.					
SIZE	~~STANDS~~ 5 & 3 SUBS.	SINGLES	~~DRILL COL.~~ 18	475.95	41.00.

4 P.M. TO 12 P.M.					
SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
4½	1	1	475.95	1634	

MUD RECORD

12 P.M. TO 8 A.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL - LIME	9.1	48			

ADDITIVES

8 A.M. TO 4 P.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL.					

ADDITIVES GEL 7. 10 SAX

4 P.M. TO 12 P.M.					
TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
	10.3	64			

ADDITIVES

CORING

12 P.M. TO 8 A.M.				
NO	FROM	TO	RECOVERED	FORMATION

8 A.M. TO 4 P.M.				
NO	FROM	TO	RECOVERED	FORMATION

4 P.M. TO 12 P.M.				
NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

12 P.M. TO 8 A.M.: 3/4 DEG. AT 343 FT. | 1½° DEG. AT 374 FT. | 3/4 DEG. AT 430 FT.

8 A.M. TO 4 P.M.: ½° DEG. AT 460 FT. | ½° DEG. AT 492 FT. | DEG. AT FT.

4 P.M. TO 12 P.M.: ½° DEG. AT 553 FT. | DEG. AT FT. | FT.

DRILL STEM TESTS

12 P.M. TO 8 A.M.			
NO.	INTERVAL	FORMATION	
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	
GAS TO SURFACE	MIN. @	MCF/D MAX.	
OIL TO SURFACE	MIN. @	BBL/D MAX.	
RECOVERY:			
PRESSURES	IHP	FHP	IFP / FFP / ISIP / FSIP

8 A.M. TO 4 P.M.			
NO.	INTERVAL	FORMATION	
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	
GAS TO SURFACE	MIN. @	MCF/D MAX.	
OIL TO SURFACE	MIN. @	BBL/D MAX.	
RECOVERY:			
PRESSURES	IHP	FHP	IFP / FFP / ISIP / FSIP

4 P.M. TO 12 P.M.			
NO.	INTERVAL	FORMATION	
VALVE OPEN (MINS.)	INITIAL SHUT-IN (MINS.)	FINAL SHUT-IN (MINS.)	
GAS TO SURFACE	MIN. @	MCF/D MAX.	
OIL TO SURFACE	MIN. @	BBL/D MAX.	
RECOVERY:			
PRESSURES	IHP	FHP	IFP / FFP / ISIP / FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.		
FROM	TO	DESCRIPTION OF WORK
12⁰⁰	12¹⁵	RIG SERVICE
12¹⁵	12³⁰	SURVEY
12³⁰	2¹⁵	DRILL
2¹⁵	2³⁰	SURVEY
2³⁰	5³⁰	DRILL
5³⁰	5⁴⁵	SURVEY
5⁴⁵	8⁰⁰	DRILL

DRILLER H A DYCK NO. HELPERS 4

8 A.M. TO 4 P.M.		
FROM	TO	DESCRIPTION OF WORK
8¹⁵	8¹⁵	SURVEY @ 460 ½°
8¹⁵	11⁰⁰	DRILL 15" HOLE (CONTROL DRLG)
11⁰⁰	11¹⁵	SURVEY @ 492 ½°
11¹⁵	1⁴⁵	DRILL 15" HOLE
1⁴⁵	3¹⁵	TRIP FOR NEW B.T.
3¹⁵	4⁰⁰	DRILL 15" HOLE.

DRILLER L. E. Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.		
FROM	TO	DESCRIPTION OF WORK
4⁰⁰	4¹²	C. & SERVS.
4¹²	4⁴⁵	DRILL 15" HOLE
4⁴⁵	5⁰⁰	SURVEY @ 553 ½°
5⁰⁰	6⁰⁰	DRILL 15" HOLE.
6⁰⁰	10⁰⁰	CLEAN GRAVEL & SHALE OUT OF ~~SUCTION~~ VALVE POTS. MUD CONTAMINATED W/ LIME CONDITION MUD
	10⁰⁰	
10⁰⁰	12⁰⁰	DRILL

DRILLER H. A. Dyck NO. HELPERS 4

52 - 88AX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME H.B.O.G. PETITOT E-60 | CONTRACTOR NABORS DRLG LTD. | TYPE RIG NATIONAL 50 A. | RIG NO. 6 | TOOL PUSHER E. PRICE

LDG. FLG. TO KB | K. B. ELEV. 17' | GRD. ELEV.

DATE 7-16-1970

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR R. WARSWA

12 P.M. TO 8 A.M.

DEPTH START 0 PROGRESS 74 END 74

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1A	98602	OSC3	15"	0	74	74	8

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	200	50	ALL

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL	KELLY IN	CORE BBL.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL & LIME	8.4	55			

ADDITIVES 12 SAX GEL

CORING

NO.	FROM	TO	RECOVERED	FORMATION

DEVIATION SURVEYS

DEG. AT	FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00	8:00	DRILL 15" HOLE.

DRILLER H.A. DYKUR. NO. HELPERS 4

8 A.M. TO 4 P.M.

DEPTH START 74 PROGRESS 106 END 180

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1A	98502	OSC3	15	0		180	15½

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON B.T
5½ x 16	300	50 - 180	12 - M.

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.
			5 148.08	2700.	

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	8.8	60			
"	8.9	45.			

ADDITIVES 12 SAXS

CORING

NO.	FROM	TO	RECOVERED	FORMATION

DEVIATION SURVEYS

¾ DEG. AT	74 FT.	⅛ DEG. AT	163 FT.	DEG. AT	FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK
8:00	8:15	SURVEY @ 74 = ¾ + RIG SERV.
8:15	3:00	DRILL 15" HOLE.
3:00	3:15	~~SURVEY @ 163 = ⅛°~~ SURVEY @ 163' ⅛°
3:15	4:00	DRILL 15" HOLE.

DRILLER [illegible] NO. HELPERS 4

4 P.M. TO 12 P.M.

DEPTH START 180 PROGRESS END

BIT RECORD

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1A	98502	OSC3	15	0	343	343	13

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 16	600	180	25

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL	9.1	47			

ADDITIVES GEL ⇒

CORING

NO	FROM	TO	RECOVERED	FORMATION

DEVIATION SURVEYS

¼ DEG. AT	254 FT.	DEG. AT	FT.	DEG. AT	FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

FROM	TO	DESCRIPTION OF WORK
4:00	5:00	DRILL 15" HOLE.
5:00	5:15	RIG SERV.
5:15	8:00	DRILL 15" HOLE.
8:00	8:15	SURVEY @ 254
8:15	12:00	DRILL

DRILLER H.A. DYKUR. NO. HELPERS 4

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 15 1976

WELL NAME	H.B. Pelkat C-60	LDG. FLG. TO KB	
CONTRACTOR	Nabors Drlg.	TYPE RIG	Nat 50A
RIG NO.	6	TOOL PUSHER	Lonnie Price
		K. B. ELEV.	
		GRD. ELEV.	

CASING RECORD

DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR: R. Warawa

12 P.M. TO 8 A.M.

DEPTH

BIT RECORD

START NO.	SERIAL NO.	TYPE	SIZE	PROGRESS FROM	PROGRESS TO	FOOTAGE	HRS. RUN

DRILLING DATA

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO	FROM	TO	RECOVERED	FORMATION

SURVEY: DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL./D MAX.

RECOVERY.

PRESSURES: IHP FHP IFP FFP ISIP FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
12:00		Clean out tanks & rig up
	5:00	Clean out Pumps & rig up.

DRILLER H Duggan NO. HELPERS

8 A.M. TO 4 P.M.

START / PROGRESS / END

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES: IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
5:00		[redacted] Put pumps together & [redacted] to mix mud.
		Weld on [redacted] mud tanks. Rigging up to
7:00		Spud.

DRILLER L Shannon NO. HELPERS 4

4 P.M. TO 12 P.M.

START / PROGRESS / END

NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
1A	98602	OSC3	15				

LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT
5½ x 14			

SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

TYPE OF MUD	WEIGHT	VIS	WL	PH	FC
GEL & LIME					

ADDITIVES 12 SAX GEL
5 SAX SAWDUST
1 SAK LIME.

NO.	FROM	TO	RECOVERED	FORMATION

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES: IHP FHP IFP FFP ISIP FSIP

FROM	TO	DESCRIPTION OF WORK
4:00		mixing mud & Rig up to
	12:00	spud

DRILLER NO. HELPERS

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb 14 1970

WELL NAME H.B. Pettitot C-60

CONTRACTOR Nabors Drlg. | TYPE RIG Nat 50A

RIG NO. 6 | TOOL PUSHER E. Price

LDG. FLG. TO KB

K. B. ELEV.

GRD. ELEV.

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR R. Warawa

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START / PROGRESS / END	START / PROGRESS / END	START / PROGRESS / END
BIT RECORD	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN
DRILLING DATA	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT
DRILLING STRING	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.
MUD RECORD	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES
CORING	NO. / FROM / TO / RECOVERED / FORMATION	NO. / FROM / TO / RECOVERED / FORMATION	NO. / FROM / TO / RECOVERED / FORMATION
SURVEY	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.
DRILL STEM TESTS	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
8:00	5:00	Rig up at new lease-
		Rig up boiler
		Started Boiler at
		12:00 noon Feb 14 1970

DRILLER Ed Shannon NO. HELPERS

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK
8:00	4:00	Rig up at New Lease
		Line up pump.
		Work on Steam line

DRILLER W Dygas NO. HELPERS

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK
4:00	12:00	
		Rig up Rig

DRILLER Ed Shannon NO. HELPERS

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

WELL NAME: H.B. Petitot C-60
CONTRACTOR: Nabors Daly
RIG NO.: 6
TYPE RIG: Nat 50 A
TOOL PUSHER: [illegible]
LDG. FLG. TO KB:
K. B. ELEV.:
GRD. ELEV.:
DATE: Feb 13 1970

CASING RECORD	DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR: R. Warawa

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START / PROGRESS / END	START / PROGRESS / END	START / PROGRESS / END
BIT RECORD	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN	NO. / SERIAL NO. / TYPE / SIZE / FROM / TO / FOOTAGE / HRS. RUN
DRILLING DATA	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT	LINER SIZE / PUMP PRESSURE / TABLE SPEED / WEIGHT ON BIT
DRILLING STRING	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.	SIZE / STANDS / SINGLES / DRILL COL. / KELLY IN / CORE BBL.
MUD RECORD	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES	TYPE OF MUD / WEIGHT / VIS / WL / PH / FC; ADDITIVES
CORING	NO. / FROM / TO / RECOVERED / FORMATION	NO. / FROM / TO / RECOVERED / FORMATION	NO. / FROM / TO / RECOVERED / FORMATION
SURVEY	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.	DEG. AT FT. / DEG. AT FT. / DEG. AT FT.
DRILL STEM TESTS	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP	NO. / INTERVAL / FORMATION; VALVE OPEN (MINS.) / INITIAL SHUT-IN (MINS.) / FINAL SHUT-IN (MINS.); GAS TO SURFACE MIN. @ MCF/D MAX.; OIL TO SURFACE MIN. @ BBL/D MAX.; RECOVERY:; PRESSURES IHP / FHP / IFP / FFP / ISIP / FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

12 P.M. TO 8 A.M.

FROM	TO	DESCRIPTION OF WORK
8 00	8 00	Finish Rigging up Camp. Rig up rig at new Lea.

DRILLER: C. Shannon — NO. HELPERS:

8 A.M. TO 4 P.M.

FROM	TO	DESCRIPTION OF WORK
8 00	8 00	Rig up Rig at new Lea.

DRILLER: W. Dozzus — NO. HELPERS:

4 P.M. TO 12 P.M.

FROM	TO	DESCRIPTION OF WORK

DRILLER: — NO. HELPERS:

52 - 8BAX4
REV. 3/69

Hudson's Bay Oil and Gas Company Limited

DAILY DRILLERS REPORT

DATE Feb. 12 1970

WELL NAME	HB. Lobstick C-60	LDG. FLG. TO KB	
CONTRACTOR	Nabors Drilling	K. B. ELEV.	
RIG NO.	6	GRD. ELEV.	
TYPE RIG	National 50 AJ		
TOOL PUSHER	Lonnie Faire		

CASING RECORD

DEPTH	SIZE	WEIGHT	GRADE	CEMENT	ACID	PLUG DOWN

COMPANY SUPERVISOR: R. Warawa

	12 P.M. TO 8 A.M.	8 A.M. TO 4 P.M.	4 P.M. TO 12 P.M.
DEPTH	START	START	START

BIT RECORD

PROGRESS	NO.	SERIAL NO.	TYPE	SIZE	FROM	TO	FOOTAGE	HRS. RUN
END								
PROGRESS								
END								
PROGRESS								
END								

DRILLING DATA

START	LINER SIZE	PUMP PRESSURE	TABLE SPEED	WEIGHT ON BIT

DRILLING STRING

START	SIZE	STANDS	SINGLES	DRILL COL.	KELLY IN	CORE BBL.

MUD RECORD

START	TYPE OF MUD	WEIGHT	VIS	WL	PH	FC

ADDITIVES

CORING

NO.	FROM	TO	RECOVERED	FORMATION

SURVEY

DEG. AT FT. | DEG. AT FT. | DEG. AT FT.

DRILL STEM TESTS

NO. INTERVAL FORMATION

VALVE OPEN (MINS.) INITIAL SHUT-IN (MINS.) FINAL SHUT-IN (MINS.)

GAS TO SURFACE MIN. @ MCF/D MAX.

OIL TO SURFACE MIN. @ BBL/D MAX.

RECOVERY:

PRESSURES	IHP	FHP	IFP	FFP	ISIP	FSIP

REMARKS INCLUDING: CEMENTING, LOGGING, PERFORATING, ACIDIZING, FRACTURING, PLUGS

FROM	TO	DESCRIPTION OF WORK
700	100	Rig out Camp and Move to new Lease. rig up Camp. Camp operating at new Lease 700 PM Feb 12/70

DRILLER Ed Shannon NO. HELPERS

FROM	TO	DESCRIPTION OF WORK
700	700	rig out camp and move to new lease. rig up camp.

DRILLER N/ Dragon NO. HELPERS

FROM	TO	DESCRIPTION OF WORK

DRILLER NO. HELPERS