

Drilling Authority No. 304

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

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

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

Name and number of well UOHL TROUT RIVER O-80
 Location: Unit O Section 80 Grid 60° 50' N. 120° 15' W
 Latitude 60° 49' 46" N. Longitude 120° 23' 50" W.
 From Established Reference Marker Shot point 78 line 1-AJ of Union Oil Company of Canada
 Universal Well Location Reference Ltd. Seismic Survey of 1966
60.82945 N. Lat. 120.43056
 Elevation: Ground 1392 (Est.) K.B. 1405 (Est.) feet above sea-level.
 Well is expected to produce from Slave Point formation at a depth
 of about 3670 feet. Expected total final depth 4300
 Area assigned to well (for Oil Conservation Engineer's use only)

Permit No. Lease No. NWT#52-65 Acreage 11.710 Acres

Permittee, licensee, or lessee Union Oil Company of Canada Limited

Exploratory Licence No. 1180

Surface owned by Crown or Crown
 (If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. <u>10 3/4</u>	<u>40.5</u>	<u>J-55</u>	<u>New</u>	<u>450'</u>	<u>300</u>
2. <u>5 1/2</u>	<u>14.0</u>	<u>J-55</u>	<u>New</u>	<u>4300'</u>	<u>300' above any</u>
3.					<u>productive zone.</u>
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. Surface casing to control
surface water. Blow out preventers will be used to control high pressure
oil and/or gas.

Well will be drilled with Rotary Rig No. 1 by Cascade Drilling Co. Ltd.
 (Drilling Contractor or company)

5112 - 3 Street S.W., Calgary, Alberta.

Responsible agent of applicant:— Contractor's Business Licence No. 18178

At well C. M. Reid At registered office E. W. Unick

Address 709 - 8th Ave. S.W. Calgary Address 709 - 8th Avenue S.W. Calgary

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

Dated at Calgary, this 7th day of February, 1968

Signed by [Signature] Company Union Oil Company of Canada Limited

Title Operations Superintendent Operator's Licence No. 1180

(For Resource Management Division use only)

APPROVED

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

The Company will submit to this office, on the day of work,
the latest report received in radio on the progress of the well.

Dated 11th February, 1968 Oil Conservation Engineer [Signature]

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

60° 50'

U.O.H.L.

TROUT RIVER

O-80

Lat. 60° 49' 46" N.

Long. 120° 28' 50" W.

1-D-K

F 15

File No.....
Drilling Authority No. 38.....



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. 334, concerning UOHL TROUT RIVER 0-80

(Name and Number of Well)

The following amendments are required:

Alter expected total depth to 4500'

Reasons for the amendments: The Precambrian formation was encountered 200'
lower than anticipated.

Dated at Calgary, this 15th day of March, 1968.

Signed by

Title Operations Superintendent

Company Union Oil Holdings Limited

(For Resource Management Division use only)

APPROVED

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

Date 18th March, 1968

Oil Conservation Engineer

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



File No. 304
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well UOHL TROUT RIVER O-80
Location: Unit O Section 80 Grid 60° 50' N. 120° 15' W.
Latitude 60° 49' 46" N. Longitude 120° 28' 50" W.
From Established Reference Marker Sharp Point 78 Line 1-AJ of Union Oil Company of Canada - 1966
Universal Well Location Reference 60.82945 N. Lat. 120.48056
Permit No. Lease No. NWT 652-65

Union Oil Company of Canada Limited
(Permitter, Licensee, Lessee)

Date of commencement of proposed program March 15, 1968

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil
Gas at Nil
Water at 400 Flowed at 150 BPH 22 psi Surface Pressure 1500 PPM NaCl
Total Depth 4500 Date of last operations March 17, 1968
Present condition of well Abandoned, verbal approval to abandon obtained March 15, 1968

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 10 3/4	40.5	452	467	306 + 2 1/2% CaCl ₂	Nil
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	4500-4250	Cambrian to Middle Devonian	120	Plus 3% Retarder
2	520 - 420	Surface Casing	65	Plus 3% CaCl ₂
3		Surface	5	3 feet down. In
				Rat and Mouse Hole.
				Welded on steel plate
				w/well identifier

The following logs have been run IES, S-GR-Cal

Other operations proposed.

Operations to be carried out by Cascade Drilling Co. Ltd. Contractor Licence No. 18178

Address 5112 - 3 Street S.W., Calgary, Alberta. Address.

Responsible Agent in field C.M. Reid

Dated at Calgary, this 20 Day of March 1968

Signed by [Signature] Company Union Oil Company of Canada Limited

Title Operations Superintendent Operator's Exploratory Licence No. 1180

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms
on the 15th of March 1968

Dated 21st March 1968

[Signature] Oil Conservation Engineer

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

Drilling Authority No. 304
Date Issued 2/12/68

WELL COMPLETION DATA

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

Well name and number..... UOHL Trout River O-80

Permit No. _____ Lease No. NWT #52-65

Union Oil Company of Canada Limited Exploratory Licence No. 1180

Union Oil Holdings Limited (Operator) Co. of Canada

Location: Unit 0 Section 80 Grid 60° 50'N. 120° 15'W

Latitude 60° 49' 46" N Longitude 120° 28' 50" W

From Established Reference Marker: Shot Point 78 Line 1-AJ of Union Oil Company of
Canada Limited - Seismic Survey of 1966.
Universal Well Location Reference: 60.82945 N. Lat. 120.48056 W. Long.

	DATE	DEPTH
Spudded.....	2/27/68	-
Suspended.....		
Resumed Operations.....		
Finished Drilling.....	3/15/68	4500
Deepened.....		
Complete (gas/oil).....		
Abandoned.....	3/17/68	4500
Rig released.....	3/17/68	4500

Pool(s).....

Interval(s) open to production.....-.....

Elevation: Gr. 1392 K.B. 1405

Rig No. One

Drilling Contractor Cascade Drilling Company Ltd.

Contractor's Business Licence No.18178.....

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at: -	Sacks of Cement and Additives
1. 10 3/4	J-55	40.5	15.437 OK	167 450 OK	306 + 2 1/2% CaCl ₂
2.					
3.					
4.					
5.					
6.					

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICE	
Date	From	To	Remarks	Date	From	To	Remarks	Date	From
3/17/68	4500	4250	125 sacks + 3% Retarder						
3/17/68	520	420	65 sacks + 3% CaCl ₂ Felt at 415'						
3/17/68	-	Surface	Placed 5 sack plug at surface, welded on plate & well marker.						

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	LS.L Mins.	F.S.L Mins.	LS.L.B.H.P.	F.S.L.B.H.P.	LF.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	Remarks
1	3/16/68	Keg River	4315	4390	60	60	60	1753	1660	42	90	2378	2412	Re

ANALYSIS						PRESENT STATUS OF WELL			Company Un Signed by Title Date Forms Conse
Lab. No.	Sample	From	To	Source	Remarks	Oil		(Interval)	
						Gas		(Interval)	
						Dry			
						Susp.			

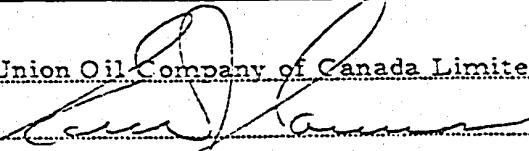
LOG RECORD (Plug, Squeeze, etc.)		PERFORATING RECORD (Bullet Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
4250	125 saxes + 3% Retarder								
420	65 saxes + 3% CaCl ₂ Felt at 415'								
Surface	Placed 5 sack plug at surface, welded on plate & well marker.								

DRILL STEM TESTS

Formation	From	To	V.O. Mins.	LSI Mins.	F.S.I Mins.	LSI.B.H.P.	F.S.I.B.H.P.	LF.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
Keg Rive.	4315	4390	60	60	60	1753	1660	42	90	2378	2412	Rec. 60' water. 90' mud.

ANALYSIS					PRESENT STATUS OF WELL		
Sample	From	To	Source	Remarks	Oil	(Interval)	
					Gas	(Interval)	
					Dry		
					Susp.		

Company Union Oil Company of Canada Limited

Signed by 

Title Operations Superintendent.

Date April 29, 1968.

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



File No.
Drilling Authority No. 304

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Calgary, Alberta Date: 13th February 1969

TO: The Oil Conservation Engineer:

RE: JOHL Trout River O-80

Location: 60°49'46"; 120°28'50" Status: Abandoned

This location was inspected by the undersigned on 13th February 1969

The location is in satisfactory/~~unsatisfactory~~ condition.

The following items require attention:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Other comments and recommendations: (Include Map, if necessary for clarity)

Inspected from the air. Light cover of snow on location. Location in satisfactory condition.

Inspected by [Signature]

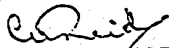
WELL HISTORY REPORT
U.O.H.L. TROUT RIVER 0-80

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REPORT COMPILED BY:


C. M. Reid
Drilling Engineer
April 1, 1968

WELL HISTORY REPORT

SECTION 1 - SUMMARY OF WELL DATA

- (a) Well name and number: U.O.H.L. Trout River 0-80
- (b) Permittee, Licencee or Lessee: ^{Company of Canada} Union Oil Holdings
Limited
- (c) Name of operator: Union Oil Company of Canada Limited
- (d) Location:
- (i) Located: Unit 0, Section 80, Grid 60° 50' x
120° 15'
Latitude: 60° 49' 46" N
Longitude: 120° 28' 50" W
- (ii) Universal Well Location Ref:
60.82945 N. Lat.
120.48056 W. Long.
- (iii) Unique Well Identifier:
3000806050 120 150
- (e) Co-ordinates: On S.P. 78, Line 1-AJ of Union Oil
Company of Canada Limited, Seismic
survey of 1966.
- (f) Lease No.: N.W.T. #52-65
- (g) Drilling Contractor: Cascade Oilwell Drilling Co. Ltd.
Rig No. 1
Type: National 50 Drawworks
Lee C. Moore 131' Mast
- (h) Drilling Authority: No. 304
Issued: 12th February 1968
Amended: 18th March 1968
- (i) Classification: Wildcat
- (j) Elevations: Ground - 1392'
K.B. - 1405
- (k) Spudded: 6:45 A.M. February 27, 1968
- (l) Completed Drilling: 8:00 A.M. March 15, 1968

- (m) Total Depth: E. Log - 4498' Driller - 4500'
- (n) Well Status: Dry and Abandoned
- (o) Rig Released: 4:00 P.M. March 17th, 1968
- (p) Hole Size: 15" to 467' 8 3/4" to T.D.
- (q) Casing: 10 3/4" to 450' with 306 sacks cement + 2 1/2% CaCl₂

SECTION 11 GEOLOGICAL SUMMARY

(a) Formation Tops

	FROM E. LOG		FROM SAMPLES	
	K.B.	SUBSEA	K.B.	SUBSEA
Wabamun	615	+790		
2nd Limestone	1238	+167		
Jean Marie	2198	-793		
Simpson Shale	2252	-847		
Slave Point	3854	-2449	3860	-2455
Watt Mountain	4091	-2686	4090	-2685
Sulphur Point	4095	-2690	4100	-2695
Keg River	4316	-2911	4320	-2915
Granite Wash	4426	-3021	4430	-3025

(b) Cored Intervals: Nil

(c) Core Description: Nil

SECTION II - GEOLOGICAL SUMMARY - Con't.
(d) SAMPLE DESCRIPTIONS

3600-3610	Shale dark, green, micro micaceous very slightly calcareous.
3610-3620	Shale - as above.
3620-3630	Shale - as above.
3630-3640	Shale dark green - as above.
3640-3650	Shale - as above.
3650-3660	Shale - as above.
3660-3670	Shale - as above.
3670-3680	Shale dark green, fissile, micro micaceous.
3680-3690	Shale - as above.
3690-3700	Shale - as above.
3700-3710	Shale - as above.
3710-3720	Shale - as above.
3720-3730	Shale - as above.
3730-3740	Shale - as above.
3740-3750	Shale - as above.
3750-3760	Shale - as above.
3760-3770	Shale - as above.
3770-3780	Shale - as above.
3780-3790	Shale, dark green, micro-micaceous - fissile.
3790-3800	Shale - as above.
3800-3810	Shale - as above.
3810-3820	Shale - as above.
3820-3830	Shale - dark green, fissile, micro micaceous.
3830-3840	Shale - as above.
3840-3850	Shale dark green - as above. Trace dark brown shale.
3850-3860	Shale dark brownish black.

- 3860-3870 Limestone - medium brown to light grey, very fine crystalline, argillaceous, with slight trace of very fine pin point porosity.
- 3870-3880 Limestone, medium brown, in small part light grey, white, very fine crystalline, in part fine fragmental, argillaceous. Slight trace scattered pin point porosity.
- 3880-3890 Limestone, medium brown, fine fragmental, in part very fine crystalline, slightly argillaceous, scattered trace very poor pin point porosity.
- 3890-3900 Limestone - as above, very argillaceous in part generally dense, tight.
- 3900-3910 Limestone, medium brown - as above.
- 3910-3920 Limestone medium to dark brown, very fine to micro crystalline, in large part fine fragmental, very argillaceous. Trace dark brown shale interbedded.
- 3920-3930 Limestone - as above.
- 3930-3940 Limestone, medium to dark brown, and light brownish white, very fine to micro crystalline, argillaceous, in part fine and medium fragmental, calcarenitic.
- 3940-3950 Limestone - as above.
- 3950-3960 Limestone - as above.
- 3960-3970 Limestone medium to light brown, very fine to micro crystalline, in part very argillaceous fragmental, calcarenitic.
- 3970-3980 Limestone - as above. Trace secondary calcite.
- 3980-3990 Limestone, light brown, very fine to micro crystalline, calcilutite, interbedded lense of medium to light brown, calcarenitic, fine fragmental limestone, argillaceous.
- 3990-4000 Limestone - as above.
- 4000-4010 Limestone light brown, to chalky white, very fine to micro crystalline, calcilutite, in part fine fragmental.
- 4010-4020 Limestone medium to dark brown, fine fragmental, calcarenite, interbedded thin lenses of light brown calcilutite, very argillaceous to shaly in part.
- 4020-4030 Limestone - as above.
- 4030-4040 Limestone light brown, micro crystalline, very fine textured calcilutite, grades to dark brown, argillaceous in part.
- 4040-4050 Limestone medium to dark brown, very fine crystalline, chalky in part, fragmental, very argillaceous in part.

- 4050-4060 Limestone medium to light brown, micro to very fine crystalline, calcilutite.
- 4060-4070 Limestone medium to dark brown, micro crystalline, argillaceous, in part light brown to cream chalky.
- 4070-4080 Limestone 9 as above.
- 4080-4090 Limestone dark brown, very fine to micro crystalline very argillaceous to shaly. Trace dark brown and dark green shale interbedded.
- 4090-4100 Limestone - as above. Fragmental in part, interbedded dark green waxy shale 20%.
- 4100-4110 Limestone cream white chalky, micro crystalline.
- 4110-4120 Limestone cream white chalky, fragmental, micro crystalline.
- 4120-4130 Limestone - as above.
- 4130-4140 Limestone light brown to cream, very fine to micro crystalline, soft chalky, argillaceous.
- 4140-4150 Limestone - as above.
- 4150-4160 Limestone medium to dark brown, fine fragmental, calcarenite, very argillaceous.
- 4160-4170 Limestone - as above.
- 4170-4180 Limestone - as above.
- 4180-4190 Limestone - as above. In part light brown soft, chalky.
- 4190-4200 Limestone - as above. Medium to dark brown, generally a fine to medium calcarenite in an argillaceous calcilutite cementing material.
- 4200-4210 Limestone - as above.
- 4210-4220 Limestone - as above.
- 4220-4230 Limestone - as above.
- 4230-4240 Limestone - as above. Trace brachiopod shells, interbedded thin lenses of dark brown, fine to medium crystalline dolomite.
- 4240-4250 Limestone medium to dark brown, micro crystalline, calcilutite, in part argillaceous calcarenite, interbedded thin lenses of dark brown, fine to medium crystalline dolomite 10%.
- 4250-4260 Limestone - as above. Interbedded thin lenses of dark brown, fine and very fine crystalline dolomite 20%.

- 4260-4270 Limestone, medium to dark brown, in part light brown, chalky, micro crystalline, calcilutite, interbedded dark brown fine and medium crystalline dolomite 30%.
- 4270-4280 Limestone - as above. Dolomite - as above 30%.
- 4280-4290 Limestone, light medium and dark brown, very fine to micro crystalline. Trace dark brown dolomite interbedded, dark green shale 20%.
- 4290-4300 Limestone, medium to dark brown, micro crystalline, in part fine calcarenite fragmental, interbedded dark brown fine crystalline dolomite 10%.
- 4300-4310 Limestone - as above 70%. Dolomite dark brown fine crystalline 30%. Trace light brown micro crystalline dolomite.
- 4310-4320 Dolomite medium to dark brown, fine crystalline, in part fine sucrosic 80%. Interbedded medium brown, micro crystalline limestone 20%.
- 4320-4330 Dolomite medium and dark brown, fine and medium crystalline with scattered poor intercrystalline and very small vuggy porosity.
- 4330-4340 Dolomite, medium to dark brown, fine and medium crystalline, with scattered poor to very poor intercrystalline and trace of small vuggy porosity.
- 4340-4350 Dolomite, as above. Scattered traces of very poor intercrystalline porosity.
- 4350-4360 Dolomite - as above. Slight trace of very poor intercrystalline porosity.
- 4360-4370 Dolomite dark brown, fine crystalline. Trace light brown micro crystalline dolomite.
- 4370-4380 Dolomite - as above 60%. Dolomite medium to light greyish brown, micro crystalline, calcareous, argillaceous in part.
- 4380-4390 Dolomite dark brown, fine and medium crystalline, trace very poor intercrystalline porosity. Interbedded thin lenses of light brown, micro crystalline slightly calcareous dolomite.
- 4390-4400 Dolomite light brown, micro crystalline, dense hard, silty.
- 4400-4410 Dolomite dark medium and light greyish brown micro crystalline, silty, very hard, argillaceous.
- 4410-4420 Dolomite medium to light brown, micro to fine crystalline, silty argillaceous in part.
- 4420-4430 Dolomite - light brown, micro crystalline, silty with rare floating coarse sand grains, in part fine crystalline medium brown dolomite.

- 4430-4440 Dolomite - as above. Trace of coarse grained, round, frosted, dolomitic sandstone. Trace of large granite fragments.
- 4440-4450 Dolomite medium and light brown, fine crystalline, silty 80%, trace of coarse grained, quartz sandstone, very dolomitic, granite fragments, light greenish grey, with occasional pink feldspar fragments.
- 4450-4460 Dolomite medium brown 60%, generally fine crystalline, silty, granite fragments 40% light greenish grey, with rare scattered mica booklets.
- 4460-4470 Granite, light greenish grey, rare pink feldspar.
- 4470-4480 Granite - as above.
- 4480-4490 Granite - as above, white quartz, light greenish grey, small percentage of pink feldspar.
- 4490-4500 Granite - as above.

SECTION III - ENGINEERING SUMMARY

(a) Report of Drill Stem Tests

Formation Tests: By Eastland Testers with Rotary Tool.

D.S.T. No. 1

Interval - 4315' - 4390' in Keg River formation.

A straddle test with T.D. at 4500'.

1 Puff. Fair. ISI 60

VO 60

FSI 60

Blow: Weak

Recovery: 90' of Drilling Mud and 60' of Salt Water.

Bottom Hole Pressures Field Estimate:

IHP 2380 ISIP 1740 IFP 50 FFP 90 FSIP 1660 FHP 2380

B.H. Corrected Pressures:

IHP 2378 ISIP 1753 IFP 42 FFP 90 FSIP 1660 FHP 2412

Bomb @ 4293' K.B. 3/4" B.H.C.

(Charts and pertinent data attached.)

(b) CASING RECORD

10 3/4" Casing Details -

Ran and cemented 15 jts. 437' of 10 3/4" 40.5 lb/ft. J-55 new Mannerman smls. 8 rd. ST&C casing at 450' with 300⁰ sax construction cement plus 2 1/2¹/₂ CaCl₂. Poor cement returns. Cement was 3' below ground level. Cemented to surface with 6 sacks cement plus 2 1/2¹/₂ CaCl₂.
C.I.P. 11:45 P.M. February 28th by HOWCO

Equipment Used: Baker guide shoe
2 centralizers
Halliburton float insert valve

T.G. EASTLAND—testers ltd.

R.R. No. 6 - NORTH EDMONTON, ALBERTA - PHONE 799-3321

SERVICE REPORT

TEST No. One
Date March 16, 1968
Ticket No. 1126

Well Name <u>Union Trout River 0-80</u>				Loc. <u>0-80-60°-50'N 120° 15'W</u>	
Formation Tested <u>Keg River</u>				TOOL-ASSEMBLY	
Interval	<u>4315'</u>	To	<u>4390'</u>	Tail Pipe	<u>110'</u>
First Flow	<u>3</u>	mins.	Initial Shut-in	<u>60</u>	mins.
Second Flow	<u>60</u>	mins.	Final Shut-in	<u>60</u>	mins.
Maximum Formation Temp.			<u>170</u>	°F	
Fluid Cushion			<u>none</u>	Amount	
Total Fluid Recovered			<u>150</u>		
Flow Rate			<u>Mcf/d Pitot Tube w/Water/Merc.</u>	ins.	
Side Static Press. Gauge				psig.	
Fluid Description <u>90' mud, 60' water.</u>					
Remarks <u>Fair air blow on pre-flow. Weak air blow through out test.</u>					
Was tool chased? <u>no</u>					
Did mud level drop? <u>no</u>					
When did mud level drop?					
Started in Hole			<u>10:00pm</u>	Out of Hole <u>6:00am</u>	
Main Hole: Depth			<u>4500'</u>	Size <u>8 3/4"</u>	
Rat Hole: Depth				Size	
Casing: Depth				Size	
Drill Pipe Size			<u>4 1/2"</u>	Weight	
Drill Collar: Size			<u>2 7/8"</u>	I.D. Length <u>400'</u>	
Type of Packer(s)			<u>Conv.</u>	No. of Packers <u>Four</u>	
Size of Packer Rubber			<u>7 3/4"</u>	Witnesses	
Bottom Choke Size			<u>3"</u>	Co. Rep.	
Drilling Fluid Type			<u>Protectomatic</u>	Tester <u>W. J. McKay</u>	
Viscosity			<u>120</u>	Toolpusher <u>E. Rouble</u>	
Weight			<u>10.4</u>	Drlg. Cont. <u>Cascade Drlg. Rig #1</u>	
W.L.			<u>6.4</u>		

PRESSURE DATA

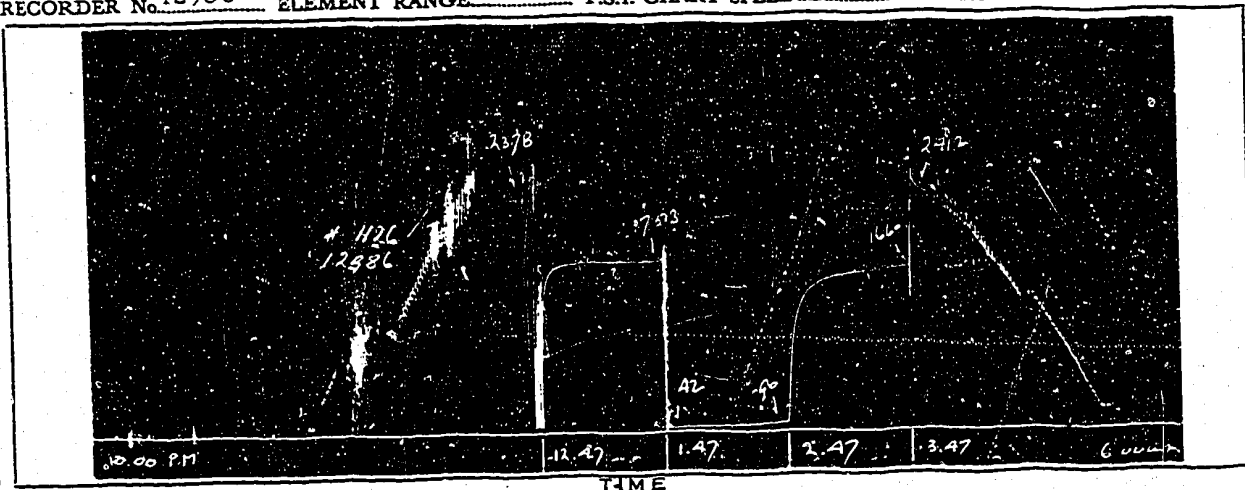
	Field Estimate	Corrected Readings		
Recorder Number		12986	11588	23827N
Recorder Capacity (psig)		4400	4000	6500
Recorder Depth		4293'	4300'	4499'
Recorder Position				
Clock Capacity (hours)		12	12	12
Initial Hydrostatic	2380	2378	Clock Stopped.	2490
Initial Shut-in	1740	1753	No Chart.	---
Initial Flow	50	42		2748
Final Flow	90	90		---
Final Shut-in	1660	1660		---
Final Hydrostatic	2380	2412		2523

T.G. EASTLAND—testers ltd.

TEST No. One
Date March 16, 1968
Ticket No. 1126

WELL NAME UNION TROUT RIVER 0-80

RECORDER No. 12986 ELEMENT RANGE 4400 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 4293'



RECORDER No. 11588 ELEMENT RANGE 4000 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 4300'

CLOCK STOPPED.

NO CHART.

RECORDER No. 23827N ELEMENT RANGE 6500 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 4499'



UNION OIL COMPANY OF CANADA LIMITED

SECTION 111 - ENGINEERING SUMMARY (Cont'd)

(c) BIT RECORD

FIELD Wildcat DISTRICT North West Territories, Trout River

CONTRACTOR Cascade Rig #1 WELL Trout River 0-80

DATE DRILLING STARTED Feb. 27, 1968 COMPLETED March 17/68 ACTUAL Time to reach T.D. 17 Days, 1 1/2 Hrs. = 409 1/2 Hrs.

BIT NO.	MAKE	TYPE	SIZE	DEPTH		FOOT-AGE	BIT HOURS	DRLG. SPEED		SERIAL NO.	COND'N	JETS	Remarks		
				FROM	TO			WT./HRS.	WT./HRS.						
1A	H-W	OSC-3	15"	0	212	212	13½	15½	93224	Water	Cond'n	-			
										8.4/28	3-2-I				
1B	H-W	OSC-3	15"	212	467	255	10½	24	115	92727	Water	Cond'n			
10 3/4" Shoe											8.4/28	3-2-I			
1	H-W	XIG	8 3/4	467	1607	1140	32 3/4	34	80	93721	Water	Cond'n	Jets		
											8.4/28	2-1-I	2-10 1-11		
2	H-W	XIG	8 3/4	1607	2533	925	40	23	75	96672	Water		3-1-I	3-11	Jean Marie; 2198' (Shale)
											8.4/28				
3	H-W	XIG	8 3/4	2533	3490	867	28½	30	75	96641	Water		2-1-I	3-11	(Shale)
											8.4/28				
4	H-W	XIG	8 3/4	3490	3605	215	25½	8½	75	96665	P.M. Milbar			3-20	Large Jets for L.C. fibre
											10.5/55-65		4-3-I		
5	SEC	MAN6J	8 3/4	3605	3900	295	23	13	75	908267	P.M. Milbar				Slave Pt 3854' (Limest.)
											10.5/73		1-2-I	3-11	
6	SEC	MAN6J	8 3/4	3900	4105	205	26½	8	75	908262	P.M. Milbar			2-2-I	(Limest)
											10.5/84			3-11	
7	H-W	XV	8 3/4	4105	4274	169	23½	7	75	93918	P.M. Milbar			3-2-I	3-11 (Limest)
											10.3/62				
8	H-W	HRG7X	8 3/4	4274	4500	226	34½	6½	75	87577	P.M. Milbar			1-2-I	3-11 (Limest)
											10.3/94				
To reach T.D. Non				ROTATING, HRS,				TOTAL		= 257½ Hrs.					
				ROTATING Hrs.						= 152 Hrs.					
				TOTAL Rig Hrs.						= 465½ Hrs.					
				Coring Hrs.						= Nil					
				Testing Hrs.						= 11 Hrs.					
				Logging Hrs.						= 7 Hrs.					
				Sub Total Coring, Testing, Logging						= 18 Hrs.					
				TOTAL NON ROTATING HRS.						= 208 Hrs.					

UNION OIL COMPANY OF CANADA LIMITED

MUD RECORD

WELL: U.O.H.L. Trout River 0-80

LOCATION: Unit: 0, Section 80, Grid. 60° 50' x 120° 15'

DATE	DEPTH	VIS	WT	WL	FC	PH	ADDITIVES
March 2, 1968	1615	28	8.4				Benex
March 8, 1968	3400	48	9.8	10.0	2/32"	8.0	Gel, Milbar, Supercol, Milfiber, C.M.C.
March 8, 1968	3470	57	10.4	7.2	2/32"	8.0	Protecto Magic, Atlosol, Diesel
March 9, 1968	3567	73	10.5	5.0	2/32"	8.0	Gel, C.M.C., Protecto Magic, Diesel
March 12, 1968	4104	70	10.5	9.2	2/32"	8.0	
March 15, 1968	4498	90	10.4	6.4	2/32"	8.0	

SUPPLY AND SERVICE BY: MILCHEM, FT. NELSON

AMOUNT OF MATERIALS USED:

Milbar	79,700 lbs.
Supercol	21,350 lbs.
Milfiber	600 lbs.
Sawdust	500 lbs.
Caustic Soda	200 lbs.
Milw. C.M.C.	450 lbs.
Plaster	350 lbs.
Soda Ash	200 lbs.
Unical	500 lbs.
Atlosol	168 gals.
Benex	100 lbs.
Protecto Magic	147 sacks
X-Cor	14 gals.

III - ENGINEERING SUMMARY (cont'd)

(e) Deviation Record
Instrument used - Totco

Depth (Ft.)	Inclination (°)
60	3/4
90	3/4
126	1/2
157	3/4
184	7/8
212	3/4
240	1/2
290	1/2
350	1/4
412	1/8
467	1/4
650	3/4
814	1/4
999	1/8
1180	1/2
1390	1/8
1637	1/2
1819	1/4
2028	3/4
2209	1/4
2421	3/4
2533	1/8
2838	1
2929	1/2
3204	1/2
3400	3/4
3605	1 1/8
3900	1/4
4105	1/2
4270	3/4
4500	1/8

111 - ENGINEERING SUMMARY (cont'd)

(f) Abandonment Plugs

Plug No. 1

From: 4250' to 4500', 125 sax const. cement
plus 30 lbs. retarder.
C.I.P. 2:45 P.M. March 16th, 1968

Top of Plug: Not felt.

Plug No. 2

From: 420' to 520', 65 sax const. cement plus
3% CaCl_2 .
C.I.P. 2 9:00 P.M. March 16th, 1968

Top of Plug: Felt at 415'

Surface Plug: Cut surface casing 3' below ground.
Placed 5 sack plug at top and welded
on plate and well marker.

Rat hole, Mouse hole: 2 sacks cement placed in
each of rathole and mousehole.

(g) Lost Circulation Zone

Lost Circulation Zone: Estimated from 467' to 600'

Type of Formation: Gravel beds, salt water bearing
sandstone.

Fluid Loss: Estimated at 50 bbls. of drilling
mud. Mut wt. 10.5 p.p.g.

Date: March 8th, 1968

Operation: Loss occurred while killing water flow
coming from the above mentioned zone.
Complete mud circulation regained by
use of Mil fibre in mud slurry.

(h) Blowouts: None

IV - LOGS

<u>Date Run</u>	<u>Intervals</u>	<u>Type of Log</u>
15th March 1968	4497 - 451	Schlum. Induction Electrical Log
15th March 1968	4496 - 451	Schlum. Borehole Compensated Sonic Log

V - ANALYSIS

- (a) Core Analysis - None
- (b) Water Analysis - None
- (c) Gas Analysis - None
- (d) Oil Analysis - None

VI - COMPLETION SUMMARY

- (a) Tubing - None
- (b) Perforations - None
- (c) Cementation Record

Abandonment Plugs

<u>Number:</u>	<u>Date</u>	<u>Position</u>	<u>Related Zones, Intervals</u>	<u>Cement Used, sax.</u>	<u>Depth Felt</u>
1	March 16/68	4250' - 4500' (T.D. = 4500')	Keg River 4304' - 4406'	125	Not Felt
2	March 16/68	420' - 520'	Surface Casing Shoe @ 450'	65	415

- (d) Acidization and Fracturing Record - None
- (e) Back Pressure and Production Tests - None

五、六、七

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

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER C. J. Hall
TOTAL COMPANY TIME 10-24 HRS. APPROVED BY _____

DAY WORK RECORD

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

100

[illegible]

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER Ed. Fankle

TOTAL COMPANY TIME 16 _____ HRS. APPROVED BY _____

Company Limited,

THIS IS 16 DAY ON THIS WELL

DAY WORK RECORD

NOTE-Please show FOOTAGE made while "Control Drilling" as well as HOUSE

REG No. 1 COMPANY Union D.

LOCATION Trent River 0-80 DATE March 1989

[illegible][illegible]

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

B	O	P	Test	Operated	Time	Results
---	---	---	------	----------	------	---------

TOTAL CONTRACTOR TIME _____ HRS

TOOLPUSHER 17442

TOTAL COMPANY TIME _____ HRS

APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CALGARY OFFICE

DAY WORK RECORD

RIG No. 1 COMPANY Union Oil LOCATION Trawl D-80 THIS IS 18 DAY ON THIS WELL DATE March 18 1968

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

Tour - Midnight - 8 a.m.		FROM		FOOTAGE		TO		HRS. ON BOTTOM		WT. DRILL STRING (1000 LBS.)		DRILL COLLARS		FUEL		WATER		DRILL PIPE		STANDS		
Specify Actual Hours Worked		HRS.		4444		56		4495		74		116		196		28		45		43		
DRILLER	Robert Chaput	8		NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	FT. RMD.	HRS.	DEPTH CUT	CONDITION	D. COLLARS	OTHER FT.					
DRILLER	James Fournier	8		8	3/4	3-11			40	75	226		34		Circ.	538.94						
MOTOR	Andrew Witter	8																				
FLOOR	Joe Miazga	8																				
FLOOR	Harry Biew	8																				
MUD				12 MN.	2 A.M.	4 A.M.	6 A.M.	ADDITIVES														
WEIGHT				10.4	10.4	10.4	10.3															
VISCOSITY				90	90	80	94															
GEL																						
P	NO. 1	PRES-SURE	1050	11	11	11																
U	MODEL	S.P.M.	58	11	11	11																
M	250	LINER SIZE	5 1/2	11	11	11	SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP							
P	NO. 2	PRES-SURE																				
S	MODEL	S.P.M.																				
GENERAL																						

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	12:00	1:45	1 3/4
Big Serv	1:45	2:00	1/4
Drill	2:00	3:00	6

Tour - 8 a.m. - 4 p.m.		FROM		FOOTAGE		TO		HRS. ON BOTTOM		WT. DRILL STRING (1000 LBS.)		DRILL COLLARS		FUEL		WATER		DRILL PIPE		STANDS		
Specify Actual Hours Worked		HRS.		4500						116		19		6 1/2		27 1/2		45		43		
DRILLER	CHUCK PALLO	8		NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	FT. RMD.	HRS.	DEPTH CUT	CONDITION	D. COLLARS	OTHER FT.					
DRILLER	CHARLIE BERSEK	8		8	3/4	3-11		87577	40	75	226		34 1/2	4500	1-2-7	538.94						
MOTOR	HENRY REMPEL	8																				
FLOOR	EDWARD STASZ	8																				
FLOOR	WALT TIPTON	8																				
MUD				8 A.M.	10:30 A.M.	12 NOON	2 P.M.	ADDITIVES														
WEIGHT				10.4	10.4			Super Col 1000#														
VISCOSITY				90	120			4500 1/8"														
GEL																						
P	NO. 1	PRES-SURE	1050	1050	6																	
U	MODEL	S.P.M.	58	58	6																	
M	250	LINER SIZE	5 1/2	5 1/2	6	SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP								
P	NO. 2	PRES-SURE																				
S	MODEL	S.P.M.																				
GENERAL																						

REMARKS	TIME		
	START	STOP	INTERVAL
Circ TO LOG	8:00	9:45	1 3/4
SURVEY	9:45	10:00	1/4
HOIST TO LOG	10:00	12:00	2
Big CP SCHLUMBERGER	12:00	12:30	1/2
LOGGING	12:30	4:00	3 1/2

Tour - 4 p.m. - Midnight		FROM		FOOTAGE		TO		HRS. ON BOTTOM		WT. DRILL STRING (1000 LBS.)		DRILL COLLARS		FUEL		WATER		DRILL PIPE		STANDS		
Specify Actual Hours Worked		HRS.		4500						116		19		6 1/2		27 1/2		45		43		
DRILLER	Ken Keillor	8		NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	FT. RMD.	HRS.	DEPTH CUT	CONDITION	D. COLLARS	OTHER FT.					
DRILLER	ANDREW MILLAN	8		8	3/4	3-11			40	75	226		34 1/2			538.94						
MOTOR	DAVE HUGHES	8																				
FLOOR	CHARLES RACHINER	8																				
FLOOR	G. SMITH	8																				
MUD				4 P.M.	6 P.M.	8 P.M.	10 P.M.	ADDITIVES														
WEIGHT																						
VISCOSITY																						
GEL																						
P	NO. 1	PRES-SURE																				
U	MODEL	S.P.M.																				
M	250	LINER SIZE					SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP							
P	NO. 2	PRES-SURE																				
S	MODEL	S.P.M.																				
GENERAL																						

REMARKS	TIME		
	START	STOP	INTERVAL
Logging	4:00	7:00	3
Wait on orders	7:00	8:00	1
Make up test tool	8:00	10:00	2
Run in slow packer	10:00	12:00	2

Co Ring on Bit No. _____ D.P. Colpered Date _____ Results _____ From Pipe Rock _____
 O.P. Test Operated _____ Time _____ Results _____

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER C.H. Kunkle
 TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

RIG No. 1 COMPANY Union Oil LOCATION TROUT 8-80 DATE March 18 1968

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

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>Robert Chapin</u>	8	4304	54	4358	6 1/4	116	19	6 1/2	2 3/4	45			42	
DERRICK <u>Louis Fournier</u>	8													
MOTOR <u>Andrew Witter</u>	8													
FLOOR <u>Joe Miazga</u>	8													
FLOOR <u>Harry Blew</u>	8													
FIREMAN														
EXTRA														
INJURIES														
FIRES														

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	12:00	3:30	3 1/2
Rig Serv	3:30	3:45	1/4
Drill	3:45	5:00	1 1/4
Circ. Sample	5:00	6:30	1 1/2
Drill	6:30	8:00	1 1/2

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>CHUCK PALLO</u>	8	4358	50	4408	7 3/4	116	19	6 1/2	2 3/4	45			42	
DERRICK <u>CHARLIE BERCEK</u>	8													
MOTOR <u>HENRY REMPEL</u>	8													
FLOOR <u>EDWARD SZPESZ</u>	8													
FLOOR <u>WALT TIPTON</u>	8													
FIREMAN														
EXTRA														
INJURIES														
FIRES														

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	8:00	8:30	1/2
RIG SERV - B.O.P. CHECK	8:30	8:45	1/4
Drill	8:45	4:00	7 1/4

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>Ken Keillor</u>	8	4408	36	4444	7 3/4	116	19	6 1/2	2 3/4	45			42	
DERRICK <u>ROBERT MILLER</u>	8													
MOTOR <u>DOUG HUGHES</u>	8													
FLOOR <u>MICHAEL RACHINSKI</u>	8													
FLOOR <u>G. SMITH</u>	8													
FIREMAN														
EXTRA														
INJURIES														
FIRES														

REMARKS	TIME		
	START	STOP	INTERVAL
Drilling	4:00	5:00	1
Rig Serv B.O.P.S	5:00	5:15	1/4
Drilling	5:15	12:00	6 3/4

Bitco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 O.P. Test Operated _____ Time _____ Results _____
 TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER Ed Kettle
 TOTAL COMPANY TIME 24 1/4 HRS. APPROVED BY _____

14 9 55

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

REMARKS	TIME			
	START	STOP	INT	REAL

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results: _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER C. F. Tarkenton

B.O.P. Test-Operated _____ Time _____ Results: _____ TOTAL COMPANY TIME 2-4-61 HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CALGARY OFFICE

DAY WORK RECORD

THIS IS 15 DAY ON THIS WELL

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

RIG No. 1 COMPANY Union Oil LOCATION Tract D-80 DATE March 19 1965

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.			
DRILLER Robert Thayer 8		4101	53	4104	7 1/4	114	19	6 1/2	2 7/8	45			38
DERRICK Lewis Fournier 8													
MOTOR Andrew Witter 8													
FLOOR Joe Miazga 8													
FLOOR Harry Blew 8													
FIREMAN													
EXTRA													
INJURIES													
FIRES													
Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.			
DRILLER CHUCK PALLO 8		4104	16	4120	2 1/4	114	19	6 1/2	2 7/8	45			39
DERRICK CHARLIE BERCIK 8													
MOTOR HENRY BEMPEL 8													
FLOOR EDWARD SZOSZ 8													
FLOOR WALT TIPTON 8													
FIREMAN													
EXTRA													
INJURIES													
FIRES													
Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.			
DRILLER Ken Kuhlman 8		4120	64	4184	7 3/4	114	19	6 1/2	2 7/8	45			40
DERRICK Ralph Kuhlman 8													
MOTOR Owen Hughes 8													
FLOOR Morris Prochowski 8													
FLOOR G. Smith 8													
FIREMAN													
EXTRA													
INJURIES													
FIRES													

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	12:00	1:30	1 1/2
Rig Serv.	1:30	1:45	1/4
Drill	1:45	5:30	3 3/4
Weld on Std. Pipe	5:30	1:00	1/2
Drill	1:00	3:00	2
Drill	8:00	8:15	1/4
RIG SERV B.O.P. CHECK	8:15	8:30	1/4
SURVEY	8:30	8:45	1/4
HOIST	8:45	11:15	2 1/2
CHANGE BITS CLEAN SHUTTER TANK	11:15	11:45	1/2
RUN IN D/COLLARS	11:45	12:00	1/4
SLIP 15' D/LINE	12:00	12:15	1/4
RUN IN	12:15	1:45	1 1/2
BREAK CIRC + CLEAN 5' TO BTM	1:45	2:00	1/4
Drill	2:00	4:00	2
Rig Serv B.O.P.	4:00	4:15	1/4
Drill	4:15	12:00	7 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 CH Kuhlman
 TOTAL COMPANY TIME 20:30 HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CALGARY OFFICE DAY WORK RECORD

THIS IS 13 DAY ON THIS WELL

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

RIG NO. 1 COMPANY Union Oil LOCATION Trest 0-80 DATE March 19 68

Tour - Midnight - 8 a.m.

Specify Actual Hours Worked 8 HRS.

DRILLER Robert Chaput 8

DERRICK Louis Fournier 8

MOTOR Andrew Witter 8

FLOOR Joe Mungo 8

FLOOR Harry Riew 8

FIREMAN

EXTRA

INJURIES

FIRES

FROM 3145 TO 3757

FOOTAGE 109

WT. DRILL STRING (1000 LBS.) 110

DRILL COLLARS NO. 5 O.D. 5 3/4 I.D. 3-11 WGT. 90.8267

FUEL 19 GALS. 6 1/2

WATER 27 1/8

DRILL PIPE 45

STANDS 35

SINGLES

D. COLLARS 538.94

OTHER FT.

C.B. FT.

SUBS. FT.

FT. UP ON KELLY

TOTAL 2757

NEXT SLIP

MUD 12 M.M. 2 A.M. 4 A.M. 6 A.M. ADDITIVES

WEIGHT 10.5 10.5 10.5 10.5

VISCOSITY 67 10 57 60

GEL

PUMP NO. 1 PRES. 675 S.P.M. 58 LINER 5 1/2

NO. 2 PRES. 675 S.P.M. 58 LINER 5 1/2

GENERAL

W.L. 5.6 F.C. 3/2 PH. 8.0

Tour - 8 a.m. - 4 p.m.

Specify Actual Hours Worked 8 HRS.

DRILLER CHUCK PALLO 8

DERRICK CHARLIE BEBICK 8

MOTOR HENRY REMPEL 8

FLOOR EDWARD SZASZ 8

FLOOR WALT TIPTON 8

FIREMAN

EXTRA

INJURIES

FIRES

FROM 3757 TO 3863

FOOTAGE 106

WT. DRILL STRING (1000 LBS.) 110

DRILL COLLARS NO. 19 O.D. 6 1/2 I.D. 2 7/8 WGT. 45

FUEL 19 GALS. 6 1/2

WATER 27 1/8

DRILL PIPE 45

STANDS 36

SINGLES

D. COLLARS 538.94

OTHER FT.

C.B. FT.

SUBS. FT.

FT. UP ON KELLY

TOTAL 3863

NEXT SLIP

MUD 8 A.M. 10 A.M. 12 NOON 2 P.M. ADDITIVES

WEIGHT 10.5 10.5 10.5 10.5

VISCOSITY 5.3 5.3 77 73

GEL

PUMP NO. 1 PRES. 675 S.P.M. 58 LINER 5 1/2

NO. 2 PRES. 675 S.P.M. 58 LINER 5 1/2

GENERAL CHANGED OIL & FILTERS IN NO 3 & 4 C-M

W.L. 6.0 F.C. 3/2 PH. 8.0

Boiler 8 HRS

Tour - 4 p.m. - Midnight

Specify Actual Hours Worked 8 HRS.

DRILLER KEN KELLER 8

DERRICK RALPH MILLAN 8

MOTOR OWEN HUGHES 8

FLOOR MORRIS RACHINSKI 8

FLOOR G. SMITH 8

FIREMAN

EXTRA

INJURIES

FIRES

FROM 3863 TO 3900

FOOTAGE 37

WT. DRILL STRING (1000 LBS.) 110

DRILL COLLARS NO. 19 O.D. 6 1/2 I.D. 2 7/8 WGT. 45

FUEL 19 GALS. 6 1/2

WATER 27 1/8

DRILL PIPE 45

STANDS 36

SINGLES

D. COLLARS 538.94

OTHER FT.

C.B. FT.

SUBS. FT.

FT. UP ON KELLY

TOTAL 3900

NEXT SLIP

MUD 4 P.M. 6 P.M. 8 P.M. 10 P.M. ADDITIVES

WEIGHT 10.5 10.5 10.5 10.5

VISCOSITY 73 74 73

GEL

PUMP NO. 1 PRES. 675 S.P.M. 58 LINER 5 1/2

NO. 2 PRES. 675 S.P.M. 58 LINER 5 1/2

GENERAL

W.L. 6.6 F.C. 3/2 PH. 8.6

Boiler 7 HRS

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	12:00	1:30	1 1/2
Big Serv	1:30	2:45	1 1/4
Drill	2:45	3:00	15
DRILL	8:00	10:15	2 1/4
BIG SERV - B.O.P. CHECK	10:15	12:30	1 1/4
DRILL	12:30	1:00	5 1/2
DRILLING	4:00	4:45	3/4
CIRC SAMPLE 3870'	4:45	5:30	3/4
DRILLING	5:30	6:30	1
Big SER CHECK B.O.P.S.	6:30	6:45	1/4
DRILLING	6:45	9:00	2 1/4
CIR SAMPLE C 3900	9:00	10:15	1 1/4
SURVEY	10:15	10:30	1/4
HIST STRAP COT	10:30	12:00	1 1/2

To 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 _____

473 17 143

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

[illegible]

TOOLPUSHER H. H. H.
APPROVED BY H. H. H.

THIS IS 10 DAY ON THIS WELL

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

RIG No. 1 COMPANY UNION OIL LOCATION TRUST LAKE DATE MARCH 7 19 48

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>KEN KEILLOR</u>	<u>8</u>													
DERRICK <u>RALPH MUKHAN</u>	<u>8</u>													
MOTOR <u>JOHN HUGHES</u>	<u>8</u>													
FLOOR <u>MORRIS KALINSKI</u>	<u>8</u>													
FLOOR <u>G. SMITH</u>	<u>8</u>													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>Robert Chapp</u>	<u>8</u>													
DERRICK <u>Louis Fournier</u>	<u>8</u>													
MOTOR <u>Andrew W. Tier</u>	<u>8</u>													
FLOOR <u>Joe McGee</u>	<u>8</u>													
FLOOR <u>Harry Plow</u>	<u>8</u>													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	BBL.	SIZE	
DRILLER <u>CHUCK PELLO</u>	<u>8</u>													
DERRICK <u>CHARLIE REBICK</u>	<u>8</u>													
MOTOR <u>HENRY KEMPEL</u>	<u>8</u>													
FLOOR <u>EDWARD SZASZ</u>	<u>8</u>													
FLOOR <u>WALT TIPTON</u>	<u>8</u>													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

REMARKS	TIME		
	START	STOP	INTERVAL
<u>Wait on Mud Trucks</u>	<u>12:00</u>	<u>2:00</u>	<u>2</u>
<u>Run in to hole</u>	<u>2:00</u>	<u>4:00</u>	<u>2</u>
<u>Run in to hole</u>	<u>4:00</u>	<u>6:00</u>	<u>2</u>
<u>Wait on Mud</u>	<u>6:00</u>	<u>8:00</u>	<u>2</u>
<u>Mix Mud and Pump</u>	<u>4:00</u>		
<u>Down try to pull off</u>			
<u>Water flow water flow</u>			
<u>Stopped pipe & mix mud</u>	<u>10:30</u>		<u>6 1/2</u>
<u>Run in 10 studs pipe</u>	<u>11:30</u>		<u>1</u>
<u>Bridge @ 1550</u>	<u>12:00</u>		<u>1/2</u>
<u>Circle @ 2500 feet</u>			

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 8 DAY ON THIS WELL

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

RIG No. 1 COMPANY UNIC OIL WELL LOCATION 210 2973 DATE MARCH 5 1945

Tour - Midnight - 5 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS		FUEL	WATER	DRILL PIPE	STANDS	
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	BBLs.	SIZE
DRILLER	KEN KELLOR	2763	210	2973	7 1/4	102	19	6 1/2	2 3/4	45			
DERRICK	HUGH MILLAN												
MOTOR	DW HUGHES												
FLOOR	WILSON KACHINSKI												
FLOOR	SKIL LOCKHART												
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													
Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS		FUEL	WATER	DRILL PIPE	STANDS	
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	BBLs.	SIZE
DRILLER	Robert Chappat	2973	227	3202	4 3/4	101	19	6 1/2	2 3/4	45			
DERRICK	James Fournier												
MOTOR	Andrew Witter												
FLOOR	Joe Mingo												
FLOOR	Harry Plow												
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													
Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS		FUEL	WATER	DRILL PIPE	STANDS	
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	BBLs.	SIZE
DRILLER	CHUCK PALLO	3202	198	3400	6 1/4	110	19	6 1/2	2 3/4	45			
DERRICK	CHARLES BERCIK												
MOTOR	HENRY REMPEL												
FLOOR	EDWARD SZOSZ												
FLOOR	WALT TIPTON												
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													

REMARKS	TIME		
	START	STOP	INTERVAL
Drill	12:00	2:00	2
Run 200 BOPS	2:00	2:15	1/4
Survey	2:15	2:30	1/4
Drilling	2:30	6:00	3 1/2
Survey	6:00	6:15	1/4
Drilling	6:15	7:00	1 3/4
Drill	8:00	8:30	1/2
Rig Serv. BOPS	8:30	8:45	1/4
Drill	8:45	4:00	7 1/4
Survey + Rig Serv.	4:00	4:15	1/4
Drill	4:15	10:30	6 1/4
Survey	10:30	10:45	1/4
Hoist Double Measure	10:45	12:00	1 1/4

Company Limited

CONSERVATION BOARD

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

THIS IS 7 DAY ON THIS WELL

COMPANY

LOCATION

TRAIL Log 0-20 DATE May 19 68

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

[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.

TOOLPUSHER C. L. Lina

TOTAL COMPANY TIME _____ HRS

APPROVED BY _____

DAY WORK RECORD

THIS IS 5 DAY ON THIS WELL

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

RIG No. 1		COMPANY UNION OIL		LOCATION TROUT LAKE 0-80		DATE MAR 2 19 68		REMARKS		TIME		
										START	STOP	INTERVAL
TOUR - Midnight - 8 a.m.												
Specify Actual Hours Worked		MRS.										
DRILLER		CHECK PALLO 8										
DERRICK		CHARLIE BEARIC 8										
MOTOR		HEAVY REMPEL 8										
FLOOR		EDWARD SZASZ 8										
FLOOR		WESLEY Tipton 8										
FLOOR												
FIREMAN												
EXTRA												
INJURIES:												
FIRES:												
TOUR - 8 a.m. - 4 p.m.												
Specify Actual Hours Worked		MRS.										
DRILLER		KEN KESLOR 8										
DERRICK		LOH MULLAN 8										
MOTOR		DAVE HUGHES 8										
FLOOR		MELISSA RACHINSKI 8										
FLOOR		WESLEY Tipton 2										
FLOOR												
FIREMAN												
EXTRA												
INJURIES:												
FIRES:												
TOUR - 4 p.m. - Midnight												
Specify Actual Hours Worked		MRS.										
DRILLER		Robert Chaput 8										
DERRICK		Louis Fournier 8										
MOTOR		Andrew Witter 8										
FLOOR		Giacinto 8										
FLOOR		Harry Blaw 8										
FLOOR												
FIREMAN												
EXTRA												
INJURIES:												
FIRES:												

Tolco Run on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

B.O.P.T. ☒ St. Operated _____ Time _____ Results _____

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

DAY WORK RECORD

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

DATE MARCH 1 19 68

REMARKS	TIME		
	START	STOP	INTERVAL
DRILL	12:00	2:00	2
RIG SERVO	2:00	2:15	1/4
DRILL	2:15	4:30	2 1/4
SURVEY	4:30	4:45	1/4
HOIST	4:45	5:15	1/2
PICK UP START BEAMER + 2	5:15		
D/COLLARS		5:45	1/2
RUN IN	5:45	6:15	1/2
DRILL	6:15	8:00	1 3/4
DRILL	8:00	9:00	1
Rig SER BOPS	9:00	9:15	1/4
DRILL	9:15	10:00	3/4
PUMP MAINTENANCE	10:00	10:15	1/4
DRILL	10:15	11:30	1 1/4
PUMP MAINTENANCE	11:30	12:15	3/4
DRILL	12:15	1:15	1
SURVEY	1:15	1:30	1/4
DRILL	1:30	4:00	2 1/2
Rig SER	4:00	4:15	1/4
Drilling	4:15	5:45	1 1/2
CIR + SURVEY	5:45	6:00	1/4
Drilling	6:00	9:00	3
SURVEY	9:00	9:15	1/4
DRILL	9:15	12:00	2 3/4

TOOL PUSHER *Ch. Banks*

APPROVED BY _____

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

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

DATE FEB 29 19 68

REMARKS	TIME		
	START	STOP	INTERVAL
W.C.C.	12:00		
CLEAN MUD TANKS AND PUMPS			
CUT OFF COND GALL AND CSC			
WELD ON CSC BOWL PICK UP			
R.O.P.S AND NIPPLE UP		8:00	8
NIPPLE UP	8:00		
HACK UP HYDROMATIC			
PRESSURE TEST BLIND RAMS			
1500 PSI HELD OK 15 MIN.		3:00	7
DIG MOUSE HOLE	3:00	4:00	1
DIG MOUSE HOLE	4:00	7:30	3 1/2
RUN IN	7:30	8:15	3/4
PRESSURE TEST HYDRIL AND PIPE	8:15		
RAMS TO 1500 PSI HELD OK		9:40	3/4
DRILL OUT PLUG AND SHOE	9:00	11:00	2
DRILL	11:00	12:00	1

TOOLPUSHER

TOTAL COMPANY TIME 10 HRS.

APPROVED BY

THIS IS 2 DAY ON THIS WELL

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

RIG No. 1 COMPANY UNION OIL LOCATION TROUT LAKE C-30 DATE FEB 28 1968

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	DBLS.	SIZE	
DRILLER <u>CHUCK FELLO</u>	8	212	190	402	7	42	13	6 1/2	2 7/8	40				
DERRICK <u>CHARLIE BERRICK</u>	8													
MOTOR <u>HENRY REMPEL</u>	8													
FLOOR <u>EDWARD STASZ</u>	8													
FLOOR <u>WALT TIPTON</u>	8													
FIREMAN														
EXTRA														
INJURIES														
FIRES														
Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	DBLS.	SIZE	
DRILLER <u>Ken Kallor</u>	8	402	65	467	3 1/2	42	13	6 1/4	2 7/8	40				
DERRICK <u>Phil Hahn</u>	8													
MOTOR <u>Tom Ko</u>	8													
FLOOR <u>Mike Rachowski</u>	8													
FLOOR <u>Bob Schewsky</u>	8													
FIREMAN <u>Mike Kallor</u>	12													
EXTRA														
INJURIES														
FIRES														
Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	WATER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	DBLS.	SIZE	
DRILLER <u>BOB CHAPET</u>	8	467												
DERRICK <u>LOUIS FURNIER</u>	8													
MOTOR <u>ANDREW WITTER</u>	8													
FLOOR <u>JOE MIAZGO</u>	8													
FLOOR <u>HARRY BLEW</u>	8													
FIREMAN														
EXTRA														
INJURIES														
FIRES														

REMARKS	TIME		
	START	STOP	INTERVAL
RIC SERV	17:00	12:15	1/4
DRILL	10:25	1:15	1
SURVEY	1:15	1:30	1/4
DRILL	1:30	3:45	2 1/4
SURVEY	3:45	4:00	1/4
DRILL	4:00	6:00	2
SURVEY	6:00	6:15	1/4
DRILL	6:15	8:00	1 3/4
SURVEY	8:00	8:15	1/4
DRILL	8:15	8:30	1/4
SURVEY	8:30	8:45	1/4
DRILL	8:45	10:15	1 1/2
CIRC TO COR HOLE	10:15	11:45	1 1/2
TRIP TO COR HOLE	11:45	2:00	2 1/4
DRILL	2:00	3:00	1
CIRC COR HOLE FOR 156	3:00	3:15	1/4
SURVEY	3:15	3:45	1/2
HOIST FOR CSC	3:45	4:00	1/4
RIG FOR CASCADING	4:00		
WELD ON FLAT SHOE AND	4:00		
AND CSC CIRC AND TONG			
DOWN LAST 2 JOINTS	10:00	11:00	1
CIRC PRIOR TO CEMENT	11:00		
CEMENT CSC AND PUMP DOWN	11:00	11:45	3/4
PLUG	11:45	12:00	1/4
W.O.P			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER CH. Kallor

B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME 14 HRS. APPROVED BY _____

7-4-3

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

DATE Feb 27 1968

TOTAL CONTRACTOR TIME _____ HRS. TOOL PUSHER _____
TOTAL COMPANY TIME RU-631 _____ HRS. APPROVED BY _____
W-1