

Drilling Authority No. 1291
Date issued 28 January 1971

WELL NAME ROCK E. Girdel et al. Santa Jo's
FIELD Area:
LOCATION: Unit J Section 05 Grid 62-30-122-15
Latitude 62-24-37 Longitude 122-15-56
U.W.E.R. 62 J1025 --- 122.26555
U.W.S. 300J056230122150

Rig Release Date.....
Status.....
Information Release Date.....

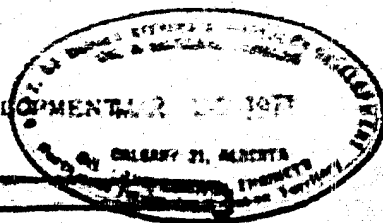
CHANGE OF NAME:

DATE RECEIVED	INDEX
28-2-71	Application for a Drilling Authority. Well Completion Data. Well History Report.
3-3-71	Application to Amend a Drilling Authority.
	Application to change a Well Name.
24/3/71	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. 491

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to Abandon a Well or

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 R CANDEL ET AL EBBUTT J-05
Location: Unit J Section Grid 62° 30' N. Lat. 122° 15' W. L.
Latitude 62° 24' 37" Longitude 122° 15' 56"
From Established Reference Marker
Universal Well Location Reference Lat. 62.41028° N., Long. 122.26555° W.
Permit No. 4405 Lease No.

CANADA-CITIES SERVICE & STANDARD OIL CO. OF B.C.

(Permittee, Licensee, Lessee)

Date of commencement of proposed program

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil
Gas at Nil
Water at 2690 to 2800 (DST #1)
Total Depth 4163 D and A Date of last operations Rig released March 19, 1971
Present condition of well 7:45 P.M.

CASING RECORD

Casing Size O.D. inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 8-5/8"	24	505	505K.B.	316 sks cement plus 2% CaCl ₂	Nil
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4163 to 4063	Cambrian	25 plus 4% Gel	
2	2850 to 2640	Manitoe Bear Rock	90 sks + 2% CaCl ₂	Top at 2620
3	555 to surface		140 sks + 4% Gel	
Cut casing off three feet below ground with well marker.				Weld on plate and rod

The following logs have been run BHC Gamma Sonic Caliper, IES, SNP, FDC
Other operations proposed Nil

Operations to be carried out by Commonwealth Rig 12 Contractor Licence No. 931
Address Fort Simpson, N.W.T. Address
Responsible Agent in field Gordon Gillis

Dated at Calgary this 22nd Day of March 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. G. E. Blue
on the 18th March 1971.

Dated March 24, 19 71

G. E. Blue
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.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 491, concerning

Horn R Candel et al Ebbutt J-05 - 62°24'37" N. Lat., 122°15'56" W. Long.
(Name and Number of Well)

The following amendments are required:

Change B.O.P.'s to G.K. 10" 900 Series Hydril, Schaeffer Type B
10" 900 Series Double Gate Hydraulic Preventer

Change Rig to Commonwealth Drilling Western Ltd. Rig No. 12

Change Contractors Business Licence No. to 931.

Reasons for the amendments:

Change in contractor and rig.

Dated at Calgary, this 3rd day of March, 1971

Signed by

Title President

Company Horn River Resources Ltd.

(For Resource Management Division use only)

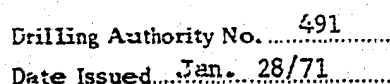
APPROVED

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

Date 3rd March 1971

Oil Conservation Engineer

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



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JUN 29 1971
Saskatoon, ALBERTA
CONSERVATION ENGINEER
Athabasca Territories & Yukon Territory

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

Well name and number Horn R Candel et al Ebbutt J-05

Permit No. ⁴⁴⁰⁵ Lease No.

Canada Cities Service

Standard Oil of B.C. Exploratory Licence No. 1650 and 1631

(Permittee, Licensee, Lessee)

Horn River Resources Ltd. Exploratory Licence No. 1785

(Operator)

Location: Unit J Section 05 Grid 62°30'N Lat., 122°15' W. Long.
Latitude 62°34'37" N. Longitude 122°15'56" W.
Unique well identifier 300 J 056230122150
Universal Well Location Reference. Lat. 62.41028 N., Long. 122.26555 W.

CASING RECORD

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depths	Sub-Sea	From	To	Rec.	From	To	Rec.
Lower Cretaceous	50	4 1903	None taken					
Imperial	880	4 1073						
Canol	2085	- 132						
Hume	2168	- 215						
Manetoe	2670	- 717						
Bear Rock	2908	- 955						
Ronning	3638	- 1685	LOG RECORD.					
Cambrian	4145	- 2192	Run No.	Type of Log			From	To

[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
Mar.19/71	4163	4063	25 sx / 4% gel				Nil				Nil
Mar.19/71	2850	2640	90 sx / 3% CaCl ₂ - felt at 2620 ft.								
Mar.19/71	555	Surface	225 sx / 4% Gel. Welded on steel plate and marker on surface.								

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.	L.F.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
1	Mar.18/71	Manetoe	2690	2800	60	30	60	594	594	185	576	1272	1272	Good blow, decreasing to end of test - recovered 300 ft. muddy salt water and 760 ft. brackish salt water (67,000 ppm)

ANALYSIS						PRESENT STATUS OF WELL				
Lab. No.	Sample	From	To	Source	Remarks	Oil		(Interval.)	Company	
					None				Signed by	<i>Thurley</i>
						Gas		(Interval.)	Title	President
						Dry	X		Date	June 23, 1971
						Susp.				

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



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 **Horn & Candel et al Ebbett J-05**
 Location: Unit **J** Section **5** Ord **61°30' N. Lat., 122°15' W. Long.**
 Latitude **62°34'37"** Longitude **122°15'36"**
 Unique Well Identifier **3001056230122150**
 Universal Well Location Reference **Lat. 62°34'37" N. Long. 122°15'36" W.**
 Elevation: Ground **1942** **K.B. 1933 (est.)** feet above sea-level.
 Well is expected to produce from **Middle Devonian and/or Silurian** formation at a depth of about **4,500'** feet. Expected total final depth **See geological prognosis**
 Area assigned to well **(For Oil Conservation Engineer's use only)**

Permit No. **4405** Lease No. **59,310** Acreage **59,310**
 Permittee, licensee, or lessee **Canada-Cities Service & Standard Oil Company of British Columbia**
 Exploratory Licence No. **1650** **1631**
 Surface owned by Crown or **Crown**
 Petroleum and natural-gas rights owned by **Crown**
 (If changed submit name and address of owner and recipient.)

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	Scale of Cement
1. 8 5/8	24#	J-55	New	460	200
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment **Middle Devonian Carbonates**
GK 10" 900 Series Hybrid B.O.P.
10" 900 Series Mechanical

Well will be drilled with Rotary Rig No. **9** by **Kenting Oilwell Drilling**
 (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. **800**
 At well **Gordon Gillis** At registered office **F. L. Woolley**
 Address **Gen. Del., Ft. Simpson** Address **1020 Aquitaine Tower, 540 - 5th 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 **14** day of **January** 19 **71**
 Signed by **F. L. Woolley** Company **Horn River Resources Ltd.**
 Title **President** Operator's Licence No. **1785**
 (For Oil and Mineral Division use only)

APPROVED

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

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week, the latest reports

Dated **25th January** 19 **71** Please see over page

Oil Conservation Engineer

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

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. Any additional strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.


B.H.J. Thomas, Oil Conservation Engineer

GEOLOGICAL PROGNOSIS

Well Name: Horn R Candel et al EBBUTT J-05
Location: J-05-62-30-122-15
Elevation: Ground est. 1942' (shot point 205)
K.B. est. 1955'
Operator: Canadian Delhi Oil Ltd.

<u>Formation</u>	<u>Drilling Depth</u>	<u>Sub-Sea Depth</u>
L. Cretaceous	Near surface	
U. Devonian		
Imperial	1000?	+955
M. & L. Devonian		
Nahanni (Hume)	2405	-405
Bear Rock	2895	-940
Sil-Ord		
Ronning?	3815	-1860
Cambrian	4480	-2525
Total Depth	4500	-2545

- Note:
1. Anhydrite and possibly salt can be expected in the Bear Rock section.
 2. Total Depth will be determined by
 - (a) penetrate 20' into the Cambrian clastics
 - or (b) 4700' below Kelly Bushing, whichever first occurs.

Samples:

Two bags of washed samples will be taken at 10 foot interval, from surface to total depth.

Testing:

All tests at discretion of wellsite geologist.

Coring:

If water free hydrocarbons are recovered on a test, a core should be cut and further tests run if warranted.

Logging:

Dual Ind. Laterlog	2" T.D. to surface casing	These Logs Must Be Run <u>First</u>
	5" T.D. to surface casing	
BHC Sonic Gamma	2" T.D. to surface casing	
w/Caliper	5" T.D. to surface casing	
Formation Density	2" T.D. to surface casing	
	5" T.D. to surface casing	
Sidewall Neutron Porosity		
	2" T.D. to surface casing	
	5" T.D. to surface casing	

Canadian Delhi Oil Ltd.,
28th Floor, Calgary Place No. 1,
330 - 5th Avenue S.W.,
CALGARY 1, Alberta.

Phone: 265-3430

K. E. Basaraba
D. M. Ericson
R. K. Terrell

Home Phone: 282-4698
" " 252-3277
" " 289-7652

OPERATION REEF
NORTHWEST TERRITORIES
CANADA

Geological and Engineering
REPORT

HORN R. CANDEL et al EBBUTT J-05

PREPARED FOR
HORN RIVER RESOURCES LTD.

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

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Section 1

GENERAL

SUMMARY OF WELL DATA

WELL: Horn R Candel et al Ebbutt J-05

NAME OF OPERATOR: Horn River Resources Ltd.
1020 Aquitaine Tower, 540 Fifth Avenue S.W., Calgary 1, Alberta

LEGAL DESCRIPTION: Unit J, Section 5, Grid 62° 30' N. 122° 15' W.

LOCATION: LATITUDE: 62° 24' 37" LONGITUDE: 122° 15' 56"

UNIVERSAL WELL LOCATION REFERENCE: Lat. 62. 41028° N. Long. 122. 26555° W

UNIQUE WELL IDENTIFIER: 300J050230122150

CO-ORDINATES: None

PERMIT OR LEASE: Permit No. 4405

PERMITTEE, LICENCEE, LESSEE: Canada Cities Service Petroleum Corp. and Standard Oil Company of British Columbia

DRILLING AUTHORITY: No. 491 DATE: January 14, 1971

CLASSIFICATION: New Field Wildcat

ELEVATION: GROUND: 1,942' K.B. 1,953' (est.)

DRILLING CONTRACTOR: Commonwealth Drilling Western Ltd. Rig No. 12 Rotary

WELLSITE GEOLOGIST: T.D.A. Haddow, Canadian Delhi Oil Ltd.

SURFACE CASING: 8-5/8" - 24 lb. - J-55 New Set @ 505' K.B. w/c 316 sax + 2% CaCl₂

HOLE SIZE: Surface Hole 12-1/4", 0' - 510' Main Hole 7-7/8", 510' - 4,163'

MUD SYSTEM: Gel Chemical

CORES: None Taken

FORMATION TESTS: DST No. 1: 2,690' - 2,800' - Manetoe

ABANDONMENT PLUGS: Plug No. 1: 4,163' - 4,063' - 25 sax + 4% Gel
Plug No. 2: 2,850' - 2,640' - 90 sax + 3% CaCl₂
Plug No. 3: 555' - surface - 140 sax + 4% Gel

LOST CIRCULATION: Surface Hole Only

LOGS: IES 4,164' - 504' FDL 4,164' - 504'
BHCSGRC 4,163' - 504' SNP 4,164' - 504'

WELL SPUDED: 8:00 p.m. March 2, 1971

FINISHED DRILLING: 8:00 a.m. March 17, 1971

RIG RELEASED: 7:45 p.m. March 19, 1971

TOTAL DEPTH: 4,163' K.B.

STATUS: Drilled and Abandoned

Section 2
GEOLOGICAL

WELL: Horn R Candel et al Ebbutt J-05

James A. Lewis Engineering Co. Ltd.

IntervalSample DescriptionGlacial Drift - Surface

20'- 50'	Sand, gravel and boulders, rounded and frosted medium to very coarse quartz and feldspar grains, boulder fragments.
	<u>L. Cretaceous. 50'</u>
50'- 60'	Shale, dark grey, very fissile, soft, micromicaceous.
60'- 80'	Shale, as above, thin streaks of very fine grained, silty, argillaceous, glauconitic sandstone.
80'- 100'	Sandstone, yellowish grey, friable, very fine to fine grained, argillaceous, silty, sideritic, glauconitic, tight, shaley streaks.
100'- 140'	Shale, dark grey - some reddish brown streaks, fissile, micromicaceous, streaks and interbeds of sandstone as above.
140'- 240'	Shale, medium dark grey, fissile, micromicaceous, silty and sandy streaks.
240'- 290'	Shale, medium to dark grey, fissile, micromicaceous
290'- 300'	Sandstone, light grey, very fine grained, silty, argillaceous, glauconitic, tight, shaley streaks.
300'- 310'	Cavings
310'- 330'	Shale, medium dark grey, silty and sandy, micromicaceous.
330'- 350'	Shale, medium dark grey, fissile, micromicaceous.
350'- 410'	Shale, medium to dark grey, fissile, micromicaceous.
410'- 620'	Shale, as above - some brown ironstone.
620'- 640'	Shale, medium to dark grey, fissile, micromicaceous some brown ironstone, trace of fossil fragments, slightly pyritic in part.
640'- 800'	Shale, as above.
800'- 880'	Shale, as above - somewhat more pyritic.

Imperial Shale. 880'

- 880'-1000' Shale, greenish grey, fissile, micromicaceous.
- 1000'-1070' Shale, as above - some scattered thin silty streaks, faintly dolomitic in part.
- 1070'-1090' Shale, as above - silty.
- 1090'-1120' Shale, greenish grey, fissile, micromicaceous, calcareous, silty streaks.
- 1120'-1270' Shale, greenish grey, fissile, micromicaceous, calcareous.
- 1270'-1300' Shale, greenish grey, fissile, micromicaceous, calcareous in part, dolomitic in part.
- 1300'-1320' Shale, as above - interbedded limestone - slightly greenish grey, very fine to fine crystalline, argillaceous, dense.
- 1320'-1410' Shale, greenish grey, fissile, micromicaceous dolomitic.
- 1410'-1420' Shale, as above - calcareous in part, trace of brown fine crystalline dense limestone.
- 1420'-1490' Shale, greenish grey, fissile, micromicaceous, slightly dolomitic.
- 1490'-1530' Shale, greenish grey, fissile, micromicaceous, calcareous, slightly pyritic in part.
- 1530'-1580' Shale, greenish grey, fissile, micromicaceous, slightly dolomitic.
- 1580'-1740' Shale, as above - calcareous in part.
- 1740'-1800' Shale, greenish grey, fissile, micromicaceous, slightly dolomitic.
- 1800'-2080' Shale, as above - dark greenish grey streaks. A few scattered thin beds of limestone and calcareous streaks.

Canol Shale. 2085'

- 2080'-2150' Shale, black, fissile - blocky in part, micromicaceous, bituminous, some scattered pyrite.
- 2150'-2160' Shale, black, fissile to blocky, micromicaceous, bituminous, pyritic, some fine fractures filled with calcite.

Nahanni (Hume). 2160'

- 2160'-2170' Limestone, grey to medium dark brownish grey, cryptocrystalline and microcrystalline to very fine crystalline, calcilutite, calcarenite in part, algal in part, bituminous, dense, white calcite as inclusions and infilling fine fractures.

- 2170'-2190' Limestone, medium dark brownish grey, microcrystalline to very fine crystalline, calcilutite, bituminous, dense, some inclusions of white calcite, a few scattered fossil fragments (crinoids), scattered brachiopods, scattered partings of black bituminous shale.
- 2190'-2230' Limestone, grey to medium dark brownish grey cryptocrystalline to microcrystalline, calcilutite, bituminous, dense, scattered crinoids and brachiopods, scattered fractures filled with white calcite and a trace of light bluish grey chert, bituminous.
- 2230'-2240' Limestone, as above - very fine to fine crystalline in part.
- 2240'-2250' Limestone, as above - coralline in part.
- 2250'-2270' Limestone, brownish grey, microcrystalline to very fine crystalline - some scattered fine to medium crystals, calcarenite, some streaky dolomitization, scattered irregular fractures filled with white calcite, trace of noneffective intercrystalline porosity, bituminous.
- 2270'-2290' Limestone, buff to brownish grey, cryptocrystalline to microcrystalline, calcilutite - coralline in part, dense, scattered fractures filled with calcite.
- 2290'-2300' Limestone, as above; limestone - brownish grey, microcrystalline to very fine crystalline, calcarenite, dolomitic in part, trace of noneffective intercrystalline porosity.
- 2300'-2320' Limestone, buff, microcrystalline to fine crystalline organic, bioclastic in part, slightly dolomitic in part, trace of streaky noneffective intercrystalline porosity, bituminous, some partings of black bituminous shale, scattered fine fractures filled with white calcite, stromatoporoids, brachiopods.
- 2320'-2330' Limestone, as above, some streaks and thin interbeds of dolomite - brownish grey, fine crystalline, calcitic slight intercrystalline porosity.
- 2330'-2340' Limestone, as above - slightly dolomitic, stromatoporoids, amphipora, some interbedded brownish grey dense calcilutite. Trace of silicious infilling.
- 2340'-2350' Limestone, brownish grey, microcrystalline to very fine crystalline, calcilutite, dense, bituminous.
- 2350'-2360' Limestone, brownish grey, microcrystalline to very fine crystalline - cryptocrystalline in part, organic and bioclastic, dense, some dolomitic streaks, bituminous.
- 2360'-2390' Limestone brownish grey, microcrystalline to very fine crystalline, calcilutite, bituminous, dense, some dolomitic streaks.

- 2390'-2410' Limestone, brownish grey, cryptocrystalline - microcrystalline to very fine crystalline in part, organic and bioclastic, slightly dolomitic, dense, bituminous, scattered fractures filled with calcite.
- 2410'-2420' Limestone, as above - somewhat more dolomitic - streaky slight intercrystalline porosity.
- 2420'-2430' Dolomite, brownish grey, very fine to fine crystalline, slightly calcitic, slightly intercrystalline porosity.
- 2430'-2450' Limestone, brownish grey, microcrystalline to very fine crystalline, organic and bioclastic, dolomitic in part, dense, bituminous.
- 2450'-2460' Limestone, as above - very dolomitic slight streaky intercrystalline porosity, trace of siliceous infilling.
- 2460'-2500' Limestone, brownish grey, microcrystalline to very fine crystalline, organic and bioclastic, - calcilutite in part, bituminous, dolomitic, tight.
- 2500'-2510' Limestone, slightly greenish grey, cryptocrystalline, calcilutite, dense.
- 2510'-2530' Limestone, grey to brownish grey, very fine to fine crystalline, dolomitic, tight, bituminous.
- 2530'-2620' Limestone, brownish grey, cryptocrystalline to very fine crystalline, calcilutite - calcarenite in part, bituminous, dolomitic in part, dense, some partings of black bituminous shale.
- 2620' - 2630' Dolomite, buff, cryptocrystalline to microcrystalline earthy, slight to poor intercrystalline porosity, no permeability.
- 2630'-2640' Dolomite, as above; dolomite, (trace) light grey, fine to medium crystalline.
Limestone, greenish to brownish grey, cryptocrystalline, dense, some streaks of greenish grey waxy shale.
Shale, greenish grey, blocky, waxy, finely disseminated pyrite.
- 2640'-2650' Shale, greenish grey, blocky, waxy, finely disseminated pyrite.
Limestone, greenish to brownish grey, cryptocrystalline, dense, streaks of waxy green shale.
Breccia, brownish grey, cryptocrystalline limestone breccia with a green waxy shale matrix.
- 2650'-2670' Shale, greenish grey, blocky waxy, finely disseminated pyrite.
Breccia, as above.
- 2670'-2680' Shale, as above.
Limestone, brownish grey, cryptocrystalline, dense, brecciated in part, pyritic in part.

Manetoe. 2680'

- 2680'-2690' Dolomite, mottled light brownish grey and white, medium to coarse crystalline, white - coarse - secondary dolomite crystals completely infilling old vugs and fractures, slight intercrystalline porosity.
- 2690'-2700' Dolomite, greyish brown, microcrystalline to very fine crystalline, dense, scattered fractures filled with white coarse secondary dolomite crystals.
- 2700'-2710' Dolomite, greyish brown as above and buff, cryptocrystalline, earthy, slight intercrystalline and scattered pinpoint porosity - low permeability, scattered fractures filled with secondary dolomite.
- 2710'-2720' Dolomite, greyish brown, microcrystalline to very fine crystalline, dense and medium dark brownish grey, very fine to fine crystalline, dense.
- 2720'-2770' Dolomite, brownish grey, very fine to fine crystalline, streaky slight intercrystalline porosity; dolomite, brownish grey, cryptocrystalline to microcrystalline, dense, fractures filled with secondary dolomite.
- 2770'-2780' Dolomite, buff, cryptocrystalline to microcrystalline - earthy, scattered salt casts, intercrystalline and pinpoint porosity - probably noneffective due to salt infilling.
- 2780'-2790' Dolomite, buff to brownish grey, cryptocrystalline to microcrystalline, slight streaky intercrystalline porosity - no permeability.
- 2790'-2800' Dolomite, buff to brownish grey, cryptocrystalline, dense.
- 2800'-2850' Dolomite, grey, very fine to fine crystalline, dense, scattered fractures filled with secondary dolomite.
- 2850'-2870' Dolomite, as above - some scattered streaky noneffective intercrystalline porosity.
- 2870'-2880' Dolomite, grey to brownish grey, microcrystalline to very fine crystalline, dense, some scattered salt casts.
- 2880'-2890' Dolomite, grey to brownish grey, microcrystalline to very fine crystalline dense, trace of breccia.
- 2890'-2900' Dolomite, buff, cryptocrystalline, dense.

Bear Rock Anhydrite. 2905'

- 2900'-2910' Dolomite, as above.
Anhydrite, brownish grey, cryptocrystalline.

2910'-2940'	Dolomite, brownish grey, microcrystalline, anhydrite, dense, Anhydrite, light grey, microcrystalline, dolomitic streaks.
2940'-3040'	Anhydrite, brownish grey, cryptocrystalline, streaks of dolomite. Dolomite, brownish grey, cryptocrystalline to microcrystalline, dense.
3040'-3270'	Anhydrite, brownish grey, cryptocrystalline, some interbedded dolomite - brownish to greenish grey cryptocrystalline some microcrystalline, dense.
3270'-3280'	Dolomite, buff microcrystalline, dense. Anhydrite, brownish grey, cryptocrystalline.
3280'-3290'	Dolomite, buff to very light brownish grey - some scattered dark spots and thin lines, microcrystalline, dense, some scattered fine fractures filled with anhydrite, some interbedded anhydrite.
3290'-3300'	Dolomite, buff to very light brownish grey and medium dark grey, microcrystalline, anhydritic, dense, some interbedded anhydrite,
3300'-3320'	Anhydrite, brownish grey cryptocrystalline.
3320'-3330'	Dolomite, brownish grey, microcrystalline, dense.
3330'-3340'	Dolomite, as above. Anhydrite, as above.
3340'-3350'	Anhydrite, as above, some interbedded dolomite, trace of brownish grey chert.
3350'-3360'	Dolomite, brownish grey, microcrystalline, dense.
3350'-3370'	Dolomite, brownish grey, microcrystalline, dense; trace of dolomite - brownish grey, very fine to fine crystalline, slightly calcitic, slight intercrystalline porosity.
3370'-3380'	Dolomite, brownish grey, microcrystalline, dense, some inter- bedded anhydrite.
3380'-3390'	Dolomite, medium dark and light brownish grey, cryptocrystalline, dense, interbedded anhydrite.
3390'-3400'	Dolomite, brownish grey, microcrystalline - some very fine to fine crystalline, dense for the most part - trace of noneffective intercrystalline porosity, some interbedded anhydrite.
3400'-3410'	Dolomite, brownish grey, microcrystalline to very fine crystalline dense, some partings of black bituminous shale.
3410'-3420'	Anhydrite, brownish grey and some greenish grey, cryptocrystalline, some interbedded dolomite - brownish grey, microcrystalline, dense.
3420'-3560'	Anhydrite, brownish grey, cryptocrystalline, some streaks, and

- thin interbeds of dolomite - brownish grey, cryptocrystalline to microcrystalline.
- 3560'-3570' Anhydrite, as above, some thin interbeds of dolomite - as above - very fine crystalline in part.
- 3570'-3580' Anhydrite, brownish grey, cryptocrystalline, some interbedded dolomite - brownish grey, cryptocrystalline to microcrystalline, dense.
- 3580'-3620' Anhydrite, as above.
Dolomite, brownish grey, microcrystalline, dense, scattered hairline fractures.
- 3620'-3630' Anhydrite, brownish grey, cryptocrystalline and white, - very fine crystalline.
Dolomite, brownish grey, microcrystalline, dense.
- Ronning. 3630'
- 3630'-3640' Dolomite, brownish grey, microcrystalline, noneffective slight small vuggy porosity; dolomite - greenish grey, microcrystalline, argillaceous, dense.
- 3640'-3680' Dolomite, slightly greenish grey, microcrystalline, to very fine crystalline, argillaceous, dense, some streaks of medium dark greenish grey shale, some scattered blebs of anhydrite. Pyritic in part.
- 3680'-3690' Dolomite, as above - some thin streaks with fine to medium rounded frosted quartz grains.
Chert, brownish grey.
Dolomite, brownish grey, very fine crystalline - dense.
- 3690'-3700' Dolomite, brownish grey, very fine crystalline, dense for the most part - some sucrosic streaks with noneffective intercrystalline porosity.
- 3700'-3730' Dolomite, brownish grey, very fine and some fine crystalline dense, some scattered blebs of anhydrite.
- 3730'-3740' Dolomite buff, very fine crystalline, anhydritic, dense.
- 3740'-3750' Dolomite, grey-slightly brownish, microcrystalline to very fine crystalline, dense, slightly anhydritic, finely disseminated pyrite.
- 3750'-3770' Dolomite, light grey - slightly brownish to greenish, very fine crystalline - sucrosic in part, streaky slight intercrystalline porosity, some partings of waxy green shale.
- 3770'-3780' Dolomite, brownish grey, very fine to fine crystalline - sucrosic in part, streaky slight intercrystalline porosity, some partings of black bituminous shale, some gypsum crystals, some quartz crystals.

- 3780'-3800' Dolomite, brownish grey, microcrystalline to very fine crystalline, dense.
- 3800'-3810' Dolomite, as above - some streaks of siliceous material.
- 3810'-3830' Dolomite, buff, very fine crystalline, streaky slight to poor intercrystalline porosity, trace of scattered small vugs, inclusions of gypsum crystals, pyritic in part, inclusions of siliceous material.
- 3830'-3840' Dolomite, as above, dolomite - brownish grey, microcrystalline, dense.
- 3840'-3860' Dolomite, buff to brownish grey, microcrystalline to very fine crystalline - sucrosic in part streaky slight intercrystalline porosity.
- 3860'-3880' Dolomite, brownish grey, microcrystalline to very fine crystalline, - sucrosic in part slight scattered intercrystalline porosity, scattered stylolites, some scattered fractures filled with secondary dolomite. Some partings of dark grey shale.
- 3880'-3890' Dolomite, grey - slightly brownish, microcrystalline to very fine crystalline, poor vuggy porosity, vugs lined with dolomite rhombs, gypsum crystals and some quartz crystals.
- 3890'-3910' Dolomite, brownish grey, very fine to fine crystalline - sucrosic in part, poor intercrystalline and drusy vuggy porosity, thin streaks of brownish grey chert.
- 3910'-3940' Dolomite, grey, slightly brownish to greenish, very fine crystalline, dense for the most part - a few scattered blind vugs. Some cherty streaks.
- 3940'-3950' Dolomite, as above - sucrosic in part.
- 3950'-3960' Dolomite, medium dark grey, very fine crystalline dense, some inclusions of gypsum, some partings of black bituminous shale, finely disseminated pyrite, slightly silty.
- 3960'-3970' Dolomite, grey, very fine crystalline - sucrosic in part slight to poor intercrystalline and vuggy porosity.
- 3970'-4010' Dolomite, medium dark grey, microcrystalline to very fine crystalline, dense for the most part - some scattered blind vugs, some inclusions of gypsum some scattered fractures filled with gypsum and secondary dolomite, a few thin streaks of dark grey chert, pyritic, bituminous.
- 4010'-4030' Dolomite, as above - some light grey chert, quartz crystals.
- 4030'-4040' Dolomite, medium dark grey, very fine to fine crystalline slight vuggy porosity, scattered pyrite, gypsum crystals lining the vugs.

4040'-4050'

Dolomite, dark gray to black, fine crystalline - scattered coarse crystals, dense, bituminous, partings of black bituminous shale, cherty, pyritic in part, some scattered inclusions of gypsum and quartz crystals.

4050'-4100'

Dolomite, dark grey to black, microcrystalline to very fine crystalline - scattered coarse crystals (fossil remnants) bituminous, partings of black bituminous shale, cherty (grey - dark grey banded) scattered pyrite.

4100'-4120'

Dolomite as above abundant frosted coarse rounded floating quartz grains, some stringers of sandstone - glassy, coarse grained quartzose, very siliceous - grading to a quartzite, tight, scattered pyrite.

4120'-4130'

Dolomite, light grey - slightly greenish to brownish in part, microcrystalline to very fine crystalline, dense, frosted, coarse, rounded floating quartz grains, scattered fractures filled with white coarse crystalline secondary dolomite, pyritic, some streaks of green brittle dolomitic shale.

Sandstone, light grey, fine grained - some scattered coarse grains, quartzose, frosted - rounded grains, very dolomitic - grading to a sandy dolomite in part, tight.

4130'-4140'

Dolomite, with sandy streaks as above, interbedded green brittle shale - finely disseminated pyrite, sandy streaks.
Siltstone, light grey dolomitic.

Cambrian. 4145'

4140'-4150'

Dolomite, reddish grey, microcrystalline to very fine crystalline, silty and sandy, dense - interbedded shale - green, brittle, disseminated pyrite.

4150'-4163'

Dolomite, reddish as above and light grey microcrystalline to very fine crystalline, very silty and sandy - grading to a dolomitic siltstone and sandstone in part, dense, interbedded green, brittle shale - slightly dolomitic.

Section 3

DRILLING AND ENGINEERING

SUMMARY OF DAILY DRILLING OPERATIONS

Horn R Candel et al Ebbutt J-05

Date	Depth	Operation
3- 2-71	0'	Preparing to spud.
3- 3-71	289'	Drilling 12-1/4" surface hole. Spudded in 5:00 p.m., March 2, 1971.
3- 4-71	510'	Running surface casing.
3- 5-71	510'	Heading up surface casing. Ran 15 joints 8-5/8", 24 lb./ft. J-55 casing plus Guide Shoe and Float Collar. Landed at 505' K.B. Cemented with 316 sacks of neat portland cement plus 2% CaCl ₂ . Plug down 11:00 a.m., March 4, 1971. Good returns. Waiting on cement for 8 hours. Headed up and tested Blind Rams to 1,000 psi.
3- 6-71	1330'	Drilling 7-7/8" hole. Pressure tested Pipe Rams and hydril each to 1,200 psi.
3- 7-71	2080'	Drilling 7-7/8" hole.
3- 8-71	2363'	Drilling 7-7/8" hole.
3- 9-71	2642'	Drilling 7-7/8" hole.
3-10-71	2880'	Drilling 7-7/8" hole.
3-11-71	3093'	Drilling 7-7/8" hole.
3-12-71	3217'	Drilling 7-7/8" hole.
3-13-71	3440'	Drilling 7-7/8" hole.
3-14-71	3634'	Drilling 7-7/8" hole.
3-15-71	3790'	Drilling 7-7/8" hole.
3-16-71	4002'	Drilling 7-7/8" hole.

SUMMARY OF DAILY DRILLING OPERATIONS (Continued)

Horn R Candel et al Ebbutt J-05

Date	Depth	Operation
3-17-71	4163'	Drilling 7-7/8" hole.
3-18-71	4163'	Waiting on orders. Ran Schlumberger logs: Induction Electric 4164' - 504' Sidewall Neutron Porosity 4164' - 504' BHCSGRC 4163' - 504' Formation Density 4164' - 504'
3-19-71	4163'	Running abandonment plugs. Ran drill stem test No. 1. 2690' - 2800' Manitoe. Times: 5 minutes, 30 minutes, 60 minutes and 60 minutes. Pressures: I.H.S. 1283 In. Flow 150 I.S.I. 590 Flow 187 Final Flow 574 Final S.I. 588 Final H.S. 1283 Recovered 300' muddy salt water, 760' brackish salt water. 67,800 ppm salinity. Ran Plug No. 1: 4163' to 4063', 25 sacks + 4% Gel Ran Plug No. 2: 2850' - 2640', 90 sacks + 3% CaCl ₂
3-20-71		Abandoned. Felt plug No. 2 at 2620'. Ran plug No. 3 - 555' to surface. 225 sacks + 4% Gel. Cut off casing. Welded on cap and marker. Rig released at 7:45 p.m. March 19, 1971.

DRILL STEM TEST REPORT

WELL: Horn R Candel et al Ebbutt J-05

DATE: March 18, 1971 TEST NO. 1
 INTERVAL TESTED: 2690' - 2800' FORMATION: Manitoe
 TOTAL DEPTH DRILLER: 4163' LOGS: IES, BHCSGRC, FDL and SNP
 HOLE SIZE: 7-7/8" RAT HOLE SIZE: -
 TESTING COMPANY: Lynes United OPERATOR: Harris

MUD	DRILL PIPE	TEST TOOL
Type <u>Gel Chemical</u>	Type <u>F.H.</u>	Size Rubber <u>7"</u>
Wt. <u>9.1</u>	Size <u>4 1/2"</u>	Type <u>-</u>
Visc. <u>105</u>	Size T.J. <u>5-3/16</u>	Tool Type <u>-</u>
W.L. <u>7.6</u>	Collars <u>4 1/2" FH</u>	Size Choke <u>1/2"</u>
pH <u>-</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>4:15 p.m. 3/17/71</u>	Preflow <u>5</u> min.	B.H. Temp. <u>137</u> °F.
Start Tester in <u>10:15 a.m. 3/18/71</u>	I.S.I. <u>30</u> min.	Gauge Depths <u>2700</u> K.B.
Tester on Bottom <u>12:15 p.m.</u>	Tool Open <u>60</u> min.	<u>2712</u> K.B.
Tool Open <u>12:45 p.m.</u>	F.S.I. <u>60</u> min.	<u>-</u>
Tool Closed <u>12:50 p.m.</u>	<u>Upper Gauge</u>	<u>Lower Gauge</u>
Tool Open <u>1:20 p.m.</u>	I.H.S. <u>1283</u> psig	I.H.S. <u>1272</u> psig
Tool Closed <u>2:20 p.m.</u>	Preflow <u>150</u> psig	Preflow <u>273</u> psig
Tool Loose <u>3:30 p.m.</u>	I.S.I. <u>590</u> psig	I.S.I. <u>594</u> psig
Tool Out <u>5:45 p.m.</u>	Initial Flow <u>187</u> psig	Initial Flow <u>185</u> psig
Rubber Condition <u>Good</u>	Final Flow <u>574</u> psig	Final Flow <u>576</u> psig
Test O.K. <u>Yes</u>	Final S.I. <u>588</u> psig	Final S.I. <u>594</u> psig
	F.H.S. <u>1283</u> psig	F.H.S. <u>1272</u> psig

BLOW: Good blow decreasing slightly at end of test. No gas to surface.

RECOVERY: 300' muddy salt water. 760' brackish salt water 67,000 ppm.

James A. Lewis Engineering Co. Ltd.

SURFACE CASING REPORT

Horn R Candel et al Ebbutt J-05

Date: March 4, 1971

Ran 15 joints of 8-5/8", 24 lb./ft., 8RD thread, J-55 casing plus landing joint, Davis float collar and guide shoe.

Landed at: 505' K.B.

Cemented to surface with 316 sacks of Portland cement and 2% CaCl_2 .

ABANDONMENT REPORT

Plug No. 1: 4163' to 4063' with 25 sacks of cement and 4% Gel.

Plug No. 2: 2850' to 2640' with 90 sacks of cement and 3% CaCl_2 . Felt plug at 2620'.

Ran third plug from 555' to surface with 225 sacks cement and 4% Gel.

BIT RECORD

WELL: Horn R Candel et al Ebbutt J-05

BIT NO.	SIZE & SER. NO.	DEPTH OUT, Feet	FOOTAGE, Feet	HOURS	WEIGHT, M Pounds	R.P.M.	PUMP PRESSURE, Psi
SURFACE HOLE							
1A	12-1/4-85684	466	466	20	6	160	
2A	12-1/4	510	44	2½	8	160	
MAIN HOLE							
1	7-7/8-30399	1971	1461	27¾	15	70	
2	7-7/8-28661	2178	207	9	18	60	
3	7-7/8-30202	3116	938	86	40	50	
4	7-7/8-29565	3713	597	72	40	50	
5	7-7/8-29559	4163	450	54	40	48	

SUMMARY

Surface Hole 510 of 12-1/4 " 22-1/2 hours on bottom.
Main Hole 3653 of 7-7/8 " 248-3/4 hours on bottom.
Core Hole — of — " — hours on bottom.

SUMMARY OF MUD ADDITIVES

Horn R Candel et al Ebbutt J-05

Hydra-gel	58,100 lbs.
CMC	1,250 lbs.
Caustic	250 lbs.
Lime	50 lbs.
Bicarbonate	50 lbs.
Pelfex	200 lbs.
Sawdust	30 sax
DV-68	25 gal.

SURVEY RECORD

Horn R Candel et al Ebbutt J-05

Depth, Feet	Deviation, Degrees
Surface Hole	
79	3/4
110	1/2
221	1/4
282	1/2
309	7/8
334	7/8
403	1/2
510	1/4
Main Hole	
692	1/2
907	0
1093	1/2
1313	1/2
1501	1/2
1720	1
1815	7/8
1940	1-1/4
2065	1/2
2158	1-1/4
2178	7/8
2269	1-1/4
2671	1-1/2
3104	1-3/4
3604	4
3698	4
4010	3
4163	4-1/4

Section 4

WELL LOG DATA

Horn R Candel et al Ebbutt J-05

Log	Scale	Interval
Induction Electric	2" & 5"/100'	4164' to 504'
Sidewall Neutron Porosity	2" & 5"/100'	4164' to 504'
Formation Density	2" & 5"/100'	4164' to 504'
Borehole Compensated Sonic Gamma-Ray Caliper	2" & 5"/100'	4163' to 504'

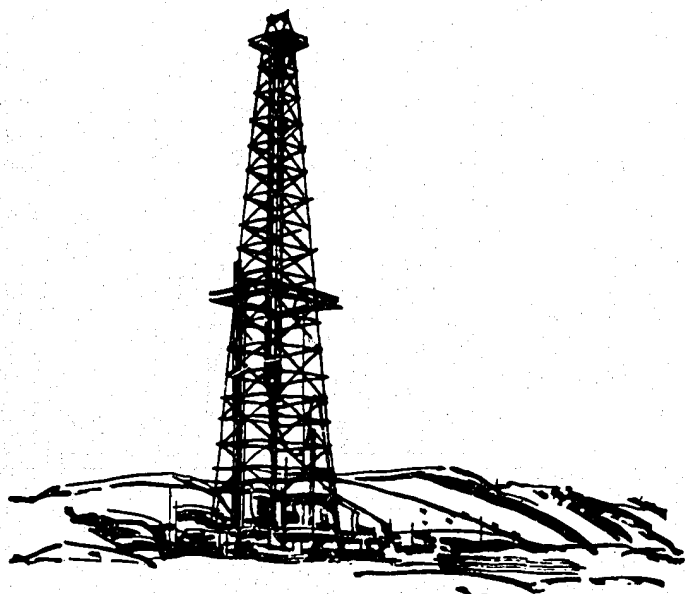


LYNES

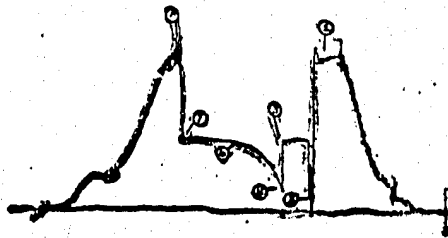
BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools

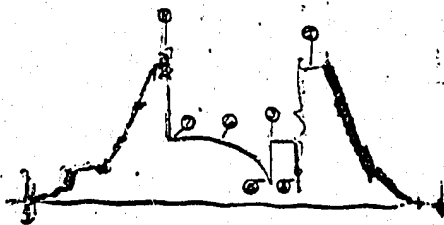
**DRILL STEM TEST
TECHNICAL SERVICE REPORT**



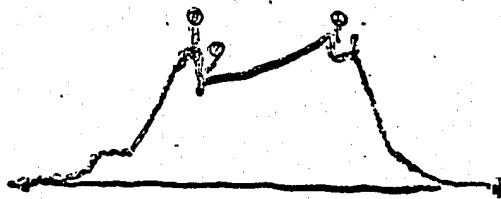
HERN RIVER CROSSING AND BRIDGE CROSS
 10° 24' 37.00 10° 15' 00.00
 10° 15' 00.00



HERN RIVER CROSSING AND BRIDGE CROSS
 10° 15' 37.00 10° 15' 00.00
 10° 15' 00.00



HERN RIVER CROSSING AND BRIDGE CROSS
 10° 15' 37.00 10° 15' 00.00
 10° 15' 00.00



Canadian Delhi Oils Ltd.
Horn River Candel et al Ebbutt J-05
62° 24' 37.00 122° 15' 56.00 DST # 1
NOMENCLATURE (Definition of Symbols)

Q	= average production rate during test, bbls./day
Q_g	= 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_r	= 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 2707... ft. Subsea depth ft.		Ticket No. ...2962.....		Hour Recorder No. ...1097.....					
$t_0 = 5$ Mins. Initial Shut-In Pressure		Second Flow Pressure		$t_0 = 65$ Mins. Final Shut-In Pressure					
Time, Min. ϕ	$\frac{t_0 + \phi}{\phi}$	PSIG	PSIG ² +100 (Gas)	Time Defl. .000"	PSIG	Time, Min. ϕ	$\frac{t_0 + \phi}{\phi}$	PSIG	PSIG ² +100 (Gas)
0	----	150				0	----	574	
3	2.667	586				5	14.000	582	
6	1.833	588				10	7.500	583	
9	1.556	589				15	5.333	584	
12	1.417	590				20	4.250	585	
15	1.333	590				25	3.600	586	
18	1.278	590				30	3.167	586	
21	1.238	590				35	2.857	587	
24	1.208	590				40	2.625	587	
27	1.185	590				45	2.444	588	
30	1.167	590				50	2.300	588	
						55	2.182	588	
						60	2.083	588	

[illegible]

$\frac{1.0 + \phi}{\phi}$

Rec. No. 1097

Depth 2707 ft.

P_o^2 (Gas) _____ psig²

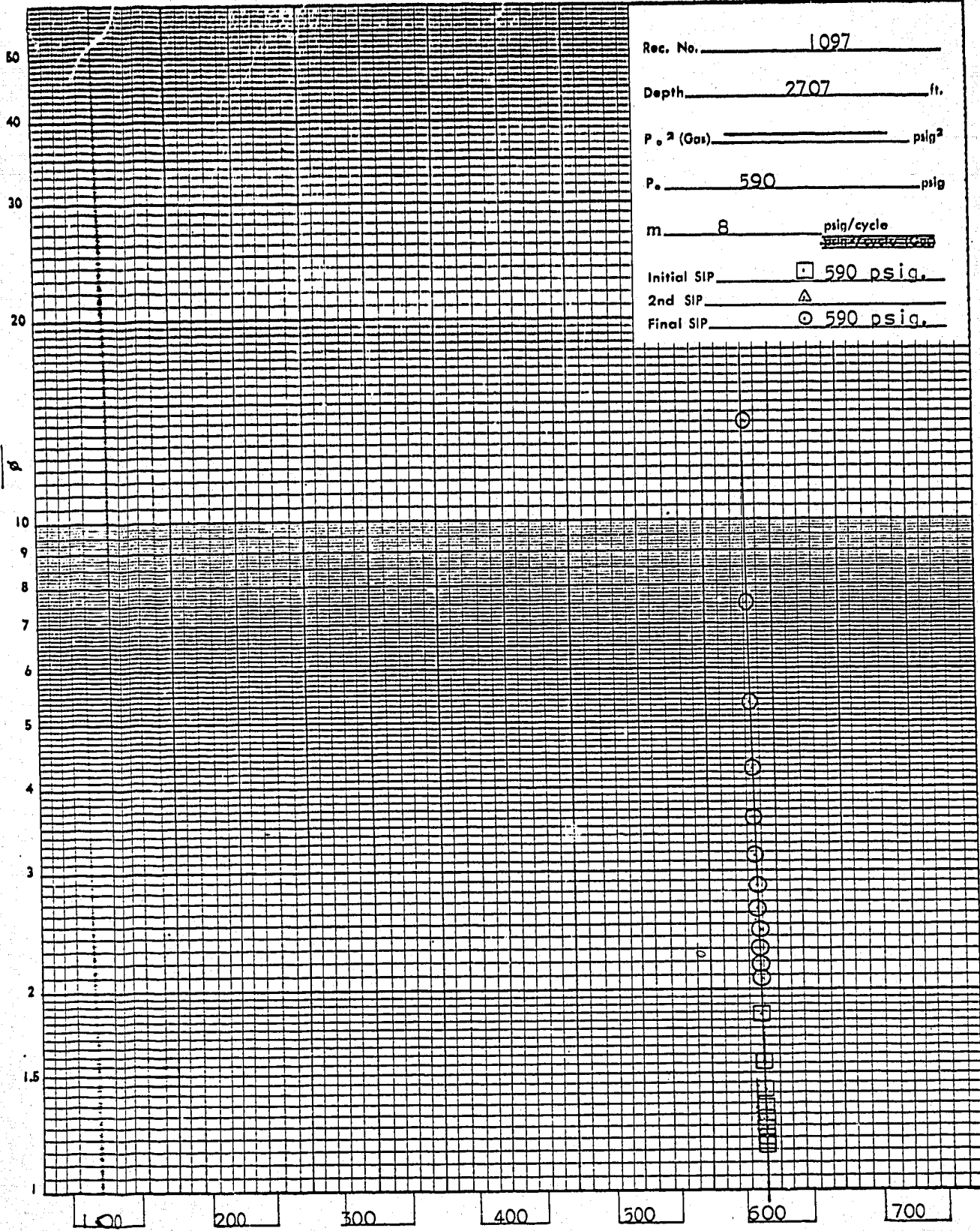
P_o 590 psig

m 8 psig/cycle
~~psig/cycle = 1000~~

Initial SIP ☒ 590 psig.

2nd SIP ☐ △

Final SIP ☒ 590 psig.



PSIG (OIL OR WATER)

DST # 1

PRESSURE EXTRAPOLATION PLOT

LYNES UNITED SERVICES LTD.

TEST DATA				GENERAL INFORMATION	
Formation	Hume - Bear Rock		T.D.	4165	Ft.
Interval Tested	2690	Ft. to	2800	Ft.	
Feet of Net Pay Tested	110			Ft.	
Type of Test	Conventional Straddle				
Cushion	oil	Amount		Ft.	
Started in Hole at	10:30	Hrs.	Tool Open at	12:50	Hrs.
Pre-Flow	5	Mins.	Initial Shut-in	30	Mins.
2nd Flow		Mins.	Second Shut-in		Mins.
Final Flow	60	Mins.	Final Shut-in	60	Mins.
Remarks:					
Blow:			Fair initial puff. Good air blow decreasing slightly throughout the test.		
GAS BLOW MEASUREMENTS			MUD AND HOLE DATA		
Measured with			Mud Type Gel Chem		
			Weight 9.1 Viscosity 105 Water Loss 7.6		
			Filter Cake 2/32" Bottom Hole Temperature 1370		
			Drill Pipe Size 4" FH Weight		
			Drill Collars 4 1/2" FH I.D. 7/8" Feet Run 520		
			Main Hole or Casing Size 7 7/8"		
			Rathole or Liner Size No. of Feet		
			Bottom Hole Choke Size 1 1/2"		
			Surface Choke Size		
			Packer Rubber Size 7"		
			REMARKS Shut-in pressures suggest high permeability within the interval tested.		
RECOVERY					
TOTAL FLUID RECOVERED 1060			Ft. Consisting of:		
300 Ft. of muddy salt water					
760 Ft. of blackish salt water					
Ft. of					
Ft. of					
Test was/was not Reverse Circulated			was not		
Oil Recovery A.P.I.			Water Specific Gravity		
Salinity 67,800 PPM					
PRESSURE READINGS					
Inside _____ Outside _____ X		Inside _____ Outside _____ X		Inside _____ Outside _____ X	
Recorder No. 1097		Recorder No. 2816		Recorder No. 966	
Capacity 4100		Capacity 4600		Capacity 5040	
Depth 2707		Depth 2712		Depth 2808	
NUMBER KEY:					
1 - INITIAL HYDROSTATIC		1283		1272	
2 - PRE-FLOW		150		273	
3 - INITIAL SHUT-IN		590		594	
4a - 2nd INITIAL FLOW					
4b - 2nd FINAL FLOW					
4c - 2nd SHUT-IN					
5 - 3rd INITIAL FLOW		187		185	
6 - FINAL FLOW		574		576	
7 - FINAL SHUT-IN		588		594	
8 - FINAL HYDROSTATIC		1283		1272	
				1346	
				1018 (bleed off)	
				1346	

Company

Well Name and Description

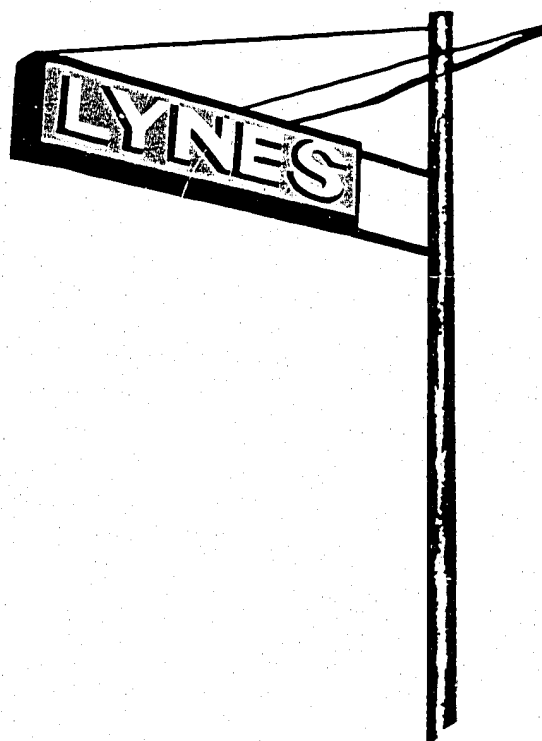
Test No.

Date of Test

Canadian Delhi Oils Ltd.

Horn River Candel et al Ebbutt J-05 620 24' 1220 15' #1

March 18/71



LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA

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. 12 LOCATION HORN R. CANDEL ETAL EBBUT. J. OS AREA FORT SIMPSON DATE MARCH 19, 1971

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

Driller AL NARIN 12

Derrick J. LAPPENBUSH 12

Floor W. LAPPENBUSH 12

Floor W. WHITE 12

Floor

Motor F. LAPPENBUSH 12

Mechanic

Extra

Injuries:

Fires:

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

Driller J. ROBINSON 12

Derrick A. HERMAN 12

Floor T. SPIELHOFF 12

Floor K. WILLIAMS 12

Floor

Motor N. SAVARD 12

Mechanic

Extra

Injuries:

Fires:

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

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

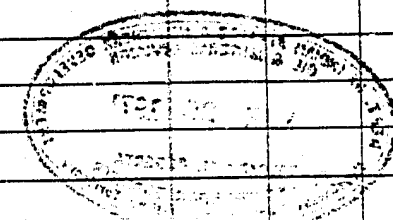
From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
General												
W.L. F.C. pH.												

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
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
General												
W.L. F.C. pH.												

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
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
General												
W.L. F.C. pH.												

REMARKS	Start	Stop	Interval
LAY DOWN 21 DRILL COLLARS	12:00	1:30	1 1/2
RUN IN & PICK UP 20 SINGLES	1:30	3:00	1 1/2
CIR TO CEMENT	3:00	5:15	2 1/4
RCE TO CEMENT	5:15	5:30	1/4
RUN PLUG #1	5:30	6:00	1/2
PULL STDS	6:00	6:30	1/2
RUN PLUG #2	6:30	7:00	1/2
W.O.C.	7:00	8:00	1

REMARKS	Start	Stop	Interval
W.O.C.	8:00	8:45	1/2
RUN IN & PICK UP 2# PLUG @ 2620	8:45	9:15	1/4
HOIST TO RUN PLUG 3#	9:15	9:30	1/4
RUN PLUG 3# FROM 555	9:30	9:45	1/4
TO SURFACE	9:45	9:45	0
LAY DOWN DRILL PIPE	9:45	9:45	0
TEAR OUT B.O.P.S.	9:45	9:45	0
CLEAN MUD TANKS DRAIN	9:45	9:45	0
PUMPS & REMOVE B.O.P.	9:45	9:45	0
CUT OFF, CSY WELDED CAP	9:45	9:45	0
RIG RELEASED @ 7:45 p.m. MARCH 19/71	9:45	9:45	0



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. 12 LOCATION HORN R. CANDELITA LBBWT J-05 AREA FACT SIMPSON DATE MARCH 18, 1971

Team — 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		REMARKS		Time			
Driller	AL NOREN	8	4163																								LOG W/ SCHRAMBERGER	12:00	7:00	7:00	
Derrick	J. LAPPENBUSH	8																									TEAR OUT SCHRAMBERGER	7:00	7:15	1/4	
Floor	W. LAPPENBUSH	8																									RIG SER. B.O.P. & BLIND RAM'S	7:15	7:30	1/4	
Floor	W. WHITE	8																									W.O.O.	7:30	8:00	1/2	
Floor																															
Motor	F. LAPPENBUSH	8																													
Mechanic																															
Extra																															
Injuries:																															
Fires:																															
Team — 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		REMARKS		Time			
Driller	J. Robinson	12																									WAIT ON ORDERS	8:00	8:30	1/4	
Derrick	A. HERMAN	12																									RIG SER. + CHECK B.O.P.	8:30	8:45	1/4	
Floor	T. SPELDOFF	12																									MAKE UP PACKER	8:45	10:45	2	
Floor	K. WILLIAMS	12																									RUN IN DST #1	10:45	12:15	1 1/2	
Floor																											RIG UP TO TEST	12:15	12:45	1/2	
Motor	NORMAN SAUARD	12																									TESTING	12:45	3:00	2 1/4	
Mechanic																											BREAK OFF TESTING HEAD	3:00	3:45	1/4	
Extra																											HOIST	3:45	4:00	1/4	
Injuries:																															
Fires:																															
Team — 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		REMARKS		Time			
Driller	A. NOREN	4																									FINISH OUT	4:00	5:45	1 3/4	
Derrick	J. LAPPENBUSH	4																									BREAK DOWN & LOAD OUT	5:45			
Floor	W. LAPPENBUSH	4																									PACKED	7:45	8:15	1/4	
Floor	W. WHITE	4																									PULL TAIL PIPE	7:45	8:15	1/2	
Floor																											RIG SERVICE & B.O.P.	8:15	8:50	1/4	
Motor	F. LAPPENBUSH	4																									W.O.O.	8:30	11:30	3	
Mechanic																											RUN IN D.C.	11:30	12:30	1/2	
Extra																															
Injuries:																															
Fires:																															

Totco Ring on Bit No. _____ D.P. Calipered 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. 12 LOCATION HORN R. CANDLE LTALE EBBWATI J-05 AREA FORT SIMPSON DATE MARCH 17, 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	Singles
Driller	AL NOREN	8	4114	49	463	7 3/4	102	21	6	2 3/8	46			3523.16
Derrick	J. LAPPENBUSH	8	5	7 1/8	XSSR	3-13	29559	40	48	45R	54		Run	603.29
Floor	W. LAPPENBUSH	8												
Floor	W. WHITE	8												
Floor														
Motor	F. LAPPENBUSH	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	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	J. Robinson	8	4163				21	6	2 3/8					3523.16
Derrick	A. HARMAN	8	5	7 1/8	XSSR	3-13	29559							603.29
Floor	T. SPIELHOFF	8												
Floor	K. WILLIAMS	8												
Floor														
Motor	N. SAVARD	8												
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	Hrs.	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	Singles
Driller	AL NOREN	4	4165				102	21	6	2 3/8	46			3523.16
Derrick	J. LAPPENBUSH	4	5	7 1/8	XSSR	3-13	29559							603.29
Floor	W. LAPPENBUSH	4												
Floor	W. WHITE	4												
Floor														
Motor	F. LAPPENBUSH	4												
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
DRILL 7 1/8" HOLE	12 ⁰⁰	3 ²⁰	3 1/2
RIG SERVICE & B.O.P.s	3 ³⁰	3 ⁴⁵	1/4
DRILL	3 ⁴⁵	8 ⁰⁰	4 1/4
Company Time			
Cont'r Time			
Circ Samples	8 ⁰⁰	8 ³⁰	1/2
W.O.O	8 ³⁰	10 ⁰⁰	1 1/2
R.G. S&R: & CHECK BOPs	10 ⁰⁰	10 ⁰⁰	1/4
Drum & T&R (35 STANDS)	10 ⁰⁰	12 ⁰⁰	2
Circ & Cont'd Mud Tests (Water in)	12 ⁰⁰		
Schlumberger		3 ⁴⁵	3 1/4
Submer Q4163	3 ⁴⁵	4 ⁰⁰	1/4
Company Time			
Cont'r Time			
R.G. S&R: & CHECK BOPs	4 ⁰⁰	4 ⁰⁰	1/4
HOIST (STRAD)	4 ⁰⁰	5 ⁰⁰	1 1/2
RIG UP SCHLUMBERGER	5 ¹⁵	7 ⁰⁰	1 1/4
Logging w/ SCHLUMBERGER	6 ⁰⁰	12 ⁰⁰	6
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. 12 LOCATION HORN R. C. DINDDEL ET AL FRUIT JOES AREA FT. SIMPSON DATE March 18 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	REMARKS	Start	Stop	Interval
										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons					
Driller	H.M. Dittmer	8			3936	66	4062	7 3/4	100m	21	6	2 1/2					Singles	Drill	1200	1200	1 1/2
Derrick	L. Brennan	8															D. Collars	603.27	145	145	
Floor	F. Hardisty	8															Other Ft.	DRILL	2.00	2.00	6
Floor	Wm. Hunter	8															C.B. Ft.				
Floor																	Subs. Ft.	2.20			
Motor	J. Dudge	8															Ft. Up On Kelly				
Mechanic																	TOTAL				
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	REMARKS	Start	Stop	Interval
										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons					
Driller	AL Noren	8			4002	58	4060	7 1/2	100.	21	6	2 1/2	46.				Singles	Drilling 7 1/8' Hole	800	900	1
Derrick	J. LAPPENBUSH	8															D. Collars	603.29	900	915	1/4
Floor	FW. LAPPENBUSH	8															Other Ft.	DRILL	915	130	4 1/4
Floor	W. WHITE	8															C.B. Ft.	SURVEY @ 4010' 3"	130	146	1/4
Floor																		DRILL	146	400	2 1/4
Motor	F. LAPPENBUSH	8															Subs. Ft.				
Mechanic																	Ft. Up On Kelly	18			
Extra																	TOTAL				
Injuries:																					
Fires:																					
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	REMARKS	Start	Stop	Interval
										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons					
Driller	J. Robinson	8			4060	54	4114	7 3/4	102	21	6	2 1/2					Singles	Drill	400	615	2 1/4
Derrick	W. HARMAN	8															D. Collars	603.29	615	615	1/4
Floor	T. SPIEL NOEG	8															Other Ft.	DRILL	615	120	5 1/2
Floor	K. WILLIAMS	8															C.B. Ft.				
Floor																	Subs. Ft.	12.30			
Motor	A. SANCHEZ	8															Ft. Up On Kelly	23			
Mechanic																	TOTAL				
Extra																					
Injuries:																					
Fires:																					

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 _____

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

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

G No. 12 LOCATION HORN R CANADIAN FBBWT Jct AREA East Simpson DATE Nov 15 1974

REMARKS

Time		
Start	Stop	Interval

Tour — Midnight - 8 a.m.

Specify actual hours worked

Mrs.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands 50
					No.	O.D.	I.D.	Wgt.		Gals.	Bbls.		
3717	77	3740	7 1/2	98 m	2	6	2 1/2						Singles / 314554

[illegible]

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change	
WEIGHT		9.1	9.1	9.1	GEL 3000 Lbs		1		Subs. Ft. 220
VISCOSITY		62	60	64	Emp 150 Lbs		2		
GEL					1" Stream of water		3		Ft. Up On Kelly

[illegible][illegible]

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stand	
					No.	O.D.	I.D.	Wgt.		Gals.	Bbls.	Tons	61-1
3790	70	3860	7 3/4	100.17	24	6'	2 3/4						32 M.S. Singles
No.	Size	Turns	Size	Left	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars

[illegible]

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surface Depth	MOTOR TURNS	Change	Subs. Ft.
WEIGHT	9.1	9.1	9.1	9.1	DEL = 3000 Lbs		1		220
VISCOSITY	58	65	66	58	CMC = 75 Lbs		2		Ft. Up On
GEL							3		Kelly

P U M	No. 1	Pressure	500 500 500 500							4				TOTAL
	Model	S.P.M.	5K55 55 65							5				
	Size	Liner Size	15 1/4 x 1 1/2		Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet on Spool	New Slip
	No. 2	Pressure												

5	Model	Serial			General
	S.P.M.				
	Liner Size				
	W.L.	F.C.	pH.		

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Status
					No.	O.D.	I.D.	Wgt.		Gals.	Bbls.	Tons	
3860	76	3936	7 3/4	4812	21	5	2 3/4						Singles
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION		D. Collars

BITS	5	74	X55R	3-13	29554	30-40	48	223	237	Run	60524
											Other Ft.
											C.B. Ft.
	WLD	4 in	5 in	8 in	10 in	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change	

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Notes
WEIGHT	9.1	9.1	9.1	9.1	Wt 1000
VISCOSITY	62	66	60	62	Cmc 25
GEL					

Subs. Ft.
22

Ft. Up On Kelly 14

[illegible]

S	Model	S.P.M.					General
		Liner Size					
	W.L.	9.7	F.C.	8.2	pH	7.6	

Big SER @ B.C.P.
DRILL

[illegible]

DRILL

DRILL

[illegible]

DRILL
Rig SER & BOP
DRILL

0

[illegible]

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

Total Contractor Time _____ Mrs. Toolpusher Al Norman
Total Company Time _____ Mrs. Approved by IGN

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.

G No. 12 LOCATION Flamingo, Trinidad AREA Unit 1 DATE March 14, 1977

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

Driller H. R. Smith 12
Derrick B. Brown 12
Floor H. Hardisty 12
Floor Wm. Hunter 12
Motor J. Dingle 12
Mechanic
Extra
Injuries:
Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
3572	62	3634	7 1/4	94	No. 21 O.D. 6 I.D. 2 1/2 Wgt. 22				490
No.	Size	Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed
4	7 1/2	255R	3 1/2	29565	40	48	518	828	
MUD					At Surveys Degree		MOTOR HOURS		Next Oil Change
WEIGHT 93 93 97 93					3684 4		1		
VISCOSITY 19 65 60 54							2		
GEL							3		
PUMPS							4		
No. 1 Pressure 100 100 80 80							5		
Model S.P.M. 54 54 54 54									
Liner Size 5 1/2 2 1/4									
No. 2 Pressure									
Model S.P.M. mud R 011									
Liner Size 5 1/2 2 1/4									
W.L. 9.8 F.C. 7/2 pH. 7.6									

REMARKS	Time		
	Start	Stop	Interval
Rig SER & BOPS	12:00	12:15	15
DRILL	12:15	7:30	7 1/4
CIRC TO SURVEY	7:30	7:45	15
SURVEY	7:45	8:00	15
Company Time			
Cont'r Time			

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

Driller J. R. Smith
Derrick
Floor
Floor
Motor
Mechanic
Extra
Injuries:
Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
3634	64	3698	7 3/4	94	No. 21 O.D. 6 I.D. 2 1/2 Wgt. 22				492
No.	Size	Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed
4	7 1/2	255R	2 1/4	29565	40	48	582	270	
MUD					At Surveys Degree		MOTOR HOURS		Next Oil Change
WEIGHT 94 94 94 94							1		
VISCOSITY 72 72 67 65							2		
GEL							3		
PUMPS							4		
No. 1 Pressure 750 750 750 750							5		
Model S.P.M. 53 53 53 53									
Liner Size 5 1/2 2 1/4									
No. 2 Pressure									
Model S.P.M.									
Liner Size 5 1/2 2 1/4									
W.L. 10.2 F.C. 7/2 pH. 8.0									

REMARKS	Time		
	Start	Stop	Interval
Rig SER & BOPS	8:00	8:15	15
DRILL	8:15	11:00	2 3/4
Company Time			
Cont'r Time			

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

Driller
Derrick
Floor
Floor
Motor
Mechanic
Extra
Injuries:
Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
3698	15	3713	2	96	No. 21 O.D. 6 I.D. 2 1/2 Wgt. 22				494
No.	Size	Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed
4	7 1/2	255R	2 1/4	29565	40	50	597	72	
5	7 1/2	255R	3 1/2	29554					
MUD					At Surveys Degree		MOTOR HOURS		Next Oil Change
WEIGHT 93 93					3698 7		1		
VISCOSITY 69 73							2		
GEL							3		
PUMPS							4		
No. 1 Pressure							5		
Model S.P.M.									
Liner Size									
No. 2 Pressure									
Model S.P.M.									
Liner Size									
W.L. F.C. pH.									

REMARKS	Time		
	Start	Stop	Interval
DRILL	11:00	12:00	2
CIRC	12:00	12:15	15
SURVEY	12:15	12:30	15
TRIP OUT F/RIT	12:30	9:30	3
Rig SER & Blind RAMS	9:30	9:45	15
STRAP in HOLE	9:45	12:00	2 1/4
STRAP Tally 308779			
Board 308494			
283			
Company Time			
Cont'r Time			

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

Total Contractor Time _____ Hrs. Toolpusher W. M. Smith
Total Company Time _____ Hrs. Approved by R. M. Smith

DIVISION OF KENTING EXPLORATION SERVICES LTD

DAY WORK RECORD

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

REMARKS

Specify actual hours worked	Mrs.
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Mechanic

Fires:

Tour — 3 a.m. to 4 p.m.

Mechanic

Fires:

Tour — 4 p.m. to Midnight

Floor

1105.

Totco Ring on Bit No. _____

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	45
3366		84		3440	7 3/4	92.1 lb		21	6	2 3/4					2304 ft
															Singles
BITS	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION		D. Collars	
	4	7 1/2	XSSR	3/4 X 3/8	29565	70	40	334	37 1/2					60220	
														Other Ft.	
														C.B. Ft.	
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives				At Surveys Degree		MOTOR HOURS	Next Oil Change		
WEIGHT		9.3	9.2	9.3	9.3	Gel 1000 Lbs						1		Subs. Ft.	
VISCOSITY		70	89	63	65	Dv 18 1 gal						2		220	
GEL						Cmc 2.5 LBS						3		Ft. Up On Kelly	
												4		9	
												5		TOTAL	
PUMPS	No. 1	Pressure	1050	950	950	950									
	Model D 300	S.P.M.	50	50	50	50									
	Liner Size						Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip or	Feet Cut	Feet Left on Spool	Next Slip
	No. 2	Pressure	mud Roll												
Model E 250		S.P.M.					General								
Liner Size		5 1/2 X 1 1/2													
Wt.		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.	Bqts.	Tons										Singles	
440	6H	350M	7 3/4	92	21	6"	1 3/8										24656
BITS	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Coilers				
	H	7 7/8	X56R	2-1/4"	29565	40	45	358	424					60226			
													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						9.2	9.2	9.2	9.2	DFL=1000			1		220		
VISCOSITY						68	65	64	72	C.M.C.=25			2				
GEL													3		Ft. Up On Kelly 5		
													4				
													5		TOTAL 350.7		
PUMPS	No. 1	Pressure	950	750	750	750											
	Model	S.P.M.	50	55	55	55											
	300	Liner Size					Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or	Cut	Feet Left on Spool	Next Slip		
	No. 2	Pressure															
	Model	S.P.M.					General										
	250	Liner Size															

From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		— DRILL COLLARS				FUEL		WATER		COAL		Stands	
No.		Size		Type		Size		Serial No.		Weight		R.P.M.		Ft. Drilled		Gals.		Bbls.		Tons	
3504		68		3572		734		94m		21		6		28						47	
																				29280	
																				Singles	
																				D. Collars	
																				60220	
																				Other Ft.	
																				C.B. Ft.	
																				Subs. Ft.	
																				220	
																				Ft. Up On	
																				Kelly	
																				TOTAL	
																				Next Slip	
																				Slip	
																				Feet Left on Spool	
																				Cut	
																				Feet Left on Spool	
																				Next Slip	
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																				Cut	
																				Feet Left on Spool	
																				Next Slip	

Size	Results	From Pipe Rack
22.0" 12.1		

[illegible][illegible][illegible]

Total Contractor Time _____ Hrs. Toolpusher Al Allen

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

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. 12 LOCATION BARNES, PARADE, L.T.A.I. EBBW, T.C.S. AREA FOR T. Simpson DATE MARCH 11, 1971

Tor — 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.		3147		70		3217		7 1/2		90m		21		6		2 1/2				41	
Driller H.M. DITMER		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed	
Derrick L. BRENNAN		8		7		7 1/2		X55R		3/4		29565		40		48		101		184			
Floor F. HARDISTY		8																					
Floor W.M. HUNTER		8																					
Floor																							
Motor J. Dwyer		8																					
Mechanic																							
Extra																							
Injuries:																							
Fires:																							

Tor — 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.		3217		69		3286		7 1/4		91		21		6		2 1/2				41-1	
Driller L. Pratt				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed	
Derrick				7 1/4		X55R		2-1/2		29565		40		48		170		19				6230	
Floor																						Other Ft.	
Floor																						C.B. Ft.	
Floor																						Subs. Ft.	
Motor																						Ft. Up On Kelly	
Mechanic																						TOTAL	
Extra																						Next Slip	
Injuries:																							
Fires:																							

Tor — 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.		3286		80		3366		7 3/4		91m		21		6		2 1/2				41	
Driller H.M. DITMER		4		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed	
Derrick L. BRENNAN		4		7 3/4		X55R		2-1/2		29565		40		48		250		264				6220	
Floor F. HARDISTY		4																				Other Ft.	
Floor W.M. HUNTER		4																				C.B. Ft.	
Floor																						Subs. Ft.	
Motor J. Dwyer		4																				Ft. Up On Kelly	
Mechanic																						TOTAL	
Extra																						Next Slip	
Injuries:																							
Fires:																							

REMARKS			Time		
Start	Stop	Interval			
12:00	2:15	2 1/4	DRILL		
2:15	2:25	1/4	BIG SERV & BOPS		
2:25	2:40	15	DRILL		
Company Time			Cont'r Time		
8:00	9:30	1 1/2	DRILL 7 3/4 hole		
9:30	9:45	1/4	AIR SEAL - 4 K BOPS		
9:45	10:00	15	DRILL		
Company Time			Cont'r Time		
4:00	8:00	4	DRILL		
8:00	8:15	1/4	BIG SERV & BOPS		
8:15	12:00	3 3/4	DRILL		
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 _____

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAY WORK RECORD

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

Specify actual hours worked

Tour — 3 a.m. to 4 p.m.

Specify actual hours worked	Mrs.
-----------------------------	------

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

Totco Ring on Bit No. _____

[illegible]

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

Total Contractor Time _____ Hrs.
Total Company Time _____ Hrs.

Toolpusher A. N. N.
Approved by D. H. H.

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. 12 LOCATION HARM-B. CARADOL FLAK FERRIT J-25 AREA N.M.T. DATE Mar 10 1971

Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.	
Driller	H.M. DITMER	8			
Derrick	L. BRENNAN	6			
Floor	F. HARDISTY	8			
Floor	W.M. HUNTER	6			
Motor	J. DOIGDE	6			
Mechanic					
Extra					
Injuries:					
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
2802	7 1/2	X55B	3 1/4	30202	40	50	702	57 1/2				10220
MUD: 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives: 700 gal. WEIGHT: 9.0 9.0 9.0 9.0 VISCOSITY: 60 58 59 58 GEL: 650 650 650 650 No. 1 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 No. 2 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 W.L. 74 F.C. 72 pH. 80												
At Surveys Degree: MOTOR HOURS: Next Oil Change:												
Slip: Feet or: Cut: Feet Left on Spool: Next Slip:												

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
2880	7 1/2	X55B	3 1/4	30202	40	50	775	17 1/2				60220
MUD: 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives: DEL 1000 lbs. WEIGHT: 9.8 9.9 9.9 9.9 VISCOSITY: 54 65 75 80 GEL: 650 650 650 650 No. 1 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 No. 2 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 W.L. 7.6 F.C. 72 pH. 8												
At Surveys Degree: MOTOR HOURS: Next Oil Change:												
Slip: Feet or: Cut: Feet Left on Spool: Next Slip:												

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
2953	7 1/2	X55B	3 1/4	30202	40	44	845	75 1/2				60220
MUD: 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives: 921 #2000 WEIGHT: 9.0 9.0 9.1 9.1 VISCOSITY: 80 58 60 60 GEL: 650 650 650 650 No. 1 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 No. 2 Pressure: 50 50 50 50 Model S.P.M.: 50 50 50 50 W.L. 7.6 F.C. 72 pH. 8												
At Surveys Degree: MOTOR HOURS: Next Oil Change:												
Slip: Feet or: Cut: Feet Left on Spool: Next Slip:												

REMARKS	Time		
	Start	Stop	Interval
DRILL	12:00	7:30	2 1/2
Big SER & BOPS	2:30	2:45	1/4
DRILL	2:45	8:00	5 1/4
Company Time			
Cont'r Time			
DRILL	8:00	8:15	1/4
Big SER & CHK BOPS	8:15	9:00	1/4
DRILL 7 1/2 hole	9:00	1:00	7
Company Time			
Cont'r Time			
DRILL	4:00	7:00	3
Big SER & CHK BOPS	7:00	7:15	1/4
DRILL	7:15	12:00	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 _____

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. 12 LOCATION Horn RANDEL RTAL KARBUT S-05 AREA For Simpson DATE March 9 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		2547	95	2642	7 3/4	84	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller J. ROBINSON		157742											
Derrick R. HARMAN		RIG SERV - CHECK BOPs											
Floor S. P. ROBERTS		DRILL											
Floor K. WILLIAMS													
Floor													
Motor M. S. S. S. S.													
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		2642	80	2722	7 3/4	84	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller H. DITTMER		208946											
Derrick L. BEZEMAN		RIG SERV & BOPs CHECK											
Floor F. HARDISTY		DRILL											
Floor W. M. HUNTER		CIRC TO SURVEY											
Floor		SURVEY 2671-14											
Motor T. DOIG DE		DRILL											
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		2722	80	2802	7 3/4	84	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller A. NOREN		2185.04											
Derrick J. LAPPENBUSH		DRILL 7 3/8" HOLE											
Floor W. LAPPENBUSH		RIG SERVICE & B.O.P.s											
Floor W. WHITE		DRILL											
Floor													
Motor F. LAPPENBUSH													
Mechanic													
Extra													
Injuries:													
Fires:													

REMARKS	Time		
	Start	Stop	Interval
RIG SERV - CHECK BOPs	12:00	12:15	1/4
DRILL	12:15	12:30	1/4
DRILL	8:00	8:30	1/2
RIG SERV & BOPs CHECK	8:30	8:45	1/4
DRILL	8:45	10:15	2
CIRC TO SURVEY	10:15	11:00	1/4
SURVEY 2671-14	11:00	11:15	1/4
DRILL	11:15	4:00	4 3/4
DRILL 7 3/8" HOLE	4:00	5:00	1
RIG SERVICE & B.O.P.s	5:00	5:15	1/4
DRILL	5:15	12:00	6 3/4

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. LOCATION HORN RANGER ETAL EBBUS S-05 AREA FOR SIMPSON DATE MARCH 8, 1971

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Standards
Specify actual hours worked		2257	106	2343	7 1/2	80	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	21 6 2 1/2
Driller	John Robinson	8												
Derrick	Arms HERMAN	8												
Floor	SPERL HOFF	8												
Floor	WILLIAM	8												
Floor														
Motor	NEAM SAUARD	8												
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	Standards
Specify actual hours worked		2363	97	2460	7 3/4	82 m	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	21 6 2 1/2
Driller	H.M. DITTMER	12												
Derrick	L. BREMAN	12												
Floor	F. HARDISTY	12												
Floor	W.M. HUNTER	12												
Floor														
Motor	J. DOIG DE	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	Standards
Specify actual hours worked		2460	87	2547	7 3/4	83	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	21 6 2 1/2
Driller	J. Robinson	4												
Derrick	A. HERMAN	4												
Floor	T. SPERL HOFF	4												
Floor	K. WILLIAM	4												
Floor														
Motor	N. SAUARD	4												
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
DRILL	12 ⁰⁰	12 ⁴⁵	3/4
Rig SERVO & CHECK BOPS	12 ⁴⁵	1 ⁰⁰	1/4
SURVEY @ 2269	1 ⁰⁰	1 ¹⁵	1/4
DRILL	1 ¹⁵	8 ⁰⁰	6 3/4
Company Time	8 ⁰⁰	10 ⁰⁰	2
DRILL	10 ⁰⁰	10 ⁴⁵	1/4
Rig SERVO & BOPS CHECK	10 ⁴⁵	4 ⁰⁰	5 3/4
DRILL			
Company Time	4 ⁰⁰	6 ¹⁵	2 1/4
Rig SERVO & BOPS CHECK	6 ¹⁵	6 ³⁰	1/4
DRILL	6 ³⁰	12 ⁰⁰	5 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 _____

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAY WORK RECORD

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

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	Company Time		
					1965	115	2080	5	68	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	1550	12"	12"	12"
Driller	J. Robinson	8																		
Derrick	A. HERMAN	8																		
Floor	K. Williams	8																		
Floor	S. P. Hoff	8																		
Floor																				
Motor	N. Savard	8																		
Mechanic																				
Extra																				
Injuries:																				
Fires:																				
MUD																				
WEIGHT																				
VISCOSITY																				
GEL																				
PUMPS																				
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No. 78																				
Model																				
No. 79																				
Model																				
No. 80																				
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No. 85																				
Model																				
No. 86																				
Model																				
No. 87																				
Model																				
No. 88																				
Model																				

Totco Ring on Bit No. _____ D.P. Calipered 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. 10 LOCATION Horn R. CANAL R. A. R. B. B. V. T. S. O. S. AREA Port Simpson DATE Mar 6 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	S. ROBINSON	920	410	1530	7 1/4	57	15	6	2 1/4					15
Derrick	A. ARMSTRONG													
Floor	T. SPILHOF													
Floor	K. WILLIAMS													
Floor														
Motor	N. SAVARD													
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							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	H.M. DITMER	1330	370	1700	7 1/2	62	15	6	2 3/4					26
Derrick	L. BREMAN													
Floor	F. HARDISTY													
Floor	W.M. HUNTER													
Motor	J. DOIG DE													
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. ROBINSON	1700	265	1965	6 3/4	65	15	6	2 1/4					24
Derrick	A. ARMSTRONG													
Floor	K. WILLIAMS													
Floor	T. SPILHOF													
Motor	N. SAVARD													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
Drill 7 1/4 Hole	12:00	2:00	2 1/4
Survey @ 1093	2:45	3:00	1/4
Drill	3:00	3:30	1/2
Rig Serv + Check BOP	3:45	3:55	1/4
Drill	3:55	7:15	3 1/2
Survey @ 1313	7:15	7:20	1/4
Drill	7:20	8:00	1/2
Company Time			
Cont'r Time			
Rig Serv to BOP	8:00	8:15	1/4
Drill	8:15	11:15	3
Survey 1501 - 1/2	11:15	11:30	1/4
Drill	11:30	4:00	2 1/2
Company Time			
Cont'r Time			
Drill	4:00	4:30	1/2
Survey 1720 - 1	4:30	4:45	1/4
Rig Serv to BOP	4:45	5:00	1/4
Drill	5:00	7:00	2 1/4
Survey @ 1815	7:00	8:00	1 1/4
Drill	8:00	10:00	2
Survey @ 1908 (Miss Run)	10:00	10:15	1/4
Drill	10:15	11:00	3/4
Survey @ 1940	11:00	11:15	1/4
Drill	11:15	12:00	3/4
Company Time			
Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 R.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. 12 LOCATION HOEN R CANADA ST. BY BRADST. J-55 AREA FT. SIMPSON DATE MARCH 5, 1971

Tour — Midnight - 8 a.m.
Specify actual hours worked Hrs.
Driller T. Robinson 8
Derrick A. HERMAN 8
Floor R. WILLIAMS 8
Floor T. SPIELHOFF 8
Motor N. SAURD 8
Mechanic
Extra
Injuries:
Fires:

Tour — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.
Driller H. M. Dittmer 12
Derrick Len. Breman 12
Floor Fred Handley 12
Floor Wm. Hunter 12
Motor Jim Deigde 12
Mechanic
Extra
Injuries:
Fires:

Tour — 4 p.m. to Midnight
Specify actual hours worked Hrs.
Driller S. Robinson 4
Derrick A. HERMAN 4
Floor T. SPIELHOFF 4
Floor R. WILLIAMS 4
Motor N. SAURD 4
Mechanic
Extra
Injuries:
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	Singles									
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives WEIGHT VISCOSITY GEL													At Surveys Degree	MOTOR HOURS	Next Oil Change						
PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General													Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
W.L. F.C. pH.																					
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	Singles									
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives WEIGHT VISCOSITY GEL													At Surveys Degree	MOTOR HOURS	Next Oil Change						
PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General													Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
W.L. F.C. pH.																					
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	Singles									
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives WEIGHT VISCOSITY GEL													At Surveys Degree	MOTOR HOURS	Next Oil Change						
PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General													Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet Cut	Feet Left on Spool	Next Slip
W.L. F.C. pH.																					

REMARKS	Start	Stop	Interval
Re Seal	12 ⁰⁰	12 ¹⁵	1/4
NIPPLE UP	12 ¹⁵	2 ¹⁵	2
DRILL MOUTH HOLE	2 ¹⁵	6 ¹⁵	4
PRESSURE BLIND RAMS TO 1000'	6 ¹⁵	6 ⁴⁵	1/2
LAY DOWN 7" DRILL COLLARS	6 ⁴⁵	8 ⁰⁰	1 1/4
Company Time		Cont'r Time	
Pick up 9 collar and Run in Hole & Lay Down Joints of 4" Pipe	10 ⁰⁰	10 ¹⁵	1/4
OK	10 ¹⁵	10 ³⁰	1/4
APRES PIPE RAM 12 ⁰⁰ OK	10 ³⁰	10 ⁴⁵	1/4
Pres Hydril & manifold	10 ⁴⁵	12 ⁴⁵	2
DRILL OUT FLOAT & SHOE	12 ⁴⁵	4 ⁰⁰	3 1/4
Clean TANKS & JACK RIG & mix mud			
Company Time		Cont'r Time	
JACK RIG	4 ⁰⁰	5 ⁰⁰	1
RIG SEEN & motor shut off	5 ⁰⁰	5 ¹⁵	1/4
DRILL	5 ¹⁵	7 ⁴⁵	2 1/2
Survey 692-1/2	7 ⁴⁵	8 ⁰⁵	1/4
Seal	8 ⁰⁰	11 ⁰⁰	3 1/2
Seal	11 ⁰⁰	11 ⁴⁵	1/4
Drill	11 ⁴⁵	12 ⁰⁰	1/4
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 _____

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAY WORK RECORD

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

RIG No. 13 LOCATION HORN SCANDLER RT AL CORBUTT I-05 AREA FOOT Simpson DATE MAY 4 19 71

Tour — Midnigh. 8 a.m.	
Specify actual hours worked	Hrs.
Driller J. ROBINSON	8
Derrick A. HERMAN	8
Floor K. WILLIAMS	8
Floor T. SPEER	8
Floor	
Motor N. SAWARD	8
Mechanic	
Extra	
Injuries:	
Fires:	

[illegible][illegible]

Tour — 8 a.m. to 4 p.m.		
Specify across	Hours worked	Mrs.
Driller	Jim Dillmer	12
Derrick	Len Berman	12
Floor	Fred Hadisty	12
Floor	Wm Hunter	12
Motor	Jim Deigle	12
Mechanic		
Extra		

Injuries:

Fires:

BITS	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Singles	
	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
	No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
PUMPS	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
													2619
													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												
	VISCOSITY												
GEL													
PUMPS	No. 1	Pressure											Ft. Up On Kelly
	Model	S.P.M.											16
	Liner Size												TOTAL
	No. 2	Pressure											
	Model	S.P.M.											
PUMPS	Liner												
	General												
PUMPS	No. 1	Pressure	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip		
	No. 2	Pressure											
PUMPS	Model	S.P.M.											
	Liner												

Run 15 ft + hanging 1/4 of 8 5/8 - 24" - 7" - 555 surface size
Davis flat collar + guide shoe + 1 centralizer: Total of 522.3 lb
handed @ 505' 1/4 B. Cemented by BS w/ 316 sac Portland
cement + 29.0 cc/cc. Plug down @ 11 1/2 AM March 4.
Good cement returns

Tour — 4 p.m. to Midnight		
Specify actual hours worked		Hours
Driller J ROBINSON		4
Derrick A HERMAN		4
Floor K WILLIAMS		4
Floor T SPRELOFF		4
Floor		
Motor XI SIVARY		4
Mechanic		
Extra		
Injuries:		
Fires:		

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	Singles		
BITS	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.		
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives			At Surveys Degree		MOTOR HOURS		Next Oil Change	Fr. Up On Kelly	
WEIGHT											1			TOTAL	
VISCOSITY											2				
GEL											3				
PUMPS	No. 1	Pressure									4				
	Model	S.P.M.									5				
		Liner Size													
	No. 2	Pressure													
Model		S.P.M.													
						Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet c.	Cut	Feet Left on Spool	Next Slip
						General									

[illegible]

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

Total Contractor Time _____ Hrs.
Total Company Time _____ Hrs.

Toolpusher ...
Approved by

10
R. Jones

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. 12 LOCATION HORN 2 CANDLE ET AL. EARTH JOSS AREA (see Simpson) DATE MAR 3 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	J Robinson	79	210	289	6 3/4	45	3	7	2 1/2					
Derrick	A HARMAN													
Floor	T SPIELHOF													
Floor	K WILLIAMS													
Floor														
Motor	XI SAUARD													
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							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	Wm DITMER	289	117	406	7	47m	3	7	2 1/2					
Derrick	LEN BREMAN													
Floor	FRED HARDISTY													
Floor	Wm HUNTER													
Motor	Jim Deigde													
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 Robinson	406	79	485	3 1/4	47	3	7	2 1/2					
Derrick	A HARMAN													
Floor	K WILLIAM													
Floor	T SPIELHOF													
Floor														
Motor	XI SAUARD													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
DRILL	12:00	1:00	1
RIG SERV	1:00	1:15	1/4
SURVEY 110	1:15	1:30	1/4
DRILL	1:30	1:45	3/4
SURVEY 194 (MISSISSIPPI)	1:45	2:00	1/4
DRILL	2:00	2:15	3/4
SURVEY 221	2:15	2:30	1/4
DRILL	2:30	2:45	1 1/2
SURVEY 282	2:45	3:00	1/4
DRILL	3:00	3:15	1/4
DRILL	3:15	3:30	1
SURVEY	3:30	3:45	1/4
DRILL	3:45	4:00	1/4
DRILL	4:00	4:15	1/4
SURVEY	4:15	4:30	1/4
DRILL	4:30	4:45	1/4
SURVEY	4:45	5:00	1/4
DRILL	5:00	5:15	1/4
SURVEY	5:15	5:30	1/4
DRILL	5:30	5:45	1/4
SURVEY	5:45	6:00	1/4
DRILL	6:00	6:15	1/4
SURVEY	6:15	6:30	1/4
DRILL	6:30	6:45	1/4
SURVEY	6:45	7:00	1/4
DRILL	7:00	7:15	1/4
SURVEY	7:15	7:30	1/4
DRILL	7:30	7:45	1/4
SURVEY	7:45	8:00	1/4
DRILL	8:00	8:15	1/4
SURVEY	8:15	8:30	1/4
DRILL	8:30	8:45	1/4
SURVEY	8:45	9:00	1/4
DRILL	9:00	9:15	1/4
SURVEY	9:15	9:30	1/4
DRILL	9:30	9:45	1/4
SURVEY	9:45	10:00	1/4
DRILL	10:00	10:15	1/4
SURVEY	10:15	10:30	1/4
DRILL	10:30	10:45	1/4
SURVEY	10:45	11:00	1/4
DRILL	11:00	11:15	1/4
SURVEY	11:15	11:30	1/4
DRILL	11:30	11:45	1/4
SURVEY	11:45	12:00	1/4

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. 12 LOCATION HORN R. CONTROL AREA BRUIT S-05 AREA Fort Simpson DATE MARCH 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: Hrs.		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	H. NUREN													
Derrick	J. LAPPENBUSH													
Floor	W. LAPPENBUSH													
Floor	W. WHITC													
Floor														
Motor	F. LAPPENBUSH													
Mechanic														
Extra														
Injuries:														
Fires:														

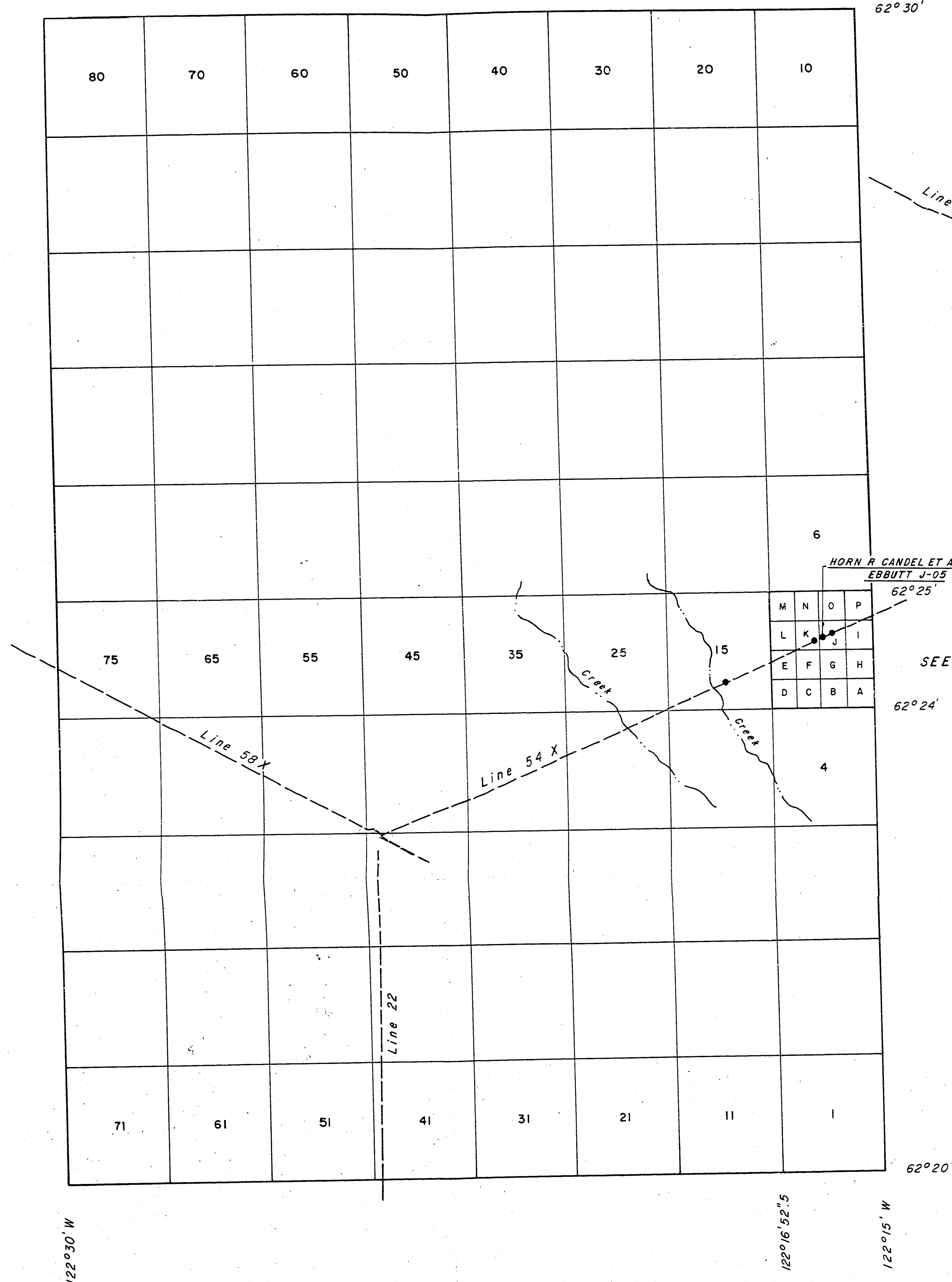
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked: Hrs.		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	John Robinson													
Derrick	Mike Herman													
Floor	Ken Williams													
Floor	Ed Spillholz													
Floor														
Motor	Norman Souder													
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: Hrs.		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	Jim Pittner													
Derrick	Jim Brennan													
Floor	Fred Hardisty													
Floor	Wm Hunt													
Floor														
Motor	Jim Doig DE													
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS	Time		
	Start	Stop	Interval
PREPARE TO Dig RATHOLE	12:00	1:30	1 1/2
Dig RATHOLE	1:30	3:00	2
W.O. WATER	3:30	4:30	1
Dig RATHOLE	4:30	5:30	1
W.O. WATER	5:30	6:45	1 1/4
Dig RATHOLE	6:45	7:45	1
W.O. WATER	7:45	8:00	1/4
Company Time			
Cont'r Time			
WAIT ON WATER	8:00	9:00	1
Rig SER	9:00	9:15	1/4
Dig RAT HOLE	9:15	9:40	2 1/4
Company Time			
Cont'r Time			
Rig SER	4:00	4:15	1/4
Dig RAT HOLE	4:15	5:00	3/4
Mix mud to spud	5:00	5:30	3
DRILL 12 1/4 HOLE	8:00	11:30	3 1/2
SURVEY	11:30	11:45	1/4
DRILL 12 1/4 HOLE	11:45	12:00	1/4
Company Time			
Cont'r Time			
SPUNDED AT 8:00 PM			
Company Time			
Cont'r Time			

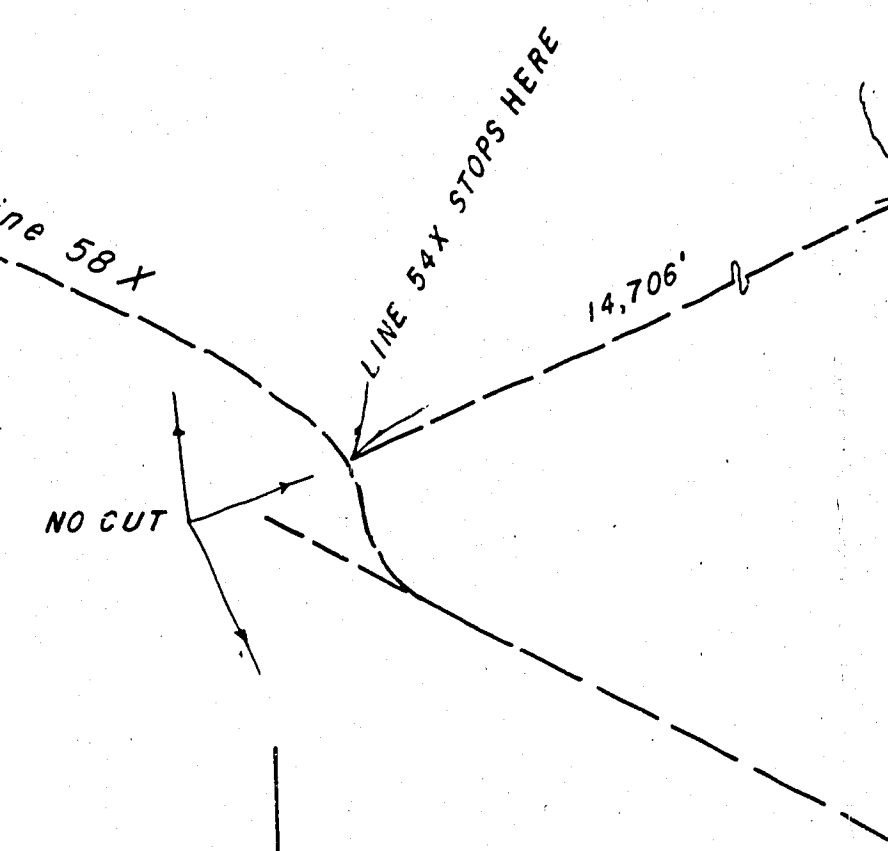
Totco Ring on Bit No. _____ D.P. Caliper Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

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



NOTE : Relative to Seismic information supplied by client.

DETAIL NOT TO SCALE



No shot point identification tags could be located in this area.
Location of shot point No. 205 relative to shot holes found in the vicinity of creeks crossing line 54 X.

Note : Well is to be drilled at Shot Point No. 205, Line 54 X.

HORN RIVER RESOURCES LTD. **PLAN** **SHOWING SHOT POINT LOCATION OF** **HORN R CANDEL ET AL EBBUTT J-05** **CAMSELL BEND AREA** **NORTHWEST TERRITORIES**

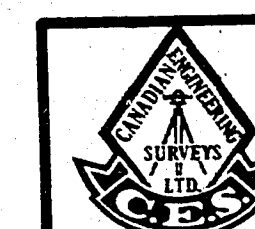
Scale : 1" = 1 mile

GRID AREA : 62°30' N, 122°15' W.

Certified correct, February 3rd, 1971.

C. S. Dazzi
Dominion Land Surveyor

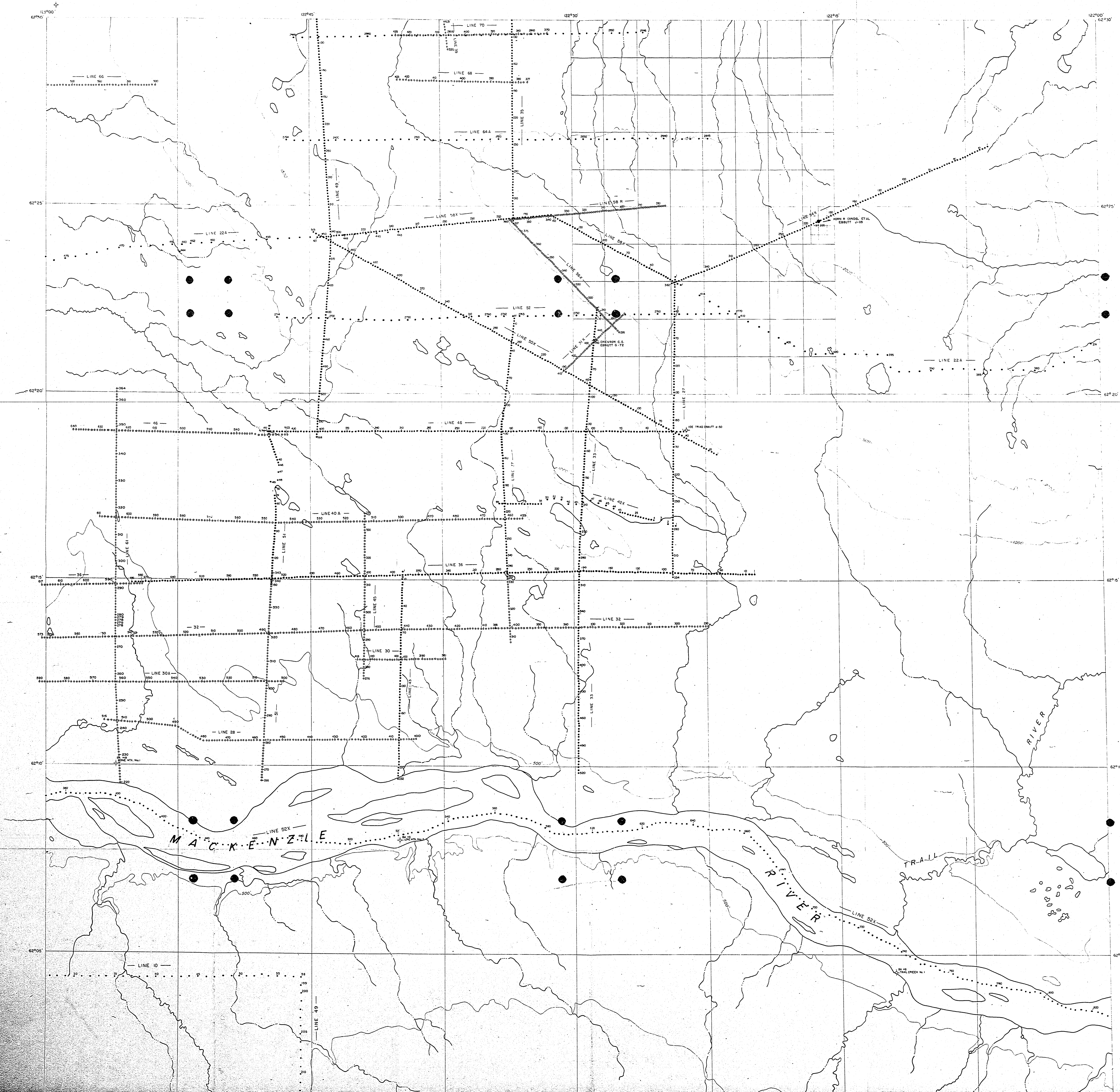
SIGNATURES FOR
HORN RIVER RESOURCES LTD.



CANADIAN ENGINEERING SURVEYS CO. LTD.
EDMONTON ALBERTA

JOB NO. :	C-6491
DATE :	Feb. 3rd /71
DRWG. NO. :	6491-M-1

N.T.S. 95-J



NOTE FOR INDEX MAP SEE F-6797-E-1

REVISIONS

CANADIAN DELHI OIL LTD.
CALGARY ALBERTA