

Drilling Authority No. 473
Date Issued 11 December 1979

WELL NAME Horn River Gulf A Unit Antoine M-34
FIELD
LOCATION: Unit 8 Area: 34 Grid 61-50-122-00
Latitude 61-43-51 Longitude 122-07-09
U.W.L.R. 61.73167 --- 122.11917
U.W.I. 30043156122000

Rig Release Date:
Status:
Information Release Date:

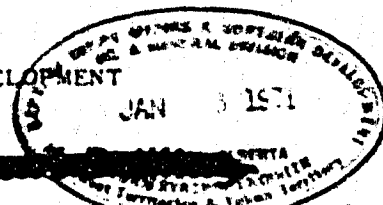
CHANGE OF NAME:

DATE RECEIVED	INDEX
14-12-70	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
29-1-71	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells - Vitter's Method.
	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....



File No. _____
Drilling Authority No. 473

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to Abandon a Well

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

Name and number of well Horn River Gulf Aquit Antoine M-34
Location: Unit M Section 34 Grid 61°50' N Lat, 122°00' W L
Latitude 61°43'54" North Longitude 122°07'09" West
From Established Reference Marker
Universal Well Location Reference Lat. 61.73167° N. Long. 122.11917° W.
Permit No. 4400 Lease No. _____

Banff Oil Ltd., Aquitaine Co. of Canada
(Permittee, Lessee, Licensee) Ltd

Date of commencement of proposed program Jan. 3, 1971 5:15 AM

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at _____
Gas at _____
Water at 3010 to 3200 (DST #1)
Total Depth 3894 Date of last operations Jan. 24, 1971 11:59 PM
Present condition of well Dry and Abandoned

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 8-5/8"	24#	526	516 KB	480	NIL
2.				with 3% CaCl ₂ added to the first 320 sacks	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
1	3894 - 2944	Base of Nahanni Limestone, Lower Keg River Dolomite, Bear Rock Anhydrite, Red Beds, Cambrian Sand, PreCambrian	240 sx cement plus 4% gel	
2	570 to surface		160 sacks plus 4% Gel	
	cut casing 3 feet below ground. Weld on plate.		Also rod and well marker.	

The following logs have been run IES Gamma Sonic Bore Hole Logs
Other operations proposed NIL

Operations to be carried out by Kenting Oilwell Drilling Contractor Licence No. 800
Address Ft. Simpson N.W.T. Address _____
Responsible Agent in field Gordon Gillis
Dated at Calgary this 25 Day of January 19 71
Signed by *Gordon Gillis* Company Horn River Resources Ltd.
Title President Operator's Exploratory Licence No. 1785

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

(For OIL AND MINERAL 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. Thomas
on the 23rd January 1971.

Dated 29th January 19 71

[Signature]
Oil Conservation Engineer

LAND 52-90 (5) (2-69)

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

POOR COPY

Drilling Authority No. 473

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
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 **Born River Gulf Aquit Aquifers 2-34**
Location: Unit **H** Section **34** **61°50' N. Lat., 122°00' W. Long**
Latitude **61°43'54"** Longitude **122°07'09"**
Unique Well Identifier **300346150122000**
Universal Well Location Reference **Lat. 61.73157° N., Long. 122.11917° W.**
Elevation: Ground **2186** K.B. **Est. 2196** feet above sea-level.
Well is expected to produce from **Middle Devonian** formation at a depth
of about **3500** feet. Expected total final depth **4900**
Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. **4400** Lease No. **60,622**
Permittee, licensee, or lessee **Barrif Oil Ltd. and Aquitaine Company of Canada Ltd.**
Exploratory Licence No. **1636**
Surface owned by Crown or **Crown**

(If applicant submits 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	Grade of Cement
8 5/8"	24.9	J-55	NEW	300	250
1.					
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment **Middle Devonian Carbonates**

GE 10" 500 Series Hydril H.O.P.

10" 900 Series Mechanical

Well will be drilled with Rotary Rig No. **9** by **Darting Oilwell Drilling**

(Drilling Contractor or company)

Responsible agent of applicant:—

At well **Cordon Mills**

Address **Can. Del., Fort Simpson**

Contractor's business Licence No. **800**

At registered office **P. L. Healey**

Address **1025 Aquitaine Tower, 540 Fifth Ave. S.W.**

Calgary 1, Alta.

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

Dated at **Calgary**, this **10** day of **December** **70**

Signed by **Thurley** Company **Born River Resources Ltd.**

Title **President** Operator's Licence No. **1785**

(For Oil and Mineral Division use only)

APPROVED

1. This application has been examined and approved subject to the following conditions:—
Copies of this drilling authority shall be submitted to the Drilling Rig in both the
Boghouse and the Drilling Foreman's Office between and end rig release dates.

2. The Company will submit to this office, on Tuesday of each week, the latest reports

Dated **14th December**

70

Please see over page

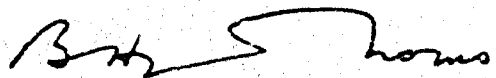
Oil Conservation Engineer

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

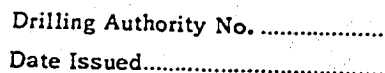
POOR COPY

received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure 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.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Intermediate and production strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.



B.H.J. Thom, Oil Conservation Engineer



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

NT

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION

JUN 25 1971

document, recompleti
CALGARY, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

WELL COMPLETION DATA

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

JUN 25 1964
CALGARY

Well name and number.....Horn River Gulf Aquit Antoine M-34.....
 Permit No. 4400.....Lease No.
 Aquitaine.....Exploratory Licence No.....1627
 (Permittee, Licensee, Lessee)
 Horn River Resources Limited.....Exploratory Licence No.....1785
 (Operator)

Location: Unit M Section 34 Grid 61°50' N. Lat. 122°00' W. Long.
 Latitude 61°34'54" Longitude 122°07'09"
 Unique well identifier 300 M 346150122000
 Universal Well Location Reference Lat. 61.73167°N., Long. 122.11917°W.

CASING RECORD

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Jan24/71	3894	2944	240 sax & 4% Gel				nil				nil
Jan24/71	570	Surface	160 sax & 4% Gel								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	LS.L Mins.	F.S.L Mins.	LS.L.B.H.P.	F.S.L.B.H.P.	LF.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
1.	Jan23/71	Lower Keg R.	3115	3195	60	30	60	691	669	299	568	1559	1559	recovered 660 feet of salt water (190,000 ppm)

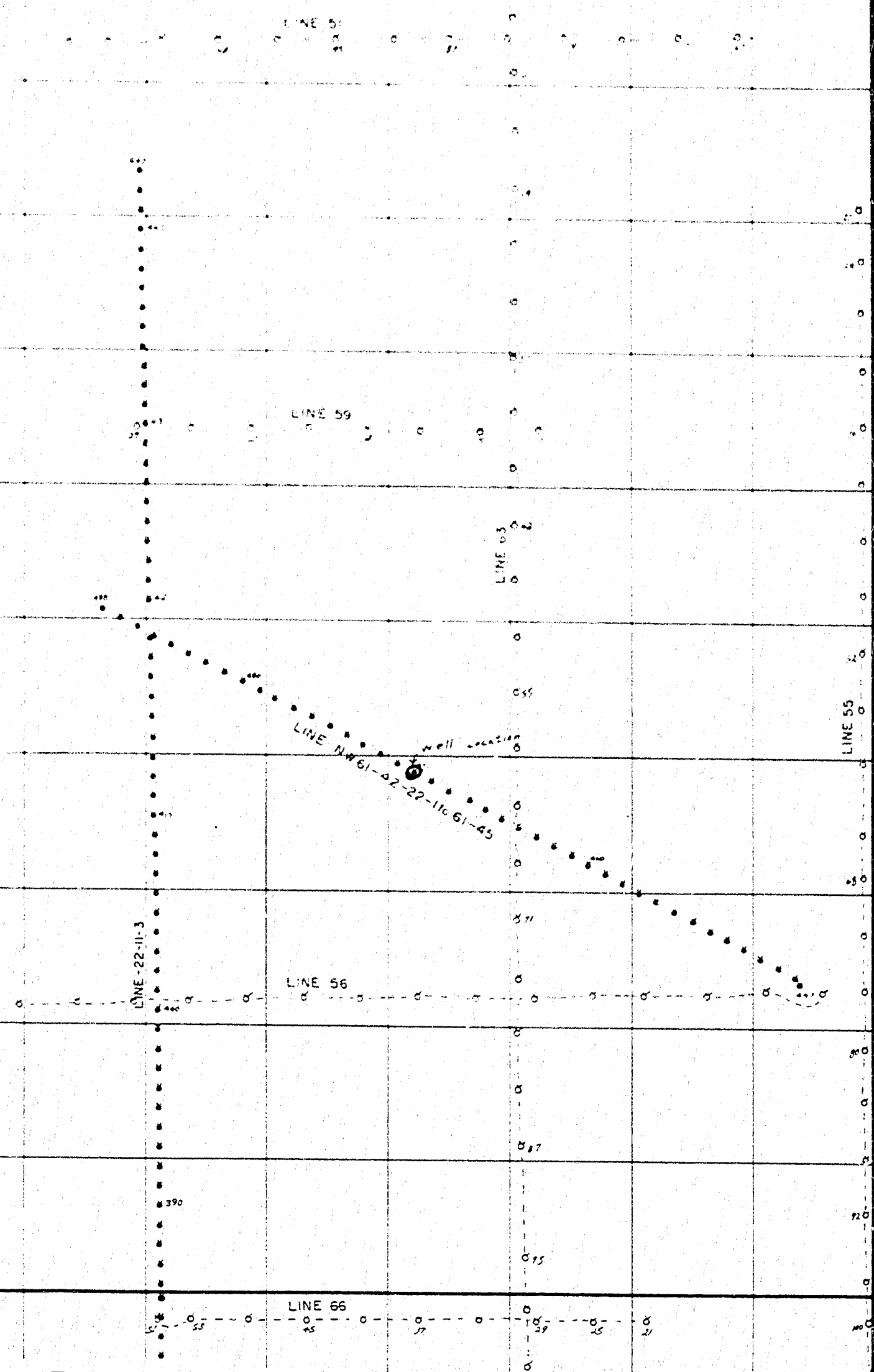
ANALYSIS						PRESENT STATUS OF WELL				
Lab. No.	Sample	From	To	Source	Remarks	Oil		(Interval)	Company	
				nil					Signed by	<i>Shubert</i>
						Gas		(Interval)	Title	President
						Dry			Date	June 16, 1971
						Susp.			Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.	

61°50'

MARTIN HILLS

Oil Canada Limited
INTERPRETATION
PORTION OF
MAP 95
TOPOGRAPHIC INTERPRETATION
ENGINEERING MAP
DATING BY
DEPT. OF
COMMISSIONER GENERAL
INTERP. BY
GEO. H. H. H. H.
M.L.C.

6587C
DEC 10 1970



(MATCH 95-H-NW)

61°40'

Antoine Lake Well

- 2 -

Prognosis:

Estimated K.B. 2200 feet

	<u>Depth</u>	<u>Subsea</u>
Cretaceous	Surface	+2185
Devonian		
Fort Simpson Shale	500	+1700
Horn River Shale	2580	- 380
Mahanni Limestone ¹	2630	- 430
Lower Keg River Dolomite	3230	-1030
Bear Rock Anhydrite	3430	-1230
Cambrian		
Basal Clastics ²	4000	-1800
PreCambrian		
Quartzite	4200	-2000
Metamorphic	4700	-2500
Total Depth	4900	-2700

Prognosis is based on:

1. Seismic event mapped on the first carbonate.
2. Deeper Seismic event is interpreted as Cambrian.
3. Other tops are computed from isopach values.

OPERATION REEF
NORTHWEST TERRITORIES
CANADA

Geological and Engineering
REPORT

Horn River Gulf Aquit. ANTOINE M-34

PREPARED FOR
HORN RIVER RESOURCES LTD.

PREPARED BY
JAMES A. LEWIS ENGINEERING CO. LTD.
Petroleum Reservoir Analysts
CALGARY - ALBERTA

INTRODUCTION

This is a concise report of the operations conducted at the well

Horn River Gulf Aquit Antoine M-34

This well was drilled through the co-operative exploration program conducted by Horn River Resources Ltd. in the Northwest Territories of Canada under

"OPERATION REEF"

Data in this report were compiled by James A. Lewis Engineering Co. Ltd. Drilling data were taken from the tour reports of Kenting Oilwell Drilling Ltd. Geological data were supplied by Gulf Oil Canada Ltd.

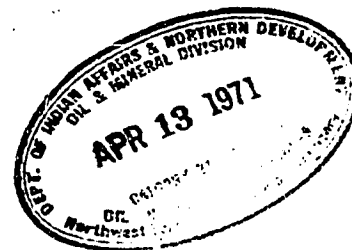


TABLE OF CONTENTS

	Page
Section 1	
GENERAL:	
Summary of Well Data	1
Section 2	
GEOLOGICAL:	
Formation Tops	2
Sample Description	3
Section 3	
DRILLING AND ENGINEERING:	
Daily Drilling Reports	4
Bit Record	6
Summary of Mud Additives	7
Survey Record	8
Drill Stem Test Report	9
Surface Casing Report	10
Abandonment Report	11
Section 4	
Logging Data	12

Section 1

GENERAL

SUMMARY OF WELL DATA

WELL: Horn River Gulf Aquit Antoine M-34

NAME OF OPERATOR: Horn River Resources Ltd.
1020 Aquitaine Tower, 540 Fifth Avenue S.W., Calgary

LEGAL DESCRIPTION: Unit M, Section 34, Grid 61° 50' N., 122° 00' W.

LOCATION: LATITUDE: 61° 43' 54" LONGITUDE: 122° 07' 09"

UNIVERSAL WELL LOCATION REFERENCE: Lat. 61. 73167° N. Long. 122. 11917° W

UNIQUE WELL IDENTIFIER: 300M346150122000

CO-ORDINATES: _____

PERMIT OR LEASE: 4400

PERMITTEE, LICENCEE, LESSEE: Banff Oil Ltd. and Aquitaine Company of Canada Ltd.

DRILLING AUTHORITY: 473 DATE: December 14, 1970

CLASSIFICATION: Exploratory Wildcat

ELEVATION: GROUND: 2186' K.B. 2196' Est

DRILLING CONTRACTOR: Kenting Oilwell Drilling Riq No. 9 Rotary

WELLSITE GEOLOGIST: Provided By: Gulf Oil Canada Ltd.

SURFACE CASING: 8-5/8" - 24 lb. - J-55 set @ 518' K.B. w/c 480 sax + 2% CaCl₂

HOLE SIZE: 0 to 425' - 12-1/4", 425' to 3894' - 7-7/8"

MUD SYSTEM: Gel Chemical

CORES: None Taken

FORMATION TESTS: DST No. 1: 3115 to 3195' Nahanni and Lower Keq River

ASANDONMENT PLUGS: No. 1: 3894 to 2944'. 240 sax + 4% Gel
No. 2: 570 to Surface 160 sax + 4% Gel

LOST CIRCULATION: None

LOGS: Induction Electrical 3890 to 517'
BHC-SGRC 3888 517'
Velocity Survey

WELL SPUDDED: 5:15 p.m. January 3, 1971

FINISHED DRILLING: 5:00 a.m. January 21, 1971

RIG RELEASED: 11:59 p.m. January 24, 1971

TOTAL DEPTH: 3894'

STATUS: Dry and Abandoned

Section 2
GEOLOGICAL

WELL: Horn River Gulf Aquit Antoine M-34

James A. Lewis Engineering Co. Ltd.

SAMPLE DESCRIPTION

Horn River Gulf Aquit Antoine M-34

0 - 470'	Unconsolidated sand coarse grained, varicolored with varicolored gravel, minor Siltstone and Shales, light brown.
470 - 2600'	(Fort Simpson) Shale, medium grey, platy, micromicaceous, traces of fish fragments.
2600 - 2680'	(Horn River) Shale, medium dark brown to black, blocky, scattered disseminated pyrite.
2680 - 3125'	(Nahanni) Limestone, very light brown to chalky, dense cryptocrystalline, locally earthy, locally shale. Stringers.
3125 - 3285'	(Lower Keg River) Dolomite. Light brown dense to creamy fine to medium crystalline, some calcite veinlets, traces drusy crystals, poor intercrystalline porosity, traces pin point porosity.
3285 - 3805'	(Bear Rock) Anhydrite, light brown, semitranslucent. Minor Dolomite as above.
3805 - 3820'	(Red Beds) Redbeds, anhydritic, silty and sandy mudstone.
3820 - 3854'	(Basal Sand) Sandstone, quartzose, varicolored, pinkish, fine grained some red matrix. Locally sandstone, light greenish and red, argillaceous, locally mudstone, dolomitic.
3854 - 3894'	(T.D.) Precambrian Red Argillite, some white light greenish, non-calcareous argillites.

Section 3

DRILLING AND ENGINEERING

SUMMARY OF DAILY DRILLING OPERATIONS

Horn River Gulf Aquit Antoine M-34

Date	Depth	Operation
1-3-71	0'	Rigging up to spud.
1-4-71	221'	Drilling 12-1/2" surface. Spudded 5:15 p.m. January 3, 1971.
1-5-71	368'	Drilling 12-1/2" surface hole. Survey 279' - 3/4° 368' - 1/8°.
1-6-71	524'	Circulating to run casing.
1-7-71	524'	Heading up. Ran 17 joints 8-5/8" - 24 lb. J-55. Casing plus Float Collar and Guide Shoe 526.87' overall. Landed at 518' K.B. Cemented with 320 sax cement plus 25 lbs. gel-flake plus 2% CaCl ₂ . Plug down 6:00 p.m. No returns. Re-cemented from surface with 160 sax cement to get returns. Second plug down 6:30 p.m.
1-8-71	1312'	Drilling 7-7/8" hole. Tested Blind Rams and surface manifold to 1,000 psi held for 15 minutes. Tested Pipe Rams and Hydril to 1,000 psi held for 15 minutes. Drilled out.
1-9-71	2252'	Drilling 7-7/8" hole. Mud wt. 8.8 Vis. 28
1-10-71	2703'	Drilling 7-7/8" hole. Mud wt. 8.8 Vis. 34
1-11-71	2790'	Working stuck pipe hole sloughed, causing blockage of returns.
1-12-71	2790'	Working stuck pipe.
1-13-71	2790'	Working stuck pipe. Backed off at 2409'. Circulating over fish.
1-14-71	2790'	Circulating over fish.
1-15-71	2790'	Circulating and conditioning hole after fishing.
1-16-71	3065'	Drill 7-7/8" hole. Mud wt. 9.0 Vis. 197.
1-17-71	3134'	Drill 7-7/8" hole. Mud wt. 8.9 Vis. 68.
1-18-71	3367'	Drill 7-7/8" hole. Mud wt. 9.2 Vis. 68

SUMMARY OF DAILY DRILLING OPERATIONS (Continued)

Horn River Gulf Aquit Antoine M-34

Date	Depth	Operation
1-19-71	3448'	Drill 7-7/8" hole. Mud wt. 9.2 Vis. 68
1-20-71	3667'	Drill 7-7/8" hole. Mud wt. 9.3 Vis. 58
1-21-71	3894'	Drill 7-7/8" hole. Mud wt. 9.2 Vis. 54
1-22-71	3894'	Circulating to Log. Hole has been very tight. Last 24 hours spent conditioning well.
1-23-71	3894'	Running in with DST No. 1. Ran IE Log 3890' to 517' Ran BHCSGRC Log 3888' to 517'.
1-24-71	3894'	Running in drill pipe to plug well. Ran DST No. 1: 3115' to 3195'. Recovered 660' salt water.
1-25-71	3894'	Rig released. Ran Plug No. 1: 3894' - 2944', 240 sax + 4% Gel. Plug down 11:00 a.m. Ran Plug No. 2: 570' to Surface, 160 sax + 4% Gel. Plug down 7:15 p.m. Rig released 11:59 p.m. January 24, 1971.

BIT RECORD

WELL: Horn River Gulf Aquit Antoine M-34

BIT NO.	SIZE & TYPE	DEPTH OUT, Feet	FOOTAGE, Feet	HOURS	WEIGHT, M Pounds	R.P.M.	CONDITION
1A	12-1/4 X3A	132	132	4½			5-1-1
2A	12-1/4 X1G	253	121	3½			7-2-1
3A	7-7/8 X1G	400	147	3			8-4-2
4A	12-1/4 ST3	Ream	147	3½			
4A	12-1/4 ST3		109	4½	20	180	8-5-1
5A	12-1/4 OSC	524	48	2½	20	180	4-4-1
1	7-7/8 X1G	1800	1276	17¼	10-15	180	
2	7-7/8 ST1G	2703	903	23	30	110	5-6-1
3	7-7/8 SCH-5	2790	87	7¾	30	40	
4	7-7/8 XDV	3065	275	22¾	35	70	
5	7-7/8 X55R	3382	323	30¾	40	42	
6	7-7/8 X55R	3894	512	49¾	40	44	3-7-1
7	7-7/8 X55R	3894	0	-	-	-	-

SUMMARY

Surface Hole 524 of 12-1/4 " 15 hours on bottom.
Main Hole 3370 of 7-7/8 " 150-3/4 hours on bottom.
Core Hole _____ of _____ " _____ hours on bottom.

James A. Lewis Engineering Co. Ltd.

SUMMARY OF MUD ADDITIVES

Horn River Gulf Aquit Antoine M-34

Gel	477 Sacks	47,700 lbs.
DV-68	21 Gallons	21 gal.
CMC	17 Sacks	850 lbs.
Caustic Soda	7 Sacks	350 lbs.
Peltex	12 sacks	600 lbs.

SURVEY RECORD

Horn River Gulf Aquit Antoine M-34

Depth, Feet	Deviation, Degrees
741	1/4
1133	3/4
1432	2-3/4
1523	2-1/2
1615	1-1/2
1763	3
1800	2-3/4
1849	2-1/2
2010	2-1/2
2133	2-1/2
2223	2-1/2
2534	2
2673	2-3/4
3065	1-1/2
3894	3/4

DRILL STEM TEST REPORT

WELL: Horn River Gulf Aquit Antoine M-34

DATE: January 23, 1971 TEST NO. 1
 INTERVAL TESTED: 3115' - 3195' FORMATION: Nahanni & L. Keg River
 TOTAL DEPTH DRILLER: 3894' LOGS: IES & BHCSGRC
 HOLE SIZE: 7-7/8" RAT HOLE SIZE: N/A
 TESTING COMPANY: Lynes United OPERATOR: Lewchuk
"Dual Straddle By-Pass"

MUD	DRILL PIPE	TEST TOOL
Type <u>Gel-Chern</u>	Type <u>FH</u>	Size Rubber <u>7"</u>
Wt. <u>9.0</u>	Size <u>4 1/2</u>	Type <u>-</u>
Visc. <u>65</u>	Size T.J. <u>5-5/8</u>	Tool Type <u>-</u>
W.L. <u>6.8</u>	Collars <u>5 1/2 and 6 1/4</u>	Size Choke <u>3/4</u>
pH <u>9.5</u>	Jars <u>-</u>	Wt. to Set <u>-</u>
F.C. <u>2/32</u>	Safety Joint <u>-</u>	Pull Loose <u>-</u>
Conditions <u>Good</u>	Pumpout Sub. <u>-</u>	Fluid Cushion <u>-</u>

Bit off Bottom <u>10:45 a.m. 1-22-71</u>	Preflow <u>6</u> min.	B.H. Temp. <u>129</u> °F.
Start Tester in <u>10:00 a.m. 1-23-71</u>	I.S.I. <u>30</u> min.	Gauge Depths <u>3094</u> K.B.
Tester on Bottom <u>1:15 p.m.</u>	Tool Open <u>60</u> min.	<u>3121</u> K.B.
Tool Open <u>2:00 p.m.</u>	F.S.I. <u>60</u> min.	<u>3219</u>
Tool Closed <u>2:06 p.m.</u>	Upper Gauge	Lower Gauge
Tool Open <u>2:36 p.m.</u>	I.H.S. <u>1554</u> psig	I.H.S. <u>1559</u> psig
Tool Closed <u>3:36 p.m.</u>	Preflow <u>132</u> psig	Preflow <u>131</u> psig
Tool Loose <u>5:15 p.m.</u>	I.S.I. <u>696</u> psig	I.S.I. <u>691</u> psig
Tool Out <u>8:15 p.m.</u>	Initial Flow <u>160</u> psig	Initial Flow <u>299</u> psig
Rubber Condition <u>Good</u>	Final Flow <u>360</u> psig	Final Flow <u>568</u> psig
Test O.K. <u>Yes</u>	Final S.I. <u>672</u> psig	Final S.I. <u>669</u> psig
	F.H.S. <u>1554</u> psig	F.H.S. <u>1559</u> psig

BLOW: Good initial puff. Fair air blow, steady during flow.

RECOVERY: 660' salt water, approximately 190,000 ppm

James A. Lewis Engineering Co. Ltd.

SURFACE CASING DETAILS

Horn River Gulf Aquit Antoine M-34

Size: 8-5/8" O.D.

Weight: 24 lb/ft

Grade: J-55 New

Amount: 526.87' including Guide Shoe and Float Collar

Landed At: 518' K.B.

Cemented With: 320 sax of Neat Portland cement plus 25 lbs. of Gel - Flake plus 2% CaCl_2
No returns. Re-cemented from top with 160 sacks of Neat cement.

Plug Down: 6:30 p.m. January 6, 1971

ABANDONMENT PLUGS

Horn River Gulf Aquit Antoine M-34

Plug Number 1

3894' to 2944', 240 sax of cement plus 4% Gel. Not felt.

Plug Number 2

570' to Surface. 160 sax of cement plus 4% Gel.

Cut off surface casing, welded on steel plate and marker.

Section 4

WELL LOG DATA

Horn River Gulf Aquit Antoine M-34

Log	Scale	Interval
Induction Electrical	2" & 5"/100'	3890' - 517'
Borehole Compensated Sonic Log Gamma Ray Caliper	2" & 5"/100'	3888' - 517'

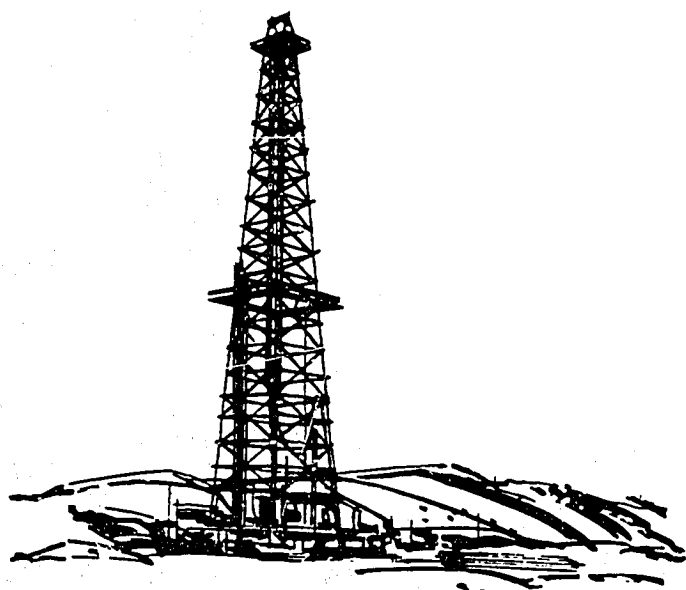
Horn River Resources Ltd.

610 43' 54.00 1220 07' 09.00

LYNES

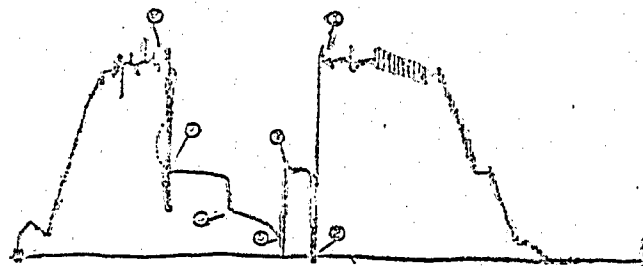
BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools

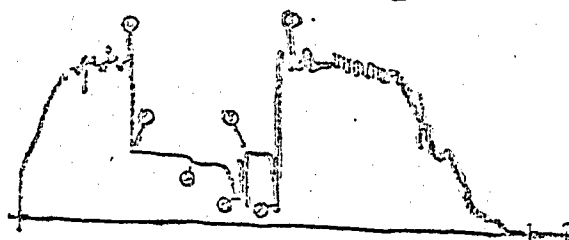


**DRILL STEM TEST
TECHNICAL SERVICE REPORT**

JOHN RIVER GULF ADULT ANTENNA
 10-24-1957-2



JOHN RIVER GULF ADULT ANTENNA
 10-24-1957-3



JOHN RIVER GULF ADULT ANTENNA
 10-24-1957-4
John Stoddard



Q	= average production rate during test, bbls./day
Q _z	= measured gas production rate during test, MCF/day
k	= permeability, md
h	= net pay thickness, ft. (when unknown, test interval is chosen)
μ	= fluid viscosity, centipoise
Z	= compressibility factor
T _r	= reservoir temperature, ° Rankine
m	= slope of final SIP buildup plot, psig/cycle (psig ² /cycle for gas)
b	= approximate radius of investigation, feet
r _w	= wellbore radius, feet
t _o	= total flowing time, minutes
P _o	= Extrapolated maximum reservoir pressure, psig
P _f	= final flowing pressure, psig
P.I.	= productivity index, bbls./day/psi
P.I. _t	= theoretical productivity index with damage removed, bbl./day/psi
D.R.	= damage ratio
E.D.R.	= estimated damage ratio
AOF	= absolute open flow potential, MCF/D
AOF _t	= theoretical absolute open flow if damage were removed
z	= subsea depth
W	= water gradient based on salinity
H _w	= potentiometric surface

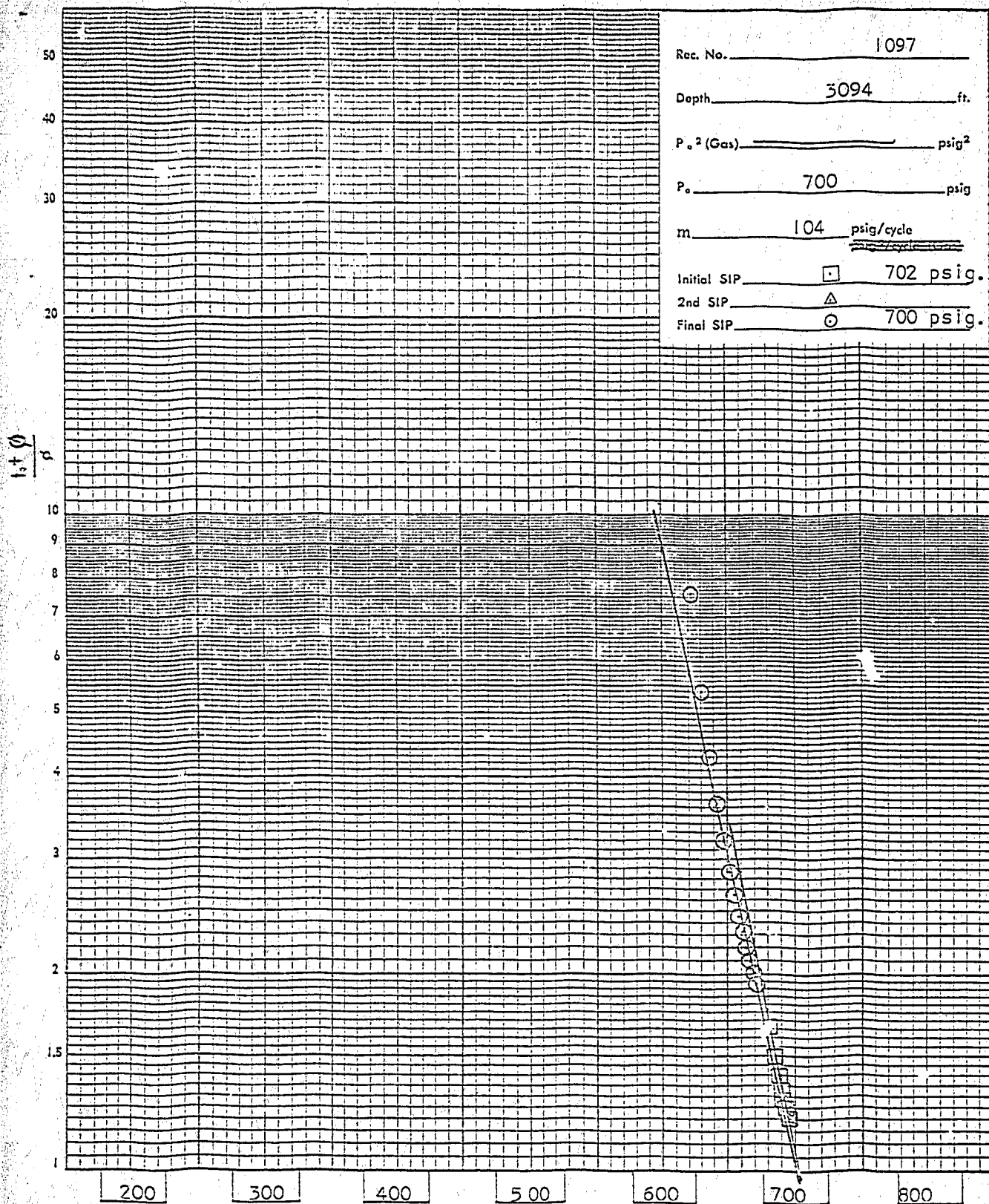
In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

DEFINITION OF SYMBOLS

Recorder Depth <u>3094</u> ft. Subsea depth <u> </u> ft. Ticket No. <u>2012</u> Hour Recorder No. <u>1097</u>									
$t_o = 6$ Mins. Initial Shut-In Pressure				Second Flow Pressure		$t_o = 66$ Mins. Final Shut-In Pressure			
Time, Min. ϕ	$\frac{t_o + \phi}{\phi}$	PSIG	PSIG ² +10 ⁵ (Gas)	Time Defl. .000"	PSIG	Time, Min. ϕ	$\frac{t_o + \phi}{\phi}$	PSIG	PSIG ² +10 ⁵ (Gas)
0	-----	132				0	-----	360	
3	3.000	651				5	14.200	607	
6	2.000	674				10	7.600	623	
9	1.667	682				15	5.400	631	
12	1.500	686				20	4.300	637	
15	1.400	688				25	3.640	643	
18	1.333	690				30	3.200	648	
21	1.286	692				35	2.885	652	
24	1.250	693				40	2.650	655	
27	1.222	695				45	2.467	658	
30	1.200	696				50	2.320	661	
						55	2.200	664	
						60	2.100	666	
						65	2.015	670	
						70	1.942	672	

[illegible]

PRESSURE DATA



Rec. No. 1097
 Depth 3094 ft.
 P_o^2 (Gas) _____ psig²
 P_o 700 psig
 m 104 psig/cycle
 Initial SIP ☒ 702 psig.
 2nd SIP ☒ _____
 Final SIP ☒ 700 psig.

PSIG (OIL OR WATER)

PRESSURE EXTRAPOLATION PLOT

DST # 1

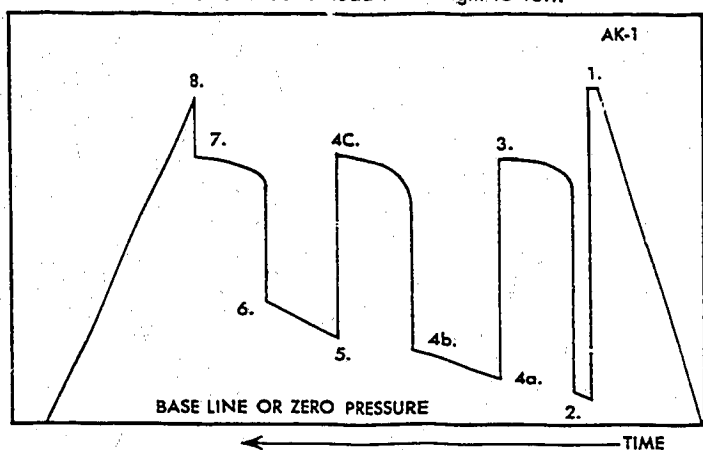
LYNES UNITED SERVICES LTD.

TEST DATA				GENERAL INFORMATION			
Formation	Nahanni		T.D.	3892	Fr.	Company	Kenting OilWell Drilling
Interval Tested	3115	Ft. to	3195	Ft.	Address	c/o Horn River Resources Ltd.	
Feet of Net Pay Tested	80		Ft.				
Type of Test	Dual Straddle By-Pass						
Cushion	Amount		Fr.	Well Name	Horn River Gulf Aquit Antoine M-34		
Started in Hole at	5:00	Hrs.	Tool Open at	Hrs.	Well Number	610 43' 54.00 122° 07' 09.00	
Pre-Flow	6	Mins.	Initial Shut-in	30	Mins.	K.S. Elevation	Sub-Sea Elevation
2nd Flow		Mins.	Second Shut-in		Mins.	Area	Martin Hill Province N.W.T.
Final Flow	60	Mins.	Final Shut-in	70	Mins.	Company Rep.	J. Hulkerick
Remarks:	Slow trip in hole due to frozen air lines.				Tester	G. Lewchuk	
					Contractor	Kenting	Ria No. 9
					Ticket No.	2012	Date January 23/71
Blow:	Tool opened with good initial puff. Fair air blow, steady.				Service Reports To:	5 - above address	
GAS BLOW MEASUREMENTS				MUD AND HOLE DATA			
Measured with				Mud Type Gel			
				Weight 9.0 Viscosity 65 Water Loss 6.8			
				Filter Cake 2/32" Bottom Hole Temperature 1290			
Time	Surface Choke	Reading Inches	Cubic Feet/Day	Drill Pipe Size 4 1/2" FH Weight 16.60			
				Drill Collar 5 1/2" H90 I.D. 2 7/8" Feet Run 290			
				Main Hole or Casing Size 7 7/8"			
				Rathole or Liner Size No. of Feet			
				Bottom Hole Choke Size 3/4"			
				Surface Choke Size 1"			
				Packer Rubber Size 7"			
				REMARKS Shut-in pressures suggest average permeability within the interval tested.			
RECOVERY							
TOTAL FLUID RECOVERED 660 Ft. Consisting of:							
660 Ft. of salt water							
Ft. of							
Ft. of							
Ft. of							
Test was/was not Reverse Circulated was not							
Oil Recovery A.P.I. Water Specific Gravity							
Salinity 190,000 PPM							
PRESSURE READINGS							
Inside X Outside		Inside Outside X		Inside Outside X		Inside Outside	
Recorder No. 1097		Recorder No. 2262		Recorder No. 966		Recorder No.	
Capacity 4000		Capacity 4950		Capacity 5000		Capacity	
Depth 3094		Depth 3121		Depth 3219		Depth	
NUMBER KEY:							
1 - INITIAL HYDROSTATIC		1554		1559		1599	
2 - PRE-FLOW		132		131			
3 - INITIAL SHUT-IN		696		691			
4a - 2nd INITIAL FLOW							
4b - 2nd FINAL FLOW							
4c - 2nd SHUT-IN							
5 - 3rd INITIAL FLOW		160		299			
6 - FINAL FLOW		360		568			
7 - FINAL SHUT-IN		672		669			
8 - FINAL HYDROSTATIC		1554		1559		1587	

Horn River Resources Ltd.
 Kenting OilWell Drilling
 Company
 610 43' 54.00 122° 07' 09.00
 Horn River Gulf Aquit Antoine M-34
 Well Name and Description
 #1
 Test No.
 January 23/71
 Date of Test

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

AK-1 recorders. Read from right to left.

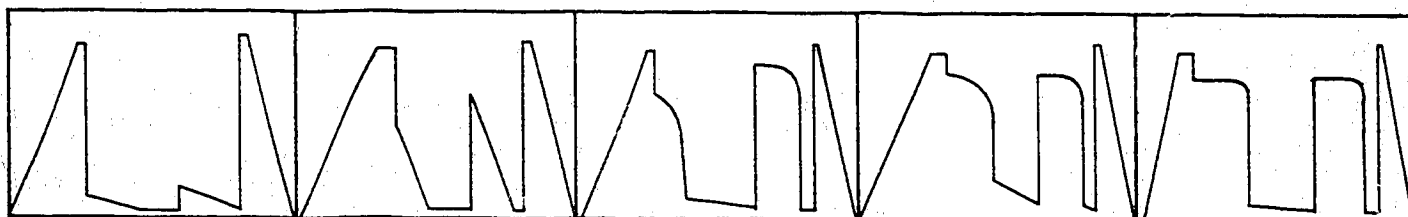


1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

K-3 recorders. Read from left to right.

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

Typical charts for visual field analysis ranging from very low to high permeability.



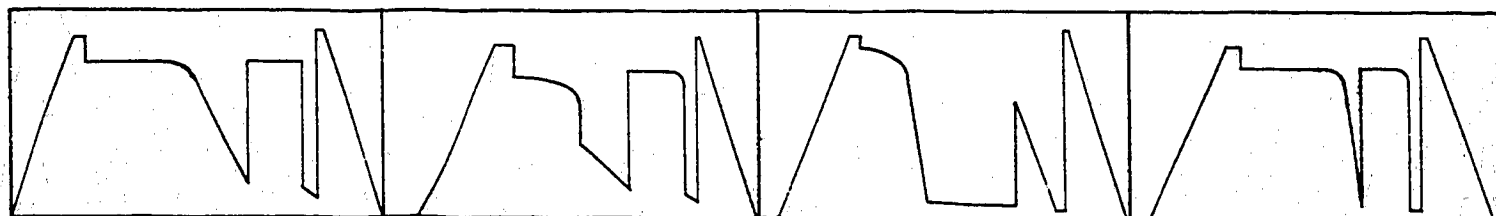
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again mud recovered.

Slightly higher permeability. Small recovery, less than 200' ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.

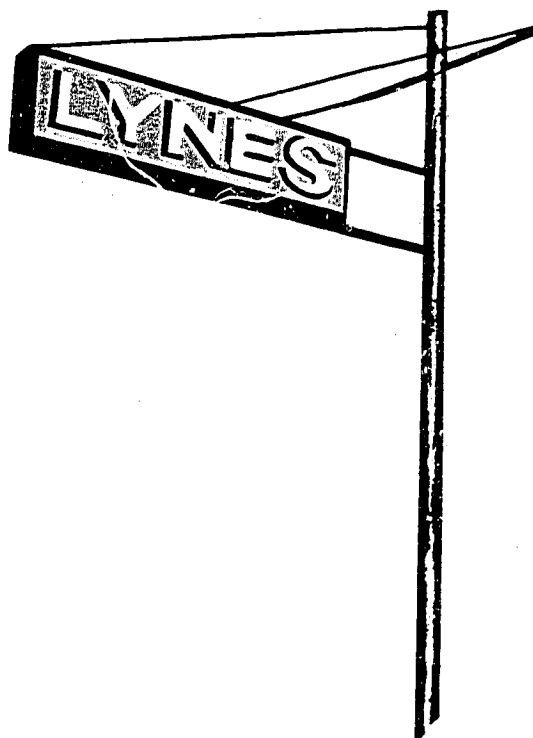


Excellent permeability where final flow final shut-in pressure.

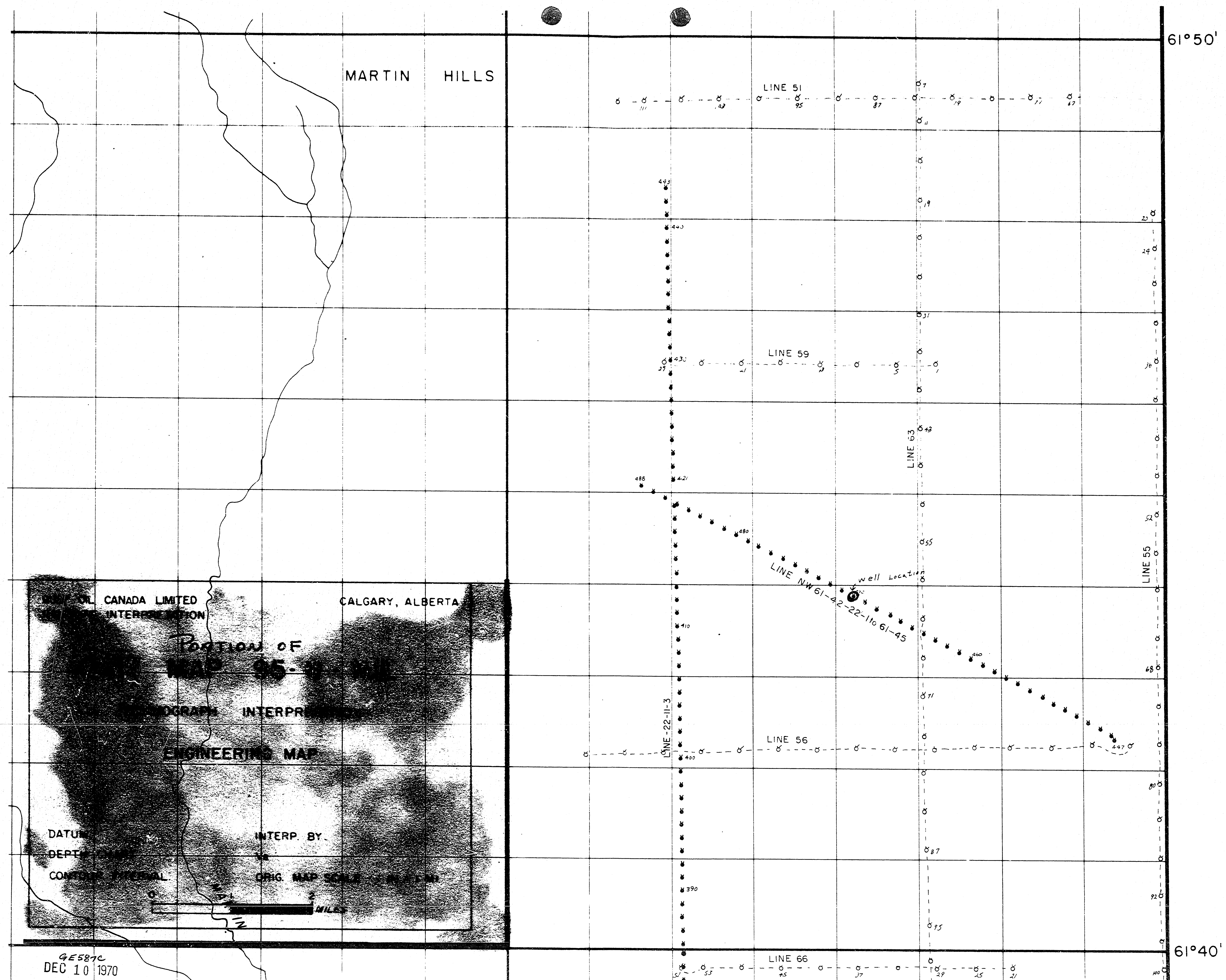
High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.



LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA



(MATCH 95-H-N-W)

GE587C
DEC 10 1970

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION Horn River M-34 AREA Mannathia DATE Jan 23 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller A. BRYANT	12													
Derrick A. OLSON	12													
Floor E. HARSTAD	12													
Floor														
Floor														
Motor R. METAR	12													
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller														
Derrick														
Floor														
Floor														
Floor														
Motor														
Mechanic B. CROSS	8													
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller L. SANDER	12													
Derrick K. JOHNSON	8													
Floor														
Floor														
Floor														
Motor D. LACHANCE	12													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
RIG OUT LOGGERS	12 ⁰⁰	12 ¹⁵	1/4
RIG SER	12 ¹⁵	12 ³⁰	1/4
W.O.C.	12 ³⁰	1 ³⁰	1
WORK ON AIR LINE ON	1 ³⁰		
HYDROLOGIC PUMP STRINGS CAT			
LINE		2 ⁴⁵	1 1/4
WORK ON AIR CONTROL FOR 2 ⁴⁵			
HIGH + LOW CLUTCH + THAW			
OUT MUD ROLL + FLARE		5 ⁰⁰	2 1/4
LINE			
RUN IN 11 STANDS FOR TAIL	5 ⁰⁰		
PIPE + MAKE UP TEST TOOL		8 ⁰⁰	3
Company Time			
Cont'r Time			
MAKE UP TEST	8 ⁰⁰	10 ⁰⁰	2
RUN IN TEST #1 (slow)	10 ⁰⁰	12 ³⁰	2 1/2
PICK UP 8 SWELLES + RUN	12 ³⁰		
IN SAME		1 ¹⁵	3/4
RIG UP TEST HEAD	1 ¹⁵	2 ⁰⁰	3/4
TEST	2 ⁰⁰	4 ⁰⁰	2
Company Time			
Cont'r Time			
TEST	4 ⁰⁰	4 ³⁰	1/2
TEAR OUT TEST HEAD	4 ³⁰		
PULL TOOLS LOOSE		5 ¹⁵	3/4
HOLD DST #1 (slow)	5 ¹⁵	8 ¹⁵	3
BREAK DOWN TEST TOOL	8 ¹⁵		
+ LOAD OUT SAME		11 ³⁰	3/4
HOLD TRAIL PIPE	11 ³⁰	12 ⁰⁰	1/2
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

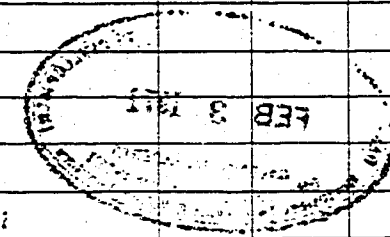
DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION Horn River M-34 AREA MARTIN HILL DATE JAN 22 1971

Tour — midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	A. BAYANT 12	7	7 1/8	X55A	1/2 1/3	28899								3274.17
Derrick	G. OLSON 12													579.37
Floor	E. HARSTAR 12													
Floor														
Floor														
Motor	R. MAREK 12													3.85
Mechanic														3740
Extra														3894.00
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.														
Specify actual hours worked														
Driller														
Derrick														
Floor														
Floor														
Floor														
Motor														
Mechanic	B. CROSS 8													
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight														
Specify actual hours worked														
Driller	L. SANDER 12													
Derrick	K. JOHNSON 12													
Floor														
Floor														
Floor														
Motor	D. LACHANCE 12													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Start	Time	Interval
MAKE 20 STAND DUMMY TRIP	12:00		
HOLE TIGHT. PUT ON KELLY COLLARS			
OUT OF TIGHT SPOT		1:15	1 3/4
CIRC + CONDITION MUD TO LOG	1:45	2:15	1 1/2
Dummy TRIP	3:15	4:45	1 1/2
CIRC HOLE TO LOG	4:45	6:45	2
D/T TRIP TO LOG	6:45	8:00	1 1/4
Company Time			
Cont'r Time			
P/T TRIP TO LOG	8:00	8:30	1/2
CIRC + CONDITION MUD TO LOG	8:30	10:45	2 1/4
HOLE TO LOG	10:45	1:00	2 1/4
RIG TO LOG	1:00	1:30	1/2
LOGGING I.G.S	1:30	3:30	2
B.H.C. S.G.R + CALIPER	3:30	4:00	1/2
Company Time			
Cont'r Time			
B.H.C. S.G.R + CALIPER	4:00	7:30	3 1/2
2" + 5" T.D. TO SURFACE CSG	7:30	11:15	4 1/4
S.R.E	11:15	12:00	1/4
RIG OUT LOGGERS			
Company Time			
Cont'r Time			



Totco Ring on Bit No. _____ D.P. Calibrated Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION

HORN RIVER M-34

AREA MARTIN HILLS DATE JAN 21 1971

Tour — Midnight - 8 a.m.
Specify actual hours worked Hrs.

Driller A. BRYANT 12

Derrick A. OLSON 12

Floor E. HARSTAD 12

Floor

Floor

Motor D. LACHANCE 12

Mechanic

Extra

Injuries: nil

Fires: nil

Fires: nil

Fires: nil

Tour — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

Tour — 4 p.m. to Midnight
Specify actual hours worked Hrs.

Driller L. SANDER 12

Derrick K. JOHNSON 12

Floor

Floor

Floor

Floor

Motor D. LACHANCE 12

Mechanic

Extra B. CROSS 8

Injuries:

Fires:

Fires:

Fires:

From		Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
No.		Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
3830		64	3894	5	100	20	6 1/4	27 1/8	44				3274.17
Gals.		Bbls.		Tons		Singles							

From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands											
										No.		O.D.		I.D.		Wgt.		Gals.		Bbbs.		Tons									
3894		3894		T.D.				20		6 1/4		2 7/8		44								3274.17									
																						Singles									
																						D. Collars									
BITS		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION		579.39					
		7		7 7/8		XSSR		2 1/3 1/2		28899																Other Ft.					
																										C.B. Ft.					
		MUD		8 a.m.		10 a.m.		12 Noon		2 p.m.		Additives				At Surveys Degree		MOTOR HOURS		Next Oil Change						Subs. Ft.					
		WEIGHT														3894		3/4		1		32									
		VISCOSITY																		2		32									
		GEL																		3		32									
																				4		32									
																				5		52									
		PUMPS		No. 1		Pres- sure																				Ft. Up On Kelly 385					
				Model		S.P.M.																				TOTAL 3894.0					
						Liner Size						Size		TRIPS		No. Lines		TON MILES		TOTAL MILES		Slip		Feet or		Cut		Feet Left on Spool		Next Slip	
				No. 2		Pres- sure						1"		1/2		8															
				Model		S.P.M.						General																			
						Liner Size																									
				W.L.		F.C.		pH.																							

From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands							
										No.		O.D.		I.D.		Wgt.				Gals.		Bbls.		Tons		3274.11	
																										Singles	

REMARKS	Start	Stop	Interval
DRILL	12:00	5:00	5
CIRC & SURVEY	5:00	5:30	1/2
TRIP FOR NEW BIT	5:30		
3 STANDS O.K. - PUT ON KELLY & CIRC OUT OF TIGHT SPOT - PULL 10 TIGHT STANDS TRIP OUT.	7:30	8:00	1/2
FINISH TRIP OUT	8:00	10:00	2
CHANGE BITS & RUN IN	10:00		
DRILL COLLARS	11:30		1 1/2
THREAD NEW DRG LINE	1:00		
CHECK ROTARY SPROCKETS	2:00		2 1/2
TRIP IN SLOW.	2:00	4:00	2
Change of plans Received orders from B.A. to stop drilling and condition hole to log.			
THAW MUD ROLL	4:00	5:00	1
CLEAN 150' TO BOTTOM	5:00		
TIGHT HOLE NO FILL	6:30		1 1/2
CIRC - CONDITION MUD	11:30		
HOLE TO LOG	11:30		5
MAKE DUMMY TRIP-2	11:30		
STANDS TIGHT	12:00		1/2

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER 2234 AREA HORN RIVER DATE JAN 16 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		2906	79	2985	7 1/4	80	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	L. BRYENDE	8											
Derrick	W. BARCLAY	8											
Floor	L. CESAR	12											
Fluor													
Floor													
Motor	L. MEDINGER	8											
Mechanic													
Extra													
Injuries:	NIL												
Fires:	NIL												

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked		2995	80	3065	5 1/4	80	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	A. BRYANT	8											
Derrick	A. OLSON	8											
Floor	E. HARSTAD	8											
Fluor													
Floor													
Motor	R. MAREK	12											
Mechanic													
Extra													
Injuries:													
Fires:													

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	J. SANDER	8											
Derrick	M. JOHNSON	8											
Floor													
Floor													
Floor													
Motor	D. LACHARKE	8											
Mechanic													
Extra													
Injuries:	NIL												
Fires:	NIL												

REMARKS	Time		
	Start	Stop	Interval
RICE SERVICE	1200	1215	1/4
DRILLING	1215	415	4
REPAIR WIRELINE ON SHAKER (CORD)	415	445	1/2
DRILLING	445	800	3 1/4
DRILL	800	945	1 1/4
RIG SER BOP & RISERS O.K.	945	1000	1/4
DRILL	1000	130	3 1/2
CIRC PROPR TO SURVEY	130	200	1/2
TRIP OUT - 5 STANDS GOOD	200		
6-7-8 - 1/2 OF 9 V/TIGHT	400	2	
TRIP OUT	400	600	2
CLOSE BLIND RAMPS + SERVICE	600		
RIG	630	730	1 1/2
TRIP IN D.C.S	630	730	1
SLIP 33' DRILL LINE +	730		
REPAIR VALVE	800	1/2	
TRIP IN D.P. BREAK CIRC	800		
+ BEAM 360' TO B	1200	4	
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER 2734 AREA DATE JAN 15 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	L. BRYEIDE	279					20	6 1/4	2 1/8	44				
Derrick	W. BARCLAY													
Floor	K. JOHNSON													
Floor														
Floor														
Motor	L. MEDINGER													
Mechanic														
Extra														
Injuries:	NIL													
Fires:														

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	A. BRYANT	2790	47	2837	3 1/4	76	20	6 1/4	2 1/8	44				
Derrick	A. OLSON													
Floor	F. HARSTAD													
Floor														
Motor	R. MAREK													
Mechanic														
Extra														
Injuries:														
Fires:														

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	L. SANDER	2837					20	6 1/4	2 1/8	44				
Derrick	K. JOHNSON													
Floor														
Floor														
Motor	D. LACHANCE													
Mechanic														
Extra														
Injuries:	NIL													
Fires:														

REMARKS	Time		
	Start	Stop	Interval
RIG SERVICE	1200	1215	1/4
STEAM OUT KELLY	1215	1245	1/2
CIRL MIX MUD - 1/2	1245	145	1
CLEAN OUT FILL 1/2	145		
SINGLES OFF BOTTOM		215	1/2
WORK STUCK PIPE FREE	215	315	1
CIRL & WORK PIPE 1	315	400	3/4
TRY TO CLEAN OUT FILL	400		
DRILL & RE DRILL		600	2
WORK OUT OF TIGHT HOLE	600	630	1/2
CLEANING FILL	630	800	1 1/2
Company Time			
Cont'r Time			
CLEAN 300 FT TO BOT.	800	1245	4 3/4
DRILL	1245	400	3 1/4
Company Time			
Cont'r Time			
DRILL	400	600	2
SERVICE RIG	600	615	1/4
DRILL	615	815	2
CHECK PUMP	815	845	1/2
DRILL	845	1015	1 1/2
CHECK UP LUGS & CLEAN	1015		
SWITCH		1030	1/2
DRILL	1030	1200	1 1/2
Company Time			
Cont'r Time			

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs. Toolpusher

Total Company Time Hrs. Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER M-34 AREA 111111 DATE June 18 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	L. BRVIEDE	2190	1.5	2.0		60								
Derrick	W. BARCLAY													
Floor	KEN JOHNSON													
Floor														
Floor														
Motor	L. MEDINGER													
Mechanic														
Extra														
Injuries:	NIL													
Fires:														

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	A. BRVANT													
Derrick	A. GISON													
Floor	F. HARSTAD													
Floor														
Motor	R. MAREK													
Mechanic														
Extra														
Injuries:														
Fires:														

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	J. SANDER	2190	1.5	2.0		60								
Derrick	J. CESAR													
Floor														
Floor														
Floor	J. ROSE													
Motor	D. LACHARRE													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS		Start	Stop	Interval
Rig Service - B.O.P. ✓		1200	1215	1/4
TRIP IN WITH FISHING TOOLS		1215	315	3
BRR CIRC - CLEAN TO TOP		315		
OF FISH. HARD-FILL			400	3/4
CIRCULATE OVER FISH		400	415	1/4
SCREW INTO FISH		415	600	13/4
WORK PIPE - Bump		600		
PIPE DOWN - CHECK				
FOR MOVEMENT			800	2
Company Time				
Cont'r Time				
WORK PIPE DOWN 10 1/2 ft		800	1130	3 1/2
WORK PIPE UP - Coming		1130		
FREE -			100	1 1/2
WORK UP THROUGH		100		
TIGHT HOLE - LAY				
DOWN 11 SINGLES &				
TRIP OUT - VERY WET			400	3
& TIGHT				
Company Time				
Cont'r Time				
TRIP OUT - BREAK DOWN		400		
TAPS & REPAIRS SAME DAY				
DOWN SAME			515	1 1/4
SERVICE BIG		515	530	1/4
HOLD D.C.S. + LAY DOWN		530		
2 D.C.S. - UNPLUG SAME			715	1 3/4
TRIP IN WITH 44		715		
TRIP D.C.S. + D.C.S. SAME				
CHLIPER D.C. + SABS SAME			1200	4 3/4
Company Time				
Cont'r Time				

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher *H. H. H.*
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER m34 AREA HORN RIVER DATE JAN. 12, 1970

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller L BRYEIDE	8	2790					20	6 1/4	2 3/4	44				37
Derrick W BARCLAY	8													579.49
Floor K JOHNSON	8													Other Ft.
Floor														C.B. Ft.
Floor														Subs. Ft.
Motor L MERINGER	8													3.50
Mechanic														Ft. Up On Kelly
Extra														TOTAL
Injuries: NIL														
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller A. BRYANT	8	2790					20	6 1/4	2 3/4	44				37
Derrick A OLSON	8													579.49
Floor F HARRIS	8													Other Ft.
Floor														C.B. Ft.
Floor														Subs. Ft.
Motor B. MAREK	8													3.50
Mechanic														Ft. Up On Kelly
Extra														TOTAL
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller L. S. HENDER	8	2790					20	6 1/4	2 3/4	44				37
Derrick L. S. HENDER	8													579.49
Floor														Other Ft.
Floor														C.B. Ft.
Floor														Subs. Ft.
Motor D. LACHANCE	8													3.50
Mechanic														Ft. Up On Kelly
Extra														TOTAL
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
WAIT FOR WASH OVER PIPE	1200		
Company Time			
Cont'r Time			
RIG UP FREE POINT	800		
TRUCK - HOMCO	930	1 1/2	
FOUND FREE POINT 2450	930	1200	2 1/2
RIGGED STRINGS SHOT AND	1200		
BOCKED OFF - TIGHT	130	1 1/2	
PULL OUT 1 STAND AND 1	130		
SINGLE TIGHT	400	2 1/2	
Company Time			
Cont'r Time			
WORK PIPE + D.C. OFF	400		
BUTTER	900	5	
TRIP OUT WITH PLUG DCS	900		
LAY DOWN 1 COLLAR	1200	3	
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER m34 # AREA DATE JAN 11 1970

Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Driller	L. BRYEIDE	8			2790					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Derrick	W. HARCAY	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor	KEN J. HANSON	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Motor	L. MEDINGER	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Mechanic										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Extra										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Injuries:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Fires:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

Tour — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Driller	A. BRYANT	8			2790					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Derrick	A. OLSON	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor	E. HANSTAD	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Motor	A. MAREK	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Mechanic										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Extra										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Injuries:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Fires:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

Tour — 4 p.m. to Midnight		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Driller	L. SANDER	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Derrick	I. CESAR	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Floor										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Motor	A. BOSS	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Mechanic	D. JACHAR	8								No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Extra										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Injuries:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Fires:										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	

REMARKS		Start	Time	Interval
WORK STUCK PIPE		8:00		
TRY TO INCREASE				
VERY SMALL AMOUNT				
OF BITUMENS AT				
SHOWER - DIX TIND				
TRY TO FORCE HEAVY				
MUD INTO CIRCULA-				
TION		8:00		
Company Time				
Cont'r Time				
RIG SER		8:00	8:15	1/4
WORK STUCK PIPE + TRY TO		8:15		
FORCE HEAVY MUD INTO PIPE		11:00	2:34	
WORK STUCK PIPE - PUMP		11:00		
MUD WITH B.I.		4:00	5	
Company Time				
Cont'r Time				
STRING & LINES ON		4:00	12:00	8
TRAVELLING BLOCKS				
Company Time				
Cont'r Time				

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P. Test Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____

Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER m34 AREA HORN RIVER DATE JAN 10 1970

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	L. BRYFIDE	2558	145	2703	6 3/4	78	18	6 1/4	2 1/2	38				35
Derrick	W. BARCLAY	Singles 1												
Floor	K. JOHNSON	D. Collars 515.44												
		Other Ft.												
		C.B. Ft.												
		Subs. Ft. 3.50												
		Ft. Up On Kelly 1X												
		TOTAL 2703												
		Slip Feet Cut Feet Left on Spool Next Slip												
		General												
		W.L. F.C. pH.												

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	A. BRYANT	2703	27	2730	3	84	20	6 1/4	2 1/2	42				
Derrick	A. OLSON	Singles												
Floor	E. HARSTAD	D. Collars 571.49												
		Other Ft.												
		C.B. Ft.												
		Subs. Ft. 3.50												
		Ft. Up On Kelly												
		TOTAL												
		Slip Feet Cut Feet Left on Spool												
		General												
		W.L. F.C. pH.												

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	L. SANDER	2730	60	2790	4 3/4	82	20	6 1/4	2 1/2	44				3
Derrick	L. CESAR	Singles 1												
Floor	T. ROSS	D. Collars 571.49												
		Other Ft.												
		C.B. Ft.												
		Subs. Ft. 3.50												
		Ft. Up On Kelly 1X												
		TOTAL 2790												
		Slip Feet Cut Feet Left on Spool Next Slip												
		General												
		W.L. F.C. pH.												

REMARKS	Time		
	Start	Stop	Interval
RILE SERVICE	1200	1215	1/4
DRILL 7 1/2" HOLE	1215	415	4
SURVEY	415	445	1/2
DRILL	445	730	2 3/4
Blow Kelly Then AIRLINE	730	800	1/2
Company Time	Cont'r Time		
RIG SER	800	815	1/4
HOIST CHECK PIPE + BUMP RAMS	815		
PICK UP 2 DRILL COLLARS +			
RUN IN			
BREAK CIRC. CLEAN 60' TO	1200	1200	3 3/4
BOTTOM		100	1
Company Time	Cont'r Time		
RIG SERVICED	400	415	1/4
DRILL	415	900	4 3/4
MADE CONNECTION - HOLE	900		
SLOUGHED IN - TRY			
TO BRK CIRCULATION			
AND WORK STUCK PIPE			
WORKED PIPE TO OFF			
BOTTOM		1200	3.
Company Time	Cont'r Time		

Totco Ring on Bit No. _____ D.P. Caliper Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAY WORK RECORD

NOTE—Please show **FOOTAGE** made while "Control Drilling" as well as **HOURS**.

14-00000

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER 7334

AREA HORN RIVER DATE JAN 8 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	L. BRYEIDE	524	784	1312	6	58	18	6 1/4	2 1/2	38			12
Derrick	W. BARCLAY												1
Floor	K. JOHNSON												515.44
Floor													Other Ft.
Floor													C.B. Ft.
Floor													Subs. Ft.
Motor	L. MEDINGER												Ft. Up On Kelly
Mechanic													40.00
Extra													TOTAL
Injuries:	NIL												1312
Fires:	NIL												

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	A. BRYANT	1312	334	1646	6 1/4	62	18	6 1/4	2 1/2	38			18
Derrick	A. OLSON												1
Floor	E. HARSTAD												515.44
Floor													Other Ft.
Floor													C.B. Ft.
Floor													Subs. Ft.
Motor	R. MAREK												Ft. Up On Kelly
Mechanic													3.50
Extra													TOTAL
Injuries:													1646
Fires:													

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	I. SANDER	1646	154	1800	5	65	18	6 1/4	2 1/2	40			21
Derrick	L. OGSAER												1
Floor													515.44
Floor													Other Ft.
Floor													C.B. Ft.
Floor													Subs. Ft.
Motor	D. LACHANCE												Ft. Up On Kelly
Mechanic													30.00
Extra													TOTAL
Injuries:	NIL												1830
Fires:	NIL												250

REMARKS		Start	Time	Interval
RIG SERVICE		1200	1215	1/4
BEDRILL mouse HOLE		1215		
PICK UP D.C.S			130	1/4
DRILL 7 3/8 HOLE		130	245	1/4
SURVEY		245	300	1/4
DRILL		300	545	2 3/4
SURVEY		545	600	1/4
DRILL		600	800	2
Company Time				
Cont'r Time				
RIG SER & CHECK B.O.P.s.		800	815	1/4
DRILL		815	1000	1 3/4
SURVEY		1000	1030	1/2
DRILL		1030	1100	2 1/2
SURVEY		1100	1130	1/2
DRILL		1130	1155	1 3/4
SURVEY		1155	1245	1 1/2
DRILL		1245	1400	1/4
Company Time				
Cont'r Time				
RIG SERVICE		400	415	1/4
DRILL		415	500	3/4
RESTAINING GEOGRAPH LINE (B.O.P.s)		500	515	1/4
DRILL		515	800	2 3/4
SURVEY @ 1769		800	815	1/4
DRILL		815	945	1 1/2
SURVEY @ 1800		945	1000	1/4
BLOW KELLY		1000	1015	1/4
HOIST BIT #1 PICK UP KELLY		1015		
@ 1740 BEAM TITE SPOT				
BLOW SAME		1100	1115	1 3/4
Company Time				
Cont'r Time				

To/Co Ring on Bit No. D.P. Caliper Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs.

Total Company Time Hrs.

Toolpusher

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER M-34 AREA Lower Mainland DATE Jan 6 1971

Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	K. BRYLDE	8			434	90	525	4	40	14	6 1/2	2 1/2	30				6122
Derrick	W. BARCLAY	8			5A	12 1/4	OSC-3	CON	A.T.	20	180	109	4 1/2				2424
Floor																	40110
Floor	KEN JOHNSON	8															
Floor																	
Motor	L. MEYINGER	8															
Mechanic																	
Extra																	
Injuries:																	
Fires:																	
Tour — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	A. BRYANT	12			525				40	14	6 1/2	2 1/2	30				6122
Derrick	A. OLSON	12			5A	12 1/4	OSC-3	CON	A.T.	20	180	48	2 1/2				2424
Floor	E. HARSTAD	12															40110
Floor																	
Motor	R. MAREK	12															
Mechanic																	
Extra																	
Injuries:	STAYED OVER TO																
Fires:	CASINO & RIG TO																
	NIPPLE UP																
Tour — 4 p.m. to Midnight		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
					No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	L. SADDER	9															
Derrick	L. CESAR	9															
Floor																	
Floor																	
Motor	T. ROSS	9															
Mechanic	D. LACHANCE	12															
Extra																	
Injuries:																	
Fires:																	

REMARKS	Time		
	Start	Stop	Interval
RIG SER.	1700	1215	1/4
SURVEY	1215	1230	1/4
DALLIAGE	1230	200	1/2
TRIP FOR BIT (STAMP OUT)	200	300	1
DALL OUT ROCKS GRAVEL	300		
@ 320 REAM TO 468 + REAM	500		
PAUL	500	730	2 1/2
CIN COAL MUD	730	800	1/2
CIN CONDITION MUD SER	800	900	1
DUMMY TRIP STAMP OUT	900	1030	1 1/2
CIN - CONDITION HOLE PUMP	1030		
HEAVY BATCH MUD INTO HOLE	1130		
TRIP OUT TO RUN CASO	1130	1230	1
RIS TO & RUN CASINO	1230	100	1/2
RUN CASINO	100	400	3
Run 17 Jts new Canadian 1 1/2" 24 # J-55 - ST + C Range 2			
8 Run thread casing			
Run 1st & 2nd + 3rd + 4th + 5th + 6th + 7th + 8th + 9th + 10th + 11th + 12th + 13th + 14th + 15th + 16th + 17th + 18th + 19th + 20th + 21th + 22th + 23th + 24th + 25th + 26th + 27th + 28th + 29th + 30th + 31th + 32th + 33th + 34th + 35th + 36th + 37th + 38th + 39th + 40th + 41th + 42th + 43th + 44th + 45th + 46th + 47th + 48th + 49th + 50th + 51th + 52th + 53th + 54th + 55th + 56th + 57th + 58th + 59th + 60th + 61th + 62th + 63th + 64th + 65th + 66th + 67th + 68th + 69th + 70th + 71th + 72th + 73th + 74th + 75th + 76th + 77th + 78th + 79th + 80th + 81th + 82th + 83th + 84th + 85th + 86th + 87th + 88th + 89th + 90th + 91th + 92th + 93th + 94th + 95th + 96th + 97th + 98th + 99th + 100th + 101th + 102th + 103th + 104th + 105th + 106th + 107th + 108th + 109th + 110th + 111th + 112th + 113th + 114th + 115th + 116th + 117th + 118th + 119th + 120th + 121th + 122th + 123th + 124th + 125th + 126th + 127th + 128th + 129th + 130th + 131th + 132th + 133th + 134th + 135th + 136th + 137th + 138th + 139th + 140th + 141th + 142th + 143th + 144th + 145th + 146th + 147th + 148th + 149th + 150th + 151th + 152th + 153th + 154th + 155th + 156th + 157th + 158th + 159th + 160th + 161th + 162th + 163th + 164th + 165th + 166th + 167th + 168th + 169th + 170th + 171th + 172th + 173th + 174th + 175th + 176th + 177th + 178th + 179th + 180th + 181th + 182th + 183th + 184th + 185th + 186th + 187th + 188th + 189th + 190th + 191th + 192th + 193th + 194th + 195th + 196th + 197th + 198th + 199th + 200th + 201th + 202th + 203th + 204th + 205th + 206th + 207th + 208th + 209th + 210th + 211th + 212th + 213th + 214th + 215th + 216th + 217th + 218th + 219th + 220th + 221th + 222th + 223th + 224th + 225th + 226th + 227th + 228th + 229th + 230th + 231th + 232th + 233th + 234th + 235th + 236th + 237th + 238th + 239th + 240th + 241th + 242th + 243th + 244th + 245th + 246th + 247th + 248th + 249th + 250th + 251th + 252th + 253th + 254th + 255th + 256th + 257th + 258th + 259th + 260th + 261th + 262th + 263th + 264th + 265th + 266th + 267th + 268th + 269th + 270th + 271th + 272th + 273th + 274th + 275th + 276th + 277th + 278th + 279th + 280th + 281th + 282th + 283th + 284th + 285th + 286th + 287th + 288th + 289th + 290th + 291th + 292th + 293th + 294th + 295th + 296th + 297th + 298th + 299th + 300th + 301th + 302th + 303th + 304th + 305th + 306th + 307th + 308th + 309th + 310th + 311th + 312th + 313th + 314th + 315th + 316th + 317th + 318th + 319th + 320th + 321th + 322th + 323th + 324th + 325th + 326th + 327th + 328th + 329th + 330th + 331th + 332th + 333th + 334th + 335th + 336th + 337th + 338th + 339th + 340th + 341th + 342th + 343th + 344th + 345th + 346th + 347th + 348th + 349th + 350th + 351th + 352th + 353th + 354th + 355th + 356th + 357th + 358th + 359th + 360th + 361th + 362th + 363th + 364th + 365th + 366th + 367th + 368th + 369th + 370th + 371th + 372th + 373th + 374th + 375th + 376th + 377th + 378th + 379th + 380th + 381th + 382th + 383th + 384th + 385th + 386th + 387th + 388th + 389th + 390th + 391th + 392th + 393th + 394th + 395th + 396th + 397th + 398th + 399th + 400th + 401th + 402th + 403th + 404th + 405th + 406th + 407th + 408th + 409th + 410th + 411th + 412th + 413th + 414th + 415th + 416th + 417th + 418th + 419th + 420th + 421th + 422th + 423th + 424th + 425th + 426th + 427th + 428th + 429th + 430th + 431th + 432th + 433th + 434th + 435th + 436th + 437th + 438th + 439th + 440th + 441th + 442th + 443th + 444th + 445th + 446th + 447th + 448th + 449th + 450th + 451th + 452th + 453th + 454th + 455th + 456th + 457th + 458th + 459th + 460th + 461th + 462th + 463th + 464th + 465th + 466th + 467th + 468th + 469th + 470th + 471th + 472th + 473th + 474th + 475th + 476th + 477th + 478th + 479th + 480th + 481th + 482th + 483th + 484th + 485th + 486th + 487th + 488th + 489th + 490th + 491th + 492th + 493th + 494th + 495th + 496th + 497th + 498th + 499th + 500th + 501th + 502th + 503th + 504th + 505th + 506th + 507th + 508th + 509th + 510th + 511th + 512th + 513th + 514th + 515th + 516th + 517th + 518th + 519th + 520th + 521th + 522th + 523th + 524th + 525th + 526th + 527th + 528th + 529th + 530th + 531th + 532th + 533th + 534th + 535th + 536th + 537th + 538th + 539th + 540th + 541th + 542th + 543th + 544th + 545th + 546th + 547th + 548th + 549th + 550th + 551th + 552th + 553th + 554th + 555th + 556th + 557th + 558th + 559th + 560th + 561th + 562th + 563th + 564th + 565th + 566th + 567th + 568th + 569th + 570th + 571th + 572th + 573th + 574th + 575th + 576th + 577th + 578th + 579th + 580th + 581th + 582th + 583th + 584th + 585th + 586th + 587th + 588th + 589th + 590th + 591th + 592th + 593th + 594th + 595th + 596th + 597th + 598th + 599th + 600th + 601th + 602th + 603th + 604th + 605th + 606th + 607th + 608th + 609th + 610th + 611th + 612th + 613th + 614th + 615th + 616th + 617th + 618th + 619th + 620th + 621th + 622th + 623th + 624th + 625th + 626th + 627th + 628th + 629th + 630th + 631th + 632th + 633th + 634th + 635th + 636th + 637th + 638th + 639th + 640th + 641th + 642th + 643th + 644th + 645th + 646th + 647th + 648th + 649th + 650th + 651th + 652th + 653th + 654th + 655th + 656th + 657th + 658th + 659th + 660th + 661th + 662th + 663th + 664th + 665th + 666th + 667th + 668th + 669th + 670th + 671th + 672th + 673th + 674th + 675th + 676th + 677th + 678th + 679th + 680th + 681th + 682th + 683th + 684th + 685th + 686th + 687th + 688th + 689th + 690th + 691th + 692th + 693th + 694th + 695th + 696th + 697th + 698th + 699th + 700th + 701th + 702th + 703th + 704th + 705th + 706th + 707th + 708th + 709th + 710th + 711th + 712th + 713th + 714th + 715th + 716th + 717th + 718th + 719th + 720th + 721th + 722th + 723th + 724th + 725th + 726th + 727th + 728th + 729th + 730th + 731th + 732th + 733th + 734th + 735th + 736th + 737th + 738th + 739th + 740th + 741th + 742th + 743th + 744th + 745th + 746th + 747th + 748th + 749th + 750th + 751th + 752th + 753th + 754th + 755th + 756th + 757th + 758th + 759th + 760th + 761th + 762th + 763th + 764th + 765th + 766th + 767th + 768th + 769th + 770th + 771th + 772th + 773th + 774th + 775th + 776th + 777th + 778th + 779th + 780th + 781th + 782th + 783th + 784th + 785th + 786th + 787th + 788th + 789th + 790th + 791th + 792th + 793th + 794th + 795th + 796th + 797th + 798th + 799th + 800th + 801th + 802th + 803th + 804th + 805th + 806th + 807th + 808th + 809th + 810th + 811th + 812th + 813th + 814th + 815th + 816th + 817th + 818th + 819th + 820th + 821th + 822th + 823th + 824th + 825th + 826th + 827th + 828th + 829th + 830th + 831th + 832th + 833th + 834th + 835th + 836th + 837th + 838th + 839th + 840th + 841th + 842th + 843th + 844th + 845th + 846th + 847th + 848th + 849th + 850th + 851th + 852th + 853th + 854th + 855th + 856th + 857th + 858th + 859th + 860th + 861th + 862th + 863th + 864th + 865th + 866th + 867th + 868th + 869th + 870th + 871th + 872th + 873th + 874th + 875th + 876th + 877th + 878th + 879th + 880th + 881th + 882th + 883th + 884th + 885th + 886th + 887th + 888th + 889th + 890th + 891th + 892th + 893th + 894th + 895th + 896th + 897th + 898th + 899th + 900th + 901th + 902th + 903th + 904th + 905th + 906th + 907th + 908th + 909th + 910th + 911th + 912th + 913th + 914th + 915th + 916th + 917th + 918th + 919th + 920th + 921th + 922th + 923th + 924th + 925th + 926th + 927th + 928th + 929th + 930th + 931th + 932th + 933th + 934th + 935th + 936th + 937th + 938th + 939th + 940th + 941th + 942th + 943th + 944th + 945th + 946th + 947th + 948th + 949th + 950th + 951th + 952th + 953th + 954th + 955th + 956th + 957th + 958th + 959th + 960th + 961th + 962th + 963th + 964th + 965th + 966th + 967th + 968th + 969th + 970th + 971th + 972th + 973th + 974th + 975th + 976th + 977th + 978th + 979th + 980th + 981th + 982th + 983th + 984th + 985th + 986th + 987th + 988th + 989th + 990th + 991th + 992th + 993th + 994th + 995th + 996th + 997th + 998th + 999th + 1000th + 1001th + 1002th + 1003th + 1004th + 1005th + 1006th + 1007th + 1008th + 1009th + 1010th + 1011th + 1012th + 1013th + 1014th + 1015th + 1016th + 1017th + 1018th + 1019th + 1020th + 1021th + 1022th + 1023th + 1024th + 1025th + 1026th + 1027th + 1028th + 1029th + 1030th + 1031th + 1032th + 1033th + 1034th + 1035th + 1036th + 1037th + 1038th + 1039th + 1040th + 1041th + 1042th + 1043th + 1044th + 1045th + 1046th + 1047th + 1048th + 1049th + 1050th + 1051th + 1052th + 1053th + 1054th + 1055th + 1056th + 1057th + 1058th + 1059th + 1060th + 1061th + 1062th + 1063th + 1064th + 1065th + 1066th + 1067th + 1068th + 1069th + 1070th + 1071th + 1072th + 1073th + 1074th + 1075th + 1076th + 1077th + 1078th + 1079th + 1080th + 1081th + 1082th + 1083th + 1084th + 1085th + 1086th + 1087th + 1088th + 1089th + 1090th + 1091th + 1092th + 1093th + 1094th + 1095th + 1096th + 1097th + 1098th + 1099th + 1100th + 1101th + 1102th + 1103th + 1104th + 1105th + 1106th + 1107th + 1108th + 1109th + 1110th + 1111th + 1112th + 1113th + 1114th + 1115th + 1116th + 1117th + 1118th + 1119th + 1120th + 1121th + 1122th + 1123th + 1124th + 1125th + 1126th + 1127th + 1128th + 1129th + 1130th + 1131th + 1132th + 1133th + 1134th + 1135th + 1136th + 1137th + 1138th + 1139th + 1140th + 1141th + 1142th + 1143th + 1144th + 1145th + 1146th + 1147th + 1148th + 1149th + 1150th + 1151th + 1152th + 1153th + 1154th + 1155th + 1156th + 1157th + 1158th + 1159th + 1160th + 1161th + 1162th + 1163th + 1164th + 1165th + 1166th + 1167th + 1168th + 1169th + 1170th + 1171th + 1172th + 1173th + 1174th + 1175th + 1176th + 1177th + 1178th + 1179th + 1180th + 1181th + 1182th + 1183th + 1184th + 1185th + 1186th + 1187th + 1188th + 1189th + 1190th + 1191th + 1192th + 1193th + 1194th + 1195th + 1196th + 1197th + 1198th + 1199th + 12			

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER M 34 AREA DATE JAN 5 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>L. BRYEIDE</u>	<u>8</u>	<u>279</u>	<u>89</u>	<u>368</u>	<u>32</u>	<u>12</u>	<u>6 1/4</u>	<u>2 1/8</u>	<u>26</u>			
Derrick	<u>W. BARCLAY</u>	<u>8</u>											
Floor	<u>8</u>												
Floor	<u>KEH JOHNSON</u>												
Floor													
Motor	<u>L. MEDINGER</u>	<u>8</u>											
Extra													
Injuries:	<u>NIL</u>												
Fires:													

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>A. BRYANT</u>	<u>8</u>	<u>368</u>	<u>26</u>	<u>395</u>	<u>1</u>	<u>34</u>	<u>13</u>	<u>6 1/4</u>	<u>2 1/4</u>			
Derrick	<u>A. OLSON</u>	<u>8</u>											
Floor	<u>E. HARDESTAD</u>	<u>8</u>											
Floor	<u>B. CROSS</u>	<u>8</u>											
Motor	<u>R. MAREK</u>	<u>8</u>											
Mechanic													
Extra													
Injuries:													
Fires:													

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>J. SANDER</u>	<u>8</u>	<u>395</u>	<u>40</u>	<u>435</u>	<u>1 1/4</u>	<u>38</u>	<u>14</u>	<u>6 1/4</u>	<u>2 1/8</u>			
Derrick	<u>L. CESAR</u>	<u>8</u>											
Floor													
Floor	<u>T. ROSS</u>	<u>8</u>											
Motor	<u>D. LACHANCE</u>	<u>8</u>											
Mechanic													
Extra													
Injuries:													
Fires:													

REMARKS	Time		
	Start	Stop	Interval
RIG SERVICE	1200	1215	1/4
REAM TO BTM.	1215	1245	1/2
DRILL 7/8 HOLE	1245	1300	1/4
SURVEY @ 279	1300	1315	1/4
DRILL (ROCKS)	1315	1352	2
SURVEY	1352	1400	1/4
TRIP FOR 12 1/4 BIT	1400		
LAY DOWN D.C.		1430	1
REAM	1430	800	3 1/2
@ 368 w/ 12 1/4 BIT.			
8.A.M.			
Company Time			
Cont'r Time			
RIG SERVICE	800	815	1/4
WORK ON PUMP	815	830	1/4
DRILL 12 1/4 HOLE	830	930	1
LOSS CIR. MISC MUD +	930		
SAWDUST TO GET MUD RETURN		230	5
CONDITION MUD TO DRILL	230	400	1 1/2
LOSS 250 BBL OF MUD TO FORMATION			
Company Time			
Cont'r Time			
BUILD VOLUME MIX MUD +	400		
SAWDUST TO GET CIRCULATION		615	2 1/4
SERVICE RIG	615	630	1/4
REAM TO BOTTOM DRILL ON	630		
GRAVEL + BOULDERS TO BTM		900	2 1/2
WORK ON PUMP - CHANGE HEAD	900		
+ 3 VALVES IN PUMP		1015	1 1/4
DRILL	1015	1200	1 3/4
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results M

Total Contractor Time _____ Hrs. Toolpusher [Signature]
 Total Company Time _____ Hrs. Approved by [Signature]

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9 LOCATION HORN RIVER M34 AREA DATE JAN 4 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	L. BRYEIDE 8	185	36	221	1/4	24	6 1/4	28	14					176.30
Derrick	BARCLAY 8													
Floor	J. JOHNSON 8													
Floor														
Floor														
Motor	L. MEDINGER 8													5.80
Mechanic														41.00
Extra														221.85
Injuries:	NIL													
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	A. BAYANT 8	221	27	248	1	28	7 6/8							203.20
Derrick	A. OLSON 8													
Floor	E. HARSTAD 8													
Floor														
Floor														
Motor	R. MAREK 8													5.80
Mechanic														39.75
Extra														248.75
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	L. SANDER 8	243	31	279	3/4	30	8 1/4	28	18					233.90
Derrick	L. CESAR 8													
Floor														
Floor														
Floor	I. ROSS 8													
Motor	D. LACHANCE 8													3.50
Mechanic														
Extra														
Injuries:	NIL													
Fires:	NIL													

REMARKS	Time		
	Start	Stop	Interval
WORK ON AIR COMPRESSOR + LIGHT PLANT	12:00	6:00	6
DRILL	6:00	6:30	1/2
SURVEY	6:30	6:45	1/4
DRILL	6:45	7:30	3/4
TIGHTEN GOOSE NECK. (WASHED OUT)	7:30	8:00	1/2
Company Time			
Cont'r Time			
SER RIG & REPAIR WASHED OUT GOOSE NECK ON SWIVEL	8:00		
SURVEY @ 221	10:30	10:45	1 1/4
DRILL	10:45	11:45	1
WORK TIGHT HOLE	11:45	1:00	1 1/4
HOIST FOR BIT & RUN IN 7/8 TO DRILL PILOT HOLE	1:00		
CLEAN 30' TO BOTTOM	2:00	2:00	1
HOLE GRAVING WITH GRAVEL	4:00		2
DRILL ON GRAVEL & ROCKS REAM & RE REAM.			
Company Time			
Cont'r Time			
DRILLING ON ROCKS & BOULDERS & BAND - Could NOT MAKE CONNECTION - TIGHT.	4:00		
DRILL	8:30	8:50	4 1/2
SERVICE RIG	8:50	9:15	3/4
REAM + REMEAN ON ROCKS + BOULDERS - COULD NOT MAKE CONNECTION	9:15	9:45	1/4
	9:45		
	12:00		2 1/2
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 9

LOCATION

Horn River Gulf of Mexico

AREA HORN RIVER

DATE JAN 3

19 71

REMARKS

Tour — Midnight - 8 a.m.

Specify actual hours worked

Hrs.

From

Footage

To

Hrs. on Bottom

Wt. Drill String (1000 lbs.)

DRILL COLLARS

FUEL

WATER

COAL

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Up On Kelly

TOTAL

Start

Stop

Interval

Driller L. BRYEIDE

Derrick W. BARCLAY

Floor KEN JOHNSON

Floor

Floor

Motor L. MIDINGER

Mechanic

Extra

Injuries: NIL

Fires: NIL

0

417

47

1 1/2

1

64282

Gals.

Bbls.

Tons

No.

O.D.

I.D.

Wgt.

No.

O.D.

I.D.

Wgt.

No.

O.D.

I.D.

Wgt.

No.

Size

Type

Size Jets

Serial No.

Weight

R.P.M.

Ft. Drilled

Hrs.

Feet Reamed

Hrs.

CONDITION

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Up On Kelly

TOTAL

Start

Stop

Interval

1

12 1/4

X3

D.T.

ALL

180

47

1 1/2

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

30.80

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

PUMPS

No. 1

Pres- sure

Model

S.P.M.

Liner Size

No. 2

Pres- sure

Model

S.P.M.

Liner Size

General

W.L.

F.C.

pH.

MUD

12 Mn.

2 a.m.

4 a.m.

6 a.m.

Additives

At Surveys Degree

MOTOR HOURS

Next Oil Change

WEIGHT

VISCOSITY

GEL

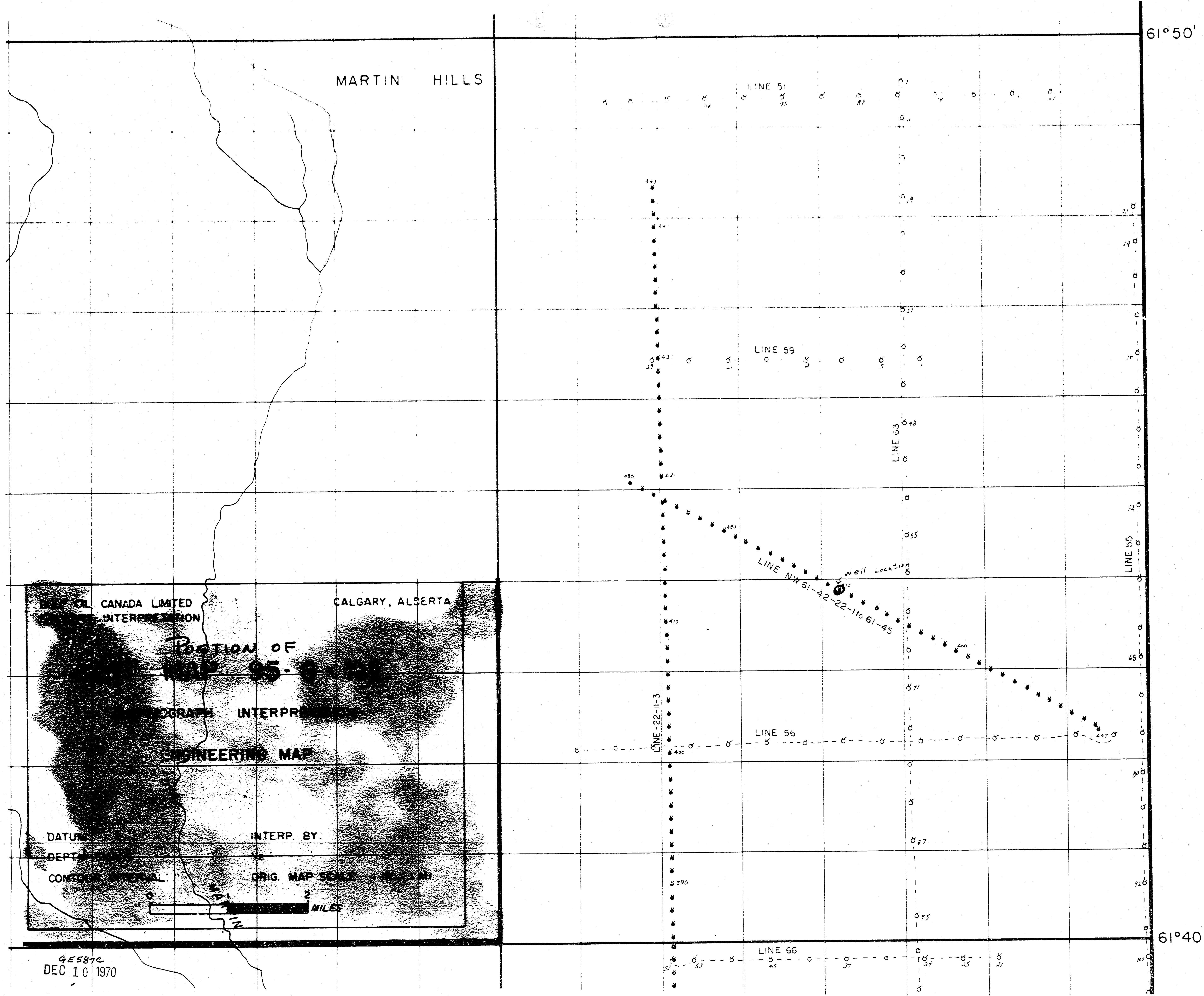
No. 1

Pres- sure

Model

S.P.M.

Liner Size



(MATCH 95-H-N.W)