HORN R. DECALTA ET AL TROUT LAKE

D-66

Drilling Authority No. 507

Date Issued 18 Febraury 1971

WELL NAME Horn R Decalta et al Trout Lake D-66

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

LOCATION: Unit D Section 66 Grid 61-40-119-45

Latitude 61-35-~~00~~ 09.8 Longitude 119-58-~~00~~ 06.9

U.W.L.R. 61.59111 — 119.96722 61.58605 — 119.96859

U.W.I. 300D061119450

Rig Release Date: .....

Status: .....

Information Release Date: .....

CHANGE OF NAME:

DATE RECEIVED	INDEX
18-2-71	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
15-3-71	Application to Amend a Drilling Authority.
	Application to change a Well Name.
22-3-71	Application to Abandon a Well or Suspend Drilling.
22-3-71	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.....

LAND 52-90 (3-69)

File No.
Drilling Authority No. 507

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to [redacted] Suspend Drilling

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

Name and number of well ROBB R DECALTA ET AL TROUT D-66

Location: Unit D Section 66 Grid 61°40' N.Lat., 119°45' W.Long.

Latitude 61°35'09.8" Longitude 119°58'06.9"

From Established Reference Marker

Universal Well Location Reference Lat. 61.58605° N., Long. 119.96859° W.

Permit No. 4187 Lease No.

Western Decalta Petroleum Limited and Tenneco Oil & Minerals Ltd.

Date of commencement of proposed program March 18, 1971

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at

Gas at 1495-1510

Water at 1511-1565

Total Depth 2265 Date of last operations March 7, 1971

Present condition of well Shut in with plate welded on top and production string (4 1/2") run in hole as shown below - waiting on perforating truck.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 7	20#	8 jts.	242 K.B.	150 sx plus 3% $CaCl_2$	nil
2. 4 1/2	9.50	1640.44	1637 K.B.	40 sx neat cement	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks

The following logs have been run IES, GRS-Caliper

Other operations proposed Perforating of interval 1497-1503.

Operations to be carried out by McCullough Services Contractor Licence No.

Address Address

Responsible Agent in field Al Tezan Gen.Del., Ft. Simpson

Dated at Calgary, this 15th Day of March 19 71

Signed by [signature] Company Hcru River Resources Ltd.

Title President Operator's Exploratory Licence No. 1785

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 3rd March 1971.

Dated 22nd March, 19 71

[signature] Oil Conservation Engineer

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

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

File No. .....
Drilling Authority No. 507

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Alter Condition of a Well

Notice of Intention to Resume Operations to Recondition, Deepen, Recomplete or Reopen a Suspended Well
(Strike out words that are not applicable.)

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

Type of operation: Complete for production testing
Name and number of well: HORN R DECALTA ET AL TROUT D-66
Location: Unit D Section 66 Grid 61°40' N.Lat., 119°45' W.Long.
Latitude 61°35'09.8" Longitude 119°38'06.5"
Unique Well Identifier: 300D66MW119M50
Universal Well Location Reference: Lat. 61.58605° N., Long. 119.96859° W.
Permit No. 4187 Lease No.
Permittee, Licensee, Lessee: Western Decalta Petroleum Limited and Tenneco Oil & Minerals Ltd.

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at .....
Gas at 1495-1510
Water at 1511-1563
Total depth 2263 Date of last operation March 7, 1971
Present condition of well: Shut in with plate welded on top and production string (5 1/2") run in hole as shown below - waiting on perforating truck

CASING RECORD

Casing Size O.D. (Inches)	Weight	Amount	Set at—	Sacks of Cement and Additives	Amount Pulled
1. 7	20#	8 jts.	242 K.B.	150 sx plus 3% CaCl2	nil
2. 5 1/2	9.5#	1640.44	1653 K.B.	40 sx neat cement	
3.					
4.					
5.					
6.					

OPERATION PROPOSED
(If more space is required, attach additional sheet)

Program of operations – (Plugs, perforations, rework, etc.): Install wellhead - run perforating line and perforate 1497-1503 (K.B.) with 3 (1 11/16") Tornado jet shots/ft. - run initial potential test, flaring gas.

Operations to be carried out by McCullough Services Contractor's Business Licence No. .....
Address .....
Responsible agent in field: Al Tazan Address: Gen. Del., Ft. Simpson
Dated at Calgary, this 15th day of March 19 71
Signed by [signature] Company: Horn River Resources Ltd.
Title: President Operator's Exploratory Licence No. 1783

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 program of operations approved, subject to the following conditions:
Confirming oral approval given by Mr. G. E. Hunt on the 15th March 1971.

Dated 22nd March, 19 71 [signature]
Oil Conservation Engineer

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

IAND 52 90 (6) (9-69)

File No. .....

Drilling Authority No. 507

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 507, concerning

Horn R Decalta et al Trout D-66

(Name and Number of Well)

The following amendments are required:

Change Latitude to read: 61°35'09.8"

Change Longitude to read: 119°58'06.9"

Reasons for the amendments:

Legal survey was taken showing exact co-ordinates

Dated at Calgary, this 11th day of March, 19 71

Signed by [signature]

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:

UNIVERSAL WELL LOCATION REFERENCE: Lat. 61.58605° N.
Long. 119.96859° W.

Date 15th March, 19 71

[signature]
Oil Conservation Engineer

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

IAND 52-90-3 (3-67)

Drilling Authority No. 507

Project No.

File No.

CANADA

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 R Decalta et al Trout D-66

Location: Unit D Section 66 Grid 61°40' N.Lat., 119°45' W.Long.

Latitude 61°35'04" Longitude 119°58'02"

Unique Well Identifier 300D66614011945O

Universal Well Location Reference Lat. 61.58444° N., Long. 119.96722° W.

Elevation: Ground 790 K.B. (est.) 800 feet above sea-level.

Well is expected to produce from Horn Plateau Reef formation at a depth of about 1600 feet. Expected total final depth 2275'

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 4187 Lease No. Acreage 6094S

Permittee, licensee, or lessee Western Decalta Petroleum Limited & Tenneco Oil & Minerals Ltd.

Exploratory Licence No. 1696 1389

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. 7	20	J-55	Used	* 250	100
2.					
3.				*See Condition of Approval	
4.				No. 6	
5.					

Expected water, gas, and oil horizons and type of control equipment Middle Devonian carbonates -
2 - B.O.P.'s 8" - 900 Series Ram Type B.O.P.
8" - 900 Series Regan Torus bag type B.O.P.

Well will be drilled with Rotary Rig No. 57 by Big Indian Drilling Co. Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. 791

At well Al Whitteron At registered office F. L. Woolley

Address Gen. Del., Ft. Providence Address 1020 Aquitaine Tower, 540 Fifth Ave. S.W. Calgary, Alberta

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

Dated at Calgary, this 10th day of February 19 71

Signed by [signature] 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

Dated 18th February 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.

IAND 52-90-1 (3-60)

reports 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 shall receive the approval of the Oil Conservation Engineer prior to running.

6. The Surface Casing shall be set at least 75 feet into a competent formation.

B.H.J. Thoms, Oil Conservation Engineer

HORN RIVER DECALTA ET AL TROUT D - 66

Geological Prognosis

Grd. 790 (est.) K.B. 800 (est.)

	Depth	Elevation
Glacial Drift	0	
Fort Simpson	250	+ 550
Horn River	1450	- 650
Horn Plateau Reef	1525	- 725
Silt	2040	-1240
Chinchaga	2060	-1260
Red Beds	2240	-1440
Pre Cambrian	2250	-1450

Coring - Cut core as soon as porosity in Horn Plateau reef is established.

Testing- Test upper part of reef as soon as sufficient porosity for satisfactory test has been opened up.

If water recovered resume drilling.

If water free hydrocarbon is recovered core and test until zone fully evaluated

Samples - 10' Samples will be caught from grass roots to T.D.

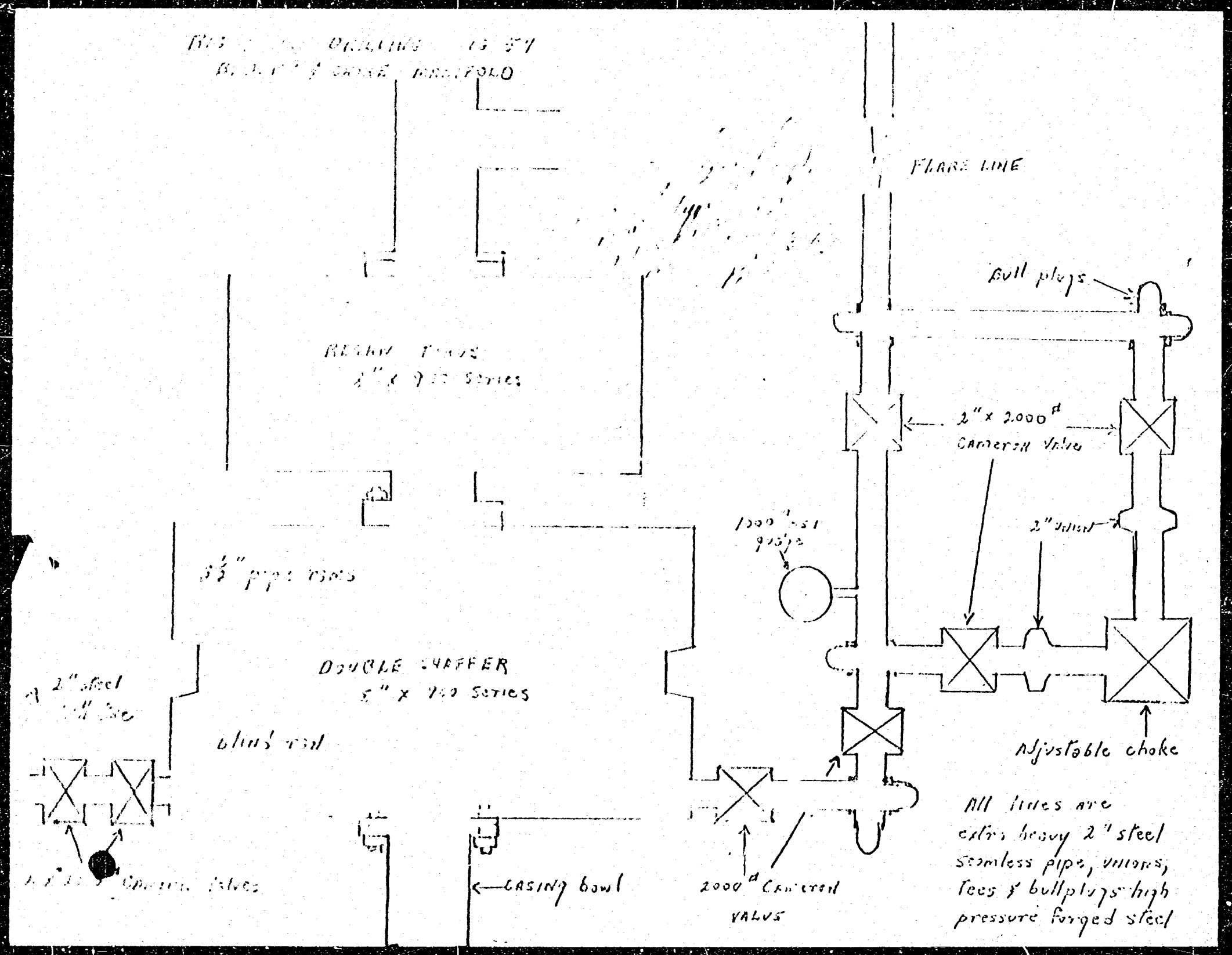
Two sets of bottled samples will be made up at the rig.

The remainder of the sample will be forwarded to the G. S. C. in Calgary.

Logs - Unless additional logs are reqoested. Induction Electrical and Gamma Sonic Caliper logs will be run on reaching T. D.

Prepared by A M. Patterson

Thulon Clay


FLARE LINE
Bull plugs
2" x 2000# Cameron Valve
2" valve
1000 # psi gauge
Adjustable choke
All lines are extra heavy 2" steel seamless pipe, valves, tees & bullplugs high pressure forged steel
DOUBLE CHAFFER
5" x 900 Series
blind rod
2" steel
CASING bowl
2000# Cameron VALVE

Drilling Authority No. 507

Date Issued Feb. 18, 1971

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

IAND 52-90 (2) (3-70)

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 HORN R DECALTA ET AL TROUT D-66

Permit No. 4187 Lease No.

Western Decalta & Tenneco (Permittee, Licensee, Lessee) Exploratory Licence No. 1696 and 1389

Horn River Resources Ltd. (Operator) Exploratory Licence No. 1785

Location: Unit D Section 66 Grid 61°40' N., 119°45' W.

Latitude 61°35'04" N Longitude 119°58'02" W.

Unique well identifier 300D666140119450

Universal Well Location Reference Lat. 61.58444°N., Long. 119.96722°W.

	DATE	DEPTH
Spudded	Feb.27/71	
Suspended	Mar. 7/71	2264 (logs)
Resumed Operations		
Finished Drilling	Mar. 4/71	2265 (drlr)
Deepened		
Complete (gas/oil)		
Abandoned		
Rig released	Mar. 7/71	

Pool(s) NA

Interval(s) open to production NA

Elevation: Gr. 790 K.B. 800

Rig No. 57

Drilling Contractor Big Indian Drilling

Contractor's Business Licence No. 791

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at —	Sacks of Cement and Additives
1. 7"	J55	20#	245	242	150 sx + 3% $CaCl_2$
2. 4 1/2"	J55	9.5#	1640.44	1637 (KB)	40 sx neat cement
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Horn River	1497	- 697
Pine Point	1904	- 1104
Chinchaga	2056	- 1256
Red Beds	2200	- 1400
T.D.	2265	

CORE RECORD

From	To	Rec.	From	To	Rec.
1515	1565	19'			

LOG RECORD

Run No.	Type of Log	From	To
1	IES	2263	243
2	BHCSGRC	2262	243
3	GRN-Collar Locator	1608	1350

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.6/71	2265	1850	70 sx + 4% gel	Mar.16/71	1497	1503	1-11/16" Tornado Jet 3 shots/ft. (19 holes)	NZ			

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	Feb.27/71	Horn Plateau Reef	1511	1565	60	60	60	614	596	281	413	731	722	GTS in 10 mins., TSTM, FTS in 40 mins., 800' black sulphurous salt water.
2	Mar. 4/71	"	1481	1513	60	60	60	633	614	333	590	735	737	GTS in 20 mins., TSTM, 1200' muddy salt water. Misrun.
3	Mar. 5/71	"	1481	1509	60	60	60	610	604	289	553	730	719	GTS in 20 mins., TSTM, 1250' muddy salt water. Misrun.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
933'-1309'	No. 1	1511	1565	DST #1	Water Analysis
933'-1309'	No. 2	1481	1513	DST #2	" "
933'-1309'	No. 3	1481	1509	DST #3	" "

PRESENT STATUS OF WELL

		(Interval.)
Oil		
Gas		
Dry		
Susp.	X	1497'-1503'

Company Horn River Resources Ltd.

Signed by [signature]

Title President

Date July 9, 1971

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

Canada Oil and Gas Lands Administration | Administration du pétrole et du gaz des terres du Canada

				Well Status	
Nova Scotia	☐	West Coast	☐	Suspended	☒
Newfoundland	☐	Northern	☒	Completed	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	Abandoned	☐

APPLICATION TO ALTER CONDITION OF A WELL

This application form is to be submitted in triplicate to the District Conservation Engineer at least 45 days before commencement of operations.

Well Name: Horn River Decalta et al Trout D-66 Area: Horn River

Coordinates: Lat: 61° 35' 09.8" N Long: 119° 58' 06.9" W

Operator: Western Decalta Petroleum (1977) Limited Contractor: Computalog and Nowsco

Drilling Rig or Unit: N/A Depth: 499 m

Date ATDW Issued: 71-02-18 Date of Last Operation 71-03-17

TYPE OF OPERATION

Airlift wireline and pumping equipment to location and abandon well.

SUMMARY OF PROPOSED OPERATIONS

- Set 114 mm bridge plug at ± 449 m.
- Pressure test bridge plug to 7000 kPa for 15 minutes.
- Dump bail 30 m of cement on bridge plug.
- Set second bridge plug at 18 m.
- Dump bail 10 m of cement on bridge plug.
- Dig down 1 m, cut off casing strings and weld on steel plates. Backfill hole.

(a detailed program is attached)

Signed: [signature] Title: Drilling Superintendent

Date: October 31, 1988 Company: Western Decalta Petroleum (1977) Limitec

APPROVAL

An approved copy of this notice should be posted at each wellsite.

Signed: [signature]
Conservation Engineer

Date: 89-06-06

ATDW No: 507 File:

Department of Energy, Mines and Resources | Ministère de l'Énergie, des Mines et des Ressources

Department of Indian Affairs and Northern Development | Ministère des Affaires indiennes et du Nord canadien

Canada

Canada Oil and Gas Lands Administration | Administration du pétrole et du gaz des terres du Canada

D.A. 507

				Well Status	
Nova Scotia	☐	West Coast	☐	Suspended	☐
Newfoundland	☐	Northern	☒	Completed	☐
Gulf of St. Lawrence	☐	Hudson Bay	☐	Abandoned	☒

WELL TERMINATION RECORD

This record is submitted in triplicate in compliance with Section 184 of the Canada Oil and Gas Drilling Regulations.

WELL DATA

Well Name: Horn River Decalta Et Al Trout D-66 Area: Jean Marie River

Grid Area: 61-40-119-45 Field/Pool: Trout Field

Permit or Lease No.: 4187 Final Coordinates: Lat.: 61° 35' 9.8" Long: 119° 58' 6.9"

Drilling Unit: Big Indian #57 Elevations-RT/KB: 243.8 SF/GL: 240.8 m

Spud Date: 71-02-22 Rig Released: 71-03-07 Total Depth: 2265 ft. 690.4 m

CASING AND CEMENTING

O.D.:	Weight:	Grade:	Depth Set:	Cement and Additives:
177.8 mm	29.76	J-55	74 m	6 Tonne
114.1 mm	14.14	J-55	499 m	1.2 Tonne

UWI: 300D66140119450

PLUGGING PROGRAM

Approval of the following program was obtained by (person) Bert Hadley from (person) M.D. Thomas of the Canada Oil and Gas Lands Administration by means of Application on June 5th 19 89

Type of Plug:	Interval:	Felt:	Cement and Additives:
Bridge Plug	450 m	Pressue test to 7 MPa for 20 minutes	
Cement	450 - 420 m	Dump Bail	Class 'G' Neat
Bridge Plug	18 m		
Cement	18 m - Surface		Class 'G' Neat

Lost Circulation/Overpressure Zones: N/A

Equipment left on Seafloor (Describe): N/A

Provision for Re-entry (Describe and attach sketch): N/A

Cores: Type: Conventional Intervals: 461.8 - 477.0 m

Other Downhole Completion/Suspension Equipment: Dug down to 1 metre cut off casing strings and welded on steel caps.

CERTIFICATION

I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate.

Signed: P. Eng. Title: Manager, Drilling and Construction

Name: M. Osterling Date: July 6, 1989

Acknowledged by: Engineering Branch

Date: 89-07-14

File:

Department of Energy, Mines and Resources | Ministère de l'Énergie, des Mines et des Ressources

Department of Indian Affairs and Northern Development | Ministère des Affaires indiennes et du Nord canadien

Canada

NOTE: Well RE: 18-JUN-89 CARRIED OUT WITH
ABAND.: 20-JUN-89 PORTABLE W/L EQUIPMENT.
PR.

OPERATION REEF
NORTHWEST TERRITORIES
CANADA

Geological and Engineering
REPORT

HORN R DECALTA et al TROUT D-66

PREPARED FOR

HORN RIVER RESOURCES LTD.

PREPARED BY

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

INTRODUCTION

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

Horn R Decalta et al Trout D-66

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

"OPERATION REEF"

Data in this report were compiled by James A. Lewis Engineering Co. Ltd. Technical data were supplied by Big Indian Drilling Co. Ltd. Geological data were supplied by W. B. Gallup through Western Decalta Petroleum Ltd.

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
JUN 9 1972
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

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Section 1

GENERAL

HORN RIVER RESOURCES LTD.
1020 AQUITAINE TOWER
540 FIFTH AVENUE S.W.
CALGARY 1, ALBERTA

July 6, 1971

File: 9708-39

The Participants
OPERATION REEF

SUBJECT: Addendum to Trout D-66, Completion Report

Gentlemen:

It has come to our attention that data of the Drill Stem Tests on the well Horn R Decalta et al Trout D-66 were left out of the bound report.

We have prepared these data on sheets that will slip inside your copy. These should follow page 11.

We regret the inconvenience this may have caused.

Very truly yours,

JAMES A. LEWIS ENGINEERING CO. LTD.

Norman Orr
For: HORN RIVER RESOURCES LTD.

NO:mb
Encl.

JUL 8 1971

DRILL STEM TEST REPORT

WELL: Horn R Decalta et al Trout D-66

DATE: February 27, 1971 **TEST NO.** 1

INTERVAL TESTED: 1511' - 1565' **FORMATION:** Horn Plateau Reef

TOTAL DEPTH DRILLER: 1565' **LOGS:** None Run

HOLE SIZE: 6-1/4" **RAT HOLE SIZE:** 6-3/16"

TESTING COMPANY: Lynes United **OPERATOR:** Bell

MUD		DRILL PIPE		TEST TOOL	
Type	Gel Chem	Type	I.F.	Size Rubber	5-1/2"
Wt.	9.1	Size	3-1/2"	Type	-
Visc.	50	Size T.J.	4-5/8"	Tool Type	-
W.L.	9.8	Collars	3-1/2" I.F.	Size Choke	5/8"
pH	-	Jars	-	Wt. to Set	-
F.C.	2/32	Safety Joint	-	Pull Loose	-
Conditions	Good	Pumpout Sub.	-	Fluid Cushion	-

Bit off Bottom	4:00 p.m. 2/26/71	Preflow	5	min.	B.H. Temp.	-	°F.
Start Tester in	12:00 a.m. 2/27/71	I.S.I.	60	min.	Gauge Depths	1522	K.B.
Tester on Bottom	2:30 a.m.	Tool Open	60	min.		1526	K.B.
Tool Open	2:40 a.m.	F.S.I.	60	min.		-	
Tool Closed	2:45 a.m.						

		Upper Gauge			Lower Gauge		
Tool Open	3:45 a.m.	I.H.S.	725	psig	I.H.S.	731	psig
Tool Closed	4:45 a.m.	Preflow	155	psig	Preflow	175	psig
Tool Loose	5:45 a.m.	I.S.I.	605	psig	I.S.I.	614	psig
Tool Out	8:00 a.m.	Initial Flow	270	psig	Initial Flow	281	psig
Rubber Condition	O.K.	Final Flow	407	psig	Final Flow	413	psig
Test O.K.	Yes	Final S.I.	593	psig	Final S.I.	596	psig
		F.H.S.	718	psig	F.H.S.	722	psig

BLOW: Gas to surface in 10 minutes. Too small to measure. Fluid to surface 40 minutes.

RECOVERY: 800 feet black sulphurous salt water.

James A. Lewis Engineering Co. Limited

DEPARTMENT OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JUL 8 1971
CALGARY, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

DRILL STEM TEST REPORT

WELL: Horn R Decalta et al Trout D-66

DATE: March 4, 1971 TEST NO. 2

INTERVAL TESTED: 1481' - 1513' FORMATION: Horn Plateau Reef

TOTAL DEPTH DRILLER: 2265' T.D. LOGS: Induction Electric and BHCSGRC

HOLE SIZE: 6-1/4" RAT HOLE SIZE: -

TESTING COMPANY: Lynes United OPERATOR: Bell

Straddle

MUD		DRILL PIPE		TEST TOOL	
Type	Gel Chem	Type	I.F.	Size Rubber	5-1/2"
Wt.	9.2	Size	3-1/2"	Type	-
Visc.	80	Size T.J.	4-5/8"	Tool Type	-
W.L.	10	Collars	3-1/2" I.F.	Size Choke	5/8"
pH	-	Jars	-	Wt. to Set	-
F.C.	2/32	Safety Joint	-	Pull Loose	-
Conditions	Good	Pumpout Sub.	-	Fluid Cushion	-

Bit off Bottom	1:30 p.m. 3/4/71	Preflow	5 min.	B.H. Temp.		°F.
Start Tester in	8:00 p.m.	I.S.I.	60 min.	Gauge Depths	1504	K.B.
Tester on Bottom	12:00 a.m. 3/5/71	Tool Open	60 min.		1500	K.B.
Tool Open	12:40 a.m. 3/5/71	F.S.I.	60 min.		1529	

		Upper Gauge			Lower Gauge		
Tool Closed	12:45 a.m.						
Tool Open	1:45 a.m.	I.H.S.	730	psig	I.H.S.	735	psig
Tool Closed	2:45 a.m.	Preflow	270	psig	Preflow	270	psig
Tool Loose	3:45 a.m.	I.S.I.	633	psig	I.S.I.	633	psig
Tool Out	5:30 a.m.	Initial Flow	327	psig	Initial Flow	333	psig
Rubber Condition	O.K.	Final Flow	589	psig	Final Flow	590	psig
Test O.K.	Misrun	Final S.I.	611	psig	Final S.I.	614	psig
		F.H.S.	733	psig	F.H.S.	737	psig

BLOW: Too small to measure

RECOVERY: 1200' muddy salt water.
Misrun

James R. Lewis Engineering Consultant

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JUL 8 1971
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

DRILL STEM TEST REPORT

WELL: Horn R Decalta et al Trout D-66

DATE: March 5, 1971 TEST NO. 3

INTERVAL TESTED: 1481' - 1509' FORMATION: Horn Plateau Reef

TOTAL DEPTH DRILLER: 2265' T.D. LOGS: IES and BHCSGRC

HOLE SIZE: 6-1/4" RAT HOLE SIZE: -

TESTING COMPANY: Lynes United OPERATOR: Bell

Straddle

MUD		DRILL PIPE		TEST TOOL	
Type	Gel Chem	Type	I.F.	Size Rubber	5-1/2"
Wt.	9.2	Size	3-1/2"	Type	-
Visc.	80	Size T.J.	4-5/8"	Tool Type	-
W.L.	-	Collars	3-1/2" I.F.	Size Choke	5/8"
pH	-	Jars	-	Wt. to Set	-
F.C.	2/32	Safety Joint	-	Pull Loose	-
Conditions	O.K.	Pumpout Sub.	-	Fluid Cushion	-

Bit off Bottom	1:30 p.m. 4/4/71	Preflow	5	min.	B.H. Temp.	- °F.
Start Tester in	9:00 a.m. 4/5/71	I.S.I.	60	min.	Gauge Depths	1500 K.B.
Tester on Bottom	10:20 a.m.	Tool Open	60	min.		1504 K.B.
Tool Open	10:35 a.m.	F.S.I.	60	min.		1528
Tool Closed	10:40 a.m.	**Upper Gauge**			**Lower Gauge**	
Tool Open	11:40 a.m.	I.H.S.	741	psig	I.H.S.	730 psig
Tool Closed	12:40 p.m.	Preflow	188	psig	Preflow	250 psig
Tool Loose	1:40 p.m.	I.S.I.	611	psig	I.S.I.	610 psig
Tool Out	3:00 p.m.	Initial Flow	302	psig	Initial Flow	289 psig
Rubber Condition	Good	Final Flow	558	psig	Final Flow	553 psig
Test O.K.	Misrun	Final S.I.	607	psig	Final S.I.	604 psig
		F.H.S.	737	psig	F.H.S.	719 psig

BLOW: Gas to surface in 25 minutes. Too small to measure.

RECOVERY: 1250' muddy salt water.
Misrun

James Lewis Engineering Co.

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JUL 8 1971
CALGARY 21, ALBERTA
PETROLEUM ENGINEER
OIL CONSERVATION
Northwest Territories & Yukon Territory

SUMMARY OF WELL DATA

WELL: Horn R Decalta et al Trout D-66

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

LEGAL DESCRIPTION: Unit D Section 66 Grid 61° 40' N, 119° 45' W

LOCATION: LATITUDE: 61° 35' 04" N LONGITUDE: 119° 58' 02" W

UNIVERSAL WELL LOCATION REFERENCE: Lat 61. 58444° N, Long 119. 96722° N

UNIQUE WELL IDENTIFIER: 300D666140119450

CO-ORDINATES:

PERMIT OR LEASE: 4187

PERMITTEE, LICENCEE, LESSEE: Western Decalta Petroleum Limited and Tenneco Oil and Minerals Ltd.

DRILLING AUTHORITY: 507 DATE: February 18, 1971

CLASSIFICATION: New Field Wild Cat

ELEVATION: GROUND: 790 K.B. 800

DRILLING CONTRACTOR: Big Indian Drilling Co. Ltd.

WELLSITE GEOLOGIST: W. B. Gallup for Western Decalta Petroleum Ltd.

SURFACE CASING: 7" - 20 lb J-55 set @ 242' K.B. w/c 150 sacks plus 3% $CaCl_2$

HOLE SIZE: 0-245 - 9-7/8", 245 - 2265 - 7-7/8"

MUD SYSTEM: Gel Chemical

CORES: No. 1: 1515' - 1565' Recovered 19'

FORMATION TESTS: DST No. 1: 1511 - 1565' Gas to surface TSTM
DST No. 2: 1481 - 1513' Gas to Surface TSTM
DST No. 3: 1481 - 1509' Gas to Surface TSTM

PRODUCTION CASING: Ran 4-1/2" 9.5 lb. J-55 set @ 1637' Cemented with 40 sacks cement.

LOST CIRCULATION: None

LOGS: Induction Electrical 2263 - 243'
BHCSGRC 2262 - 243'

WELL SPUDDED: 12:30 p.m. February 27, 1971

FINISHED DRILLING: 12:45 p.m. March 4, 1971

RIG RELEASED: 1:30 p.m. March 7, 1971

TOTAL DEPTH: 2265'

STATUS: Suspended Test Well

Section 2

GEOLOGICAL

GEOLOGY OF HORN RESOURCES

Decalta et al Trout River D-66

INTRODUCTION

The above well, at Lat. 61° 35' 04", Long. 119° 58' 02", was drilled February 22 - March 4, 1971, to a depth of 2075' to test an occurrence of the Horn Plateau Reef.

GEOLOGY

The Horn Plateau Reef was encountered, as anticipated, at 1498'. It is porous, bituminous and contains some gas and a very salty water (250,000 + ppm Cl.).

The Horn River formation, immediately above the reef was petroliferous over the interval 1430' - 1490'. During drilling, oil streaks appeared in the mud. On three instances samples were circulated off bottom accordingly.

The Horn Plateau reef may be subject throughout to hydrostatic pressures only, due to the outcrop of the formation near Fawn Lake, about 60 miles N. E. of the drilling location. However, since it is a bioherm it will most probably form traps which will contain hydrocarbons at pressures higher than hydrostatic.

The reef at the subject well contained only gas but since the overlying Horn River shales contained some liquid hydrocarbons, it is probable that some reef growth in the locality will have entrapped oil.

There is oil in the outcrop of the Middle Devonian Presquille formation at Windy Point.

From the above, there is evidence of oil occurring both above and below the Horn Plateau reef which is known to be biohermal. It would then seem to follow that where a large development of the reef and one having considerable relief could be found, it would contain oil.

Exploration to find an important development of Horn Plateau reef would entail considerably more detailed geology and geophysics than has been undertaken so far.

We considered that the hole was properly examined. It now stands as a capped gas well pending further production tests.

It is possible that such gas accumulations in these reefs could be deliverable to nearby communities, proximity etc. being favorable. This is an engineering problem. This well may be too remote to be considered a source of deliverable fuel at present.

W. B. Gallup

W. B. Gallup

FORMATION TOPS

Formation	Sample	E. Log
Ft. Simpson	50'	above casing shoe
Horn River	1390'	1400'
Horn Plateau	1500'	1498'
Pine Point	1850'	1870'
Chinchaga	2055'	2045'
Red Beds	2200'	2185'
Granite Wash	2255'	2245'
Precambrian	2263'	no log record

T. D. Driller 2265'

Schlumberger 2264'

Horn Resources Decalta et al Trout R. D-66

61° 35' 04'' NL. 119° 58' 02" WL.
El. 790 (est.) K.B. 800' (est.)

SAMPLE AND CORE DESCRIPTIONS

0- 50	Glacial drift.
50-1390	Ft. Simpson Fmt.
	Shale, dark grey to greyish green, occasionally micaceous, somewhat fissile or platy. Minor amounts of grey, finely crystalline, argillaceous limestone increasing downwards.
1390-1500	Horn River Fmt.
	Shale and limestone: dark brown shale and dark brownish finely crystalline, argillaceous limestone. Traces of disseminated mica and pyrite throughout. Oil slicks on mud stream while drilling the lower part of this section.
1500-1515	Horn Plateau Reef.
	Limestone, coarsely crystalline, scattered porosity and small vugs, fossiliferous, pyrobituminous.
1515-1565	Core No. 1
1565-1730	Limestone, grey to white, coarsely crystalline, slightly porous, pyrobituminous. Occasional thin beds of finely crystalline to dense white limestone.
1730-1790	Limestone, grey to dark grey, becoming in part brownish downward. Crystalline with only traces of porosity. Pyrobitumen not present.
1790-1850	Limestone, grey and grey brown, dense to finely crystalline.
1850 1880	Pine Pt. Fmt.
	Limestone, dark grey to dense, finely crystalline, argillaceous.
1880-2010	Limestone, in part dolomitic. [illegible] brown, fine grained.

2010-2055	Shale, grey green, slightly silty.
2055-2200	<u>Chinchaga Fmt.</u>
	Anhydrite and buff crystalline limestone.
2200-2255	"Red Beds", reddish, silty evaporites.
2255-2263	Granite Wash.
	<u>Precambrian</u>
2263-2265'	Granite, red, feldspathic.
	T.D. 2265'.

CORE NO. 1 1515' - 1565' Recovered 20'.

Horn Plateau Reef

Limestone - Grey, coarsely crystalline, scattered pin point porosity and vugs, pyrobituminous. Bled traces of gas on recovery. Salty taste. 6" of brown, soft, finely crystalline, finely porous Limestone 2.5' above base of core.

Profuse coralla.

Section 2

CORING TIME

Horn R Decalta et al Trout D-66

Depth, Feet	Minutes Per Foot
1515-1516	12
1516-1517	17
1517-1518	2
1518-1519	18
1519-1520	4
1520-1521	11
1521-1522	5
1522-1523	8
1523-1524	9
1524-1525	12
1525-1526	11
1526-1527	2
1527-1528	11
1528-1529	9
1529-1530	12
1530-1531	6
1531-1532	12
1532-1533	12
1533-1534	13
1534-1535	7
1535-1536	2
1536-1537	6
1537-1538	3
1538-1539	5
1539-1540	7
1540-1541	10
1541-1542	5
1542-1543	7
1543-1544	20
1544-1545	9
1545-1546	6
1546-1547	5
1547-1548	22
1548-1549	16
1549-1550	7
1550-1551	8
1551-1552	10
1552-1553	4
1553-1554	5
1554-1555	8
1555-1556	8
1556-1557	8

Section 2

CORING TIME (Continued)

Horn R Decalta et al Trout D-66

Depth, Feet	Minutes Per Foot
1557-1558	9
1558-1559	9
1559-1560	9
1560-1561	2
1561-1562	8
1562-1563	8
1563-1564	9
1564-1565	8

Section 3

DRILLING AND ENGINEERING

SUMMARY OF DRILLING OPERATIONS

Horn R Decalta et al Trout D-66

Date	Depth	Operation
2-22-71	0'	Rigging up to spud in.
2-23-71	245'	Running Casing. Spudded well at 12:30 p.m. February 22, 1971. Drilled 9-7/8" hole to 245'. Ran 7" casing.
2-24-71	848'	Drilling 6-1/4" hole. Ran 245' of 7" - 20 lb. J-55 casing plus float collar and guide shoe set at 242' K.B. Cemented with 150 sacks cement plus 3% $CaCl_2$. Plug down 9:30 a.m. February 24, 1971. Headed up and tested BOP's. Tested Blind Rams, Pipe Rams and Hydril each to 800 psi, held pressure on each for 15 minutes, held OK.
2-25-71	1515'	Pulling out core barrel. Barrel plugged on first trip into hole.
2-26-71	1518'	Cutting Core No. 1. Mud wt. 9.5 Vis. 80
2-27-71	1565'	Pulling DST No. 1. Cut Core No. 1 1515' to 1565'. Recovered 19'. Ran DST No. 1: 1511' to 1565'. Times 5 minutes, 60 minutes, 60 minutes and 60 minutes. Recovered 800' of salt water.
2-28-71	1565'	Waiting on repairs.
3- 1-71	1803'	Drilling 6-1/4" hole. Mud wt. 9.6, Vis. 38
3- 2-71	1958'	Drilling 6-1/4" hole. Mud wt. 9.1, Vis. 35
3- 3-71	2075'	Drilling 6-1/4" hole. Mud wt. 8.8, Vis. 34
3- 4-71	2235'	Drilling 6-1/4" hole. Mud wt. 9.3, Vis. 36
3- 5-71	2265'	Running DST No. 2: 1481' to 1513'. Misrun.
3- 6-71	2265'	Waiting on casing. Ran DST No. 3: 1481' to 1511'. Misrun. Plugged back from 2265' to 1850'.
3- 7-71	1850'	PBD. Circulating casing. Ran 34 joints 4-1/2" 9.5 lb./foot K-55 new casing. 1640' overall. Landed at 1637' K.B. Cemented with 40 sacks of cement, slurry weight 15.2 lbs./gallon. Plug down 9:15 a.m.

SUMMARY OF DRILLING OPERATIONS

Horn R Decalta et al Trout D-66

Date	Depth	Operation
3- 8-71	1607'	PBD. Standing cemented awaiting testing. Rig released 1:30 p.m. March 7, 1971.

BIT RECORD

WELL: Horn R Decalta et al Trout D-66

BIT NO.	SIZE & TYPE	DEPTH OUT, Feet	FOOTAGE, Feet	HOURS	WEIGHT, M Pounds	R.P.M.	CONDITION
1A	9-3/4 RR	97	97	9½		180	
2A	9-3/4 RR	245	148	4¾		180	
1	6-1/4 DTJ	1515	1270	22½	15	180	
1	6-1/4	Re-Run to Clean Out					
1 - Dia	6-3/16	1565	50	8½	-	95	-
2	6-1/4 OWC	1835	270	17¾	20	75	
3	6-1/4 OWC	1965	130	17¾	20	80	
4	6-1/4 OWC	2075	80	18¼	22	80	
5	6-1/4 OWV	2265	190	17¾	20	75	

SUMMARY

Surface Hole 245 of 9-7/8 " 14-1/4 hours on bottom.

Main Hole 1970 of 6-1/4 " 102-1/2 hours on bottom.

Core Hole 50 of 6-3/16 " 8-1/2 hours on bottom.

James A. Lewis Engineering Co. Ltd.

SUMMARY OF MUD ADDITIVES

Horn R Decalta et al Trout D-66

Bentonite (Gel)	136 Sacks
Rapid Drill	20 Sacks
Caustic	50 Pounds

SURVEY RECORD

Horn R Decaita et al Trout D-66

Depth, Feet	Deviation, Degrees
50	1/4
85	1/2
113	1/2
153	1/2
404	3/4
728	2
1056	1-3/4
1300	1-7/8
1835	1-3/4
1983	1-1/2
2265	1-5/8

Section 4

LOGGING DATA

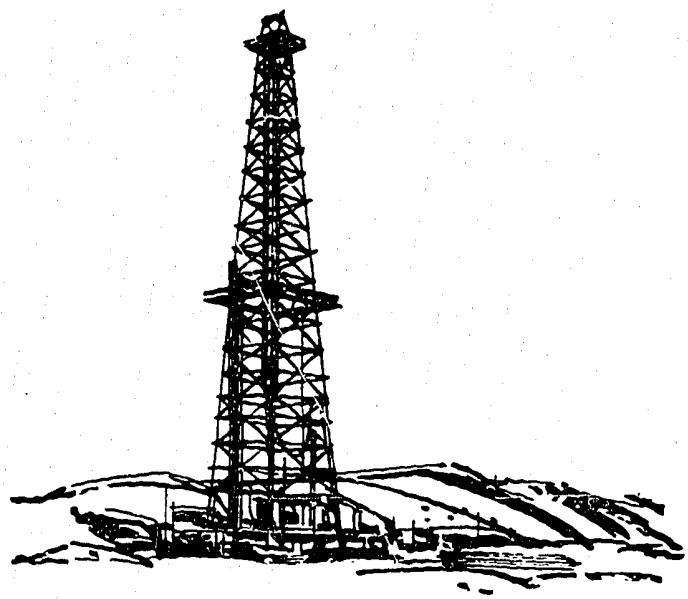
Horn R Decalta et al Trout D-66

Log	Scale	Depth
Induction Electrical	2'' & 5''/100'	2263' to 243'
Borehole Compensated Sonic Gamma-Ray Caliper	2'' & 5''/100'	2262' to 243'

LYNES

BRIGHT NAME IN THE OIL PATCH

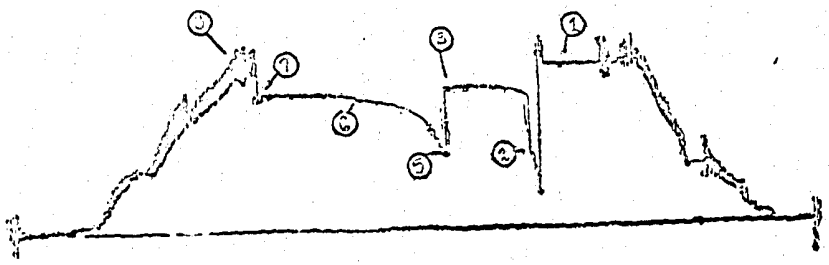
Inflatable and Conventional Packer Tools



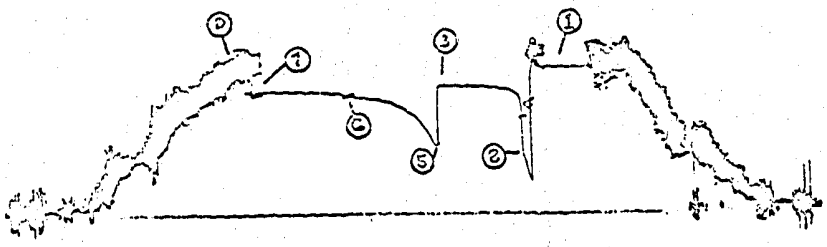
DRILL STEM TEST
TECHNICAL SERVICE REPORT

Pacific Offshore Drilling
Ulsa River Results at Al Trout River 0-55
61° 35' 04.00 119° 58' 02.00
#2
March 1/71

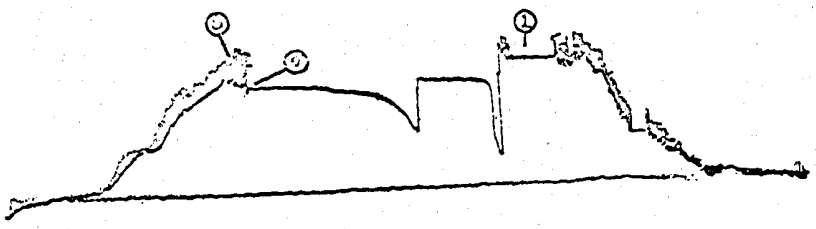
HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 53' 02.00 1092-2



HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 52' 02.00 2816-2



HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 52' 02.00 966-2
BELOW BOTTOM PACKER
PACKER FAILED



LYNES UNITED SERVICES LTD.

TEST DATA

Test No. 2 Lynes Test 2

Formation Horn Plateau Reef T.D. 2265 Ft.

Interval Tested 1481 Ft. to 1513 Ft.

Feet of Net Pay Tested 32 Ft.

Type of Test Conventional Straddle

Cushion Amount Ft.

Started in Hole at 2200 Hrs. Tool Open at 2440 Hrs.

Pre-Flow 5 Mins. Initial Shut-in 60 Mins.

2nd Flow Mins. Second Shut-in Mins.

Final Flow 60 Mins. Final Shut-in 60 Mins.

Remarks:

Blow: Good initial blow in pail.
Gas to surface in 20 minutes.

GENERAL INFORMATION

Company Kenting Oilwell Drilling

Address

Well Name Horn River Decalta et al Trout River

Well Number D-66- 61° 35' 04.00 119° 58' 02.00

K.B. Elevation Sub-Sea Elevation

Area Province

Company Rep. B. Callup

Tester H. Bell

Contractor Big Indian Rig No. 57

Ticket No. 2113 Date March 4/71

Service Reports To:
5 - James A. Lewis Engineering Ltd.
+ 40 xeroxed copies.

GAS BLOW MEASUREMENTS

Measured with Too small to measure.

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type Gel

Weight 9.2 Viscosity 80 Water Loss

Filter Cake 2/32" Bottom Hole Temperature

Drill Pipe Size 3 1/2" IF Weight

Drill Collars 3 1/2" IF I.D. Feet Run

Main Hole or Casing Size 6 1/4"

Rathole or Liner Size No. of Feet

Bottom Hole Choke Size 5/8"

Surface Choke Size 1"

Packer Rubber Size 5 1/2"

REMARKS Lower recorder indicates that the bottom packers failed. Misrun.

RECOVERY

TOTAL FLUID RECOVERED 1200 Ft. Consisting of:

1200 Ft. of muddy salt water

Ft. of

Ft. of

Ft. of

Test was/was not Reverse Circulated

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside ___ Outside X	Inside ___ Outside X	Inside ___ Outside X	Inside ___ Outside ___
Recorder No.	2816	1097	966	
Capacity	4600	4100	5000	
Depth	1504	1500	1529	
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	730	735	750	
2 - PRE-FLOW	270	270	285	
3 - INITIAL SHUT-IN	633	633	649	
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	327	333	346	
6 - FINAL FLOW	589	590	603	
7 - FINAL SHUT-IN	611	614	635	
8 - FINAL HYDROSTATIC	733	737	758	

Kenting Oilwell Drilling — Company

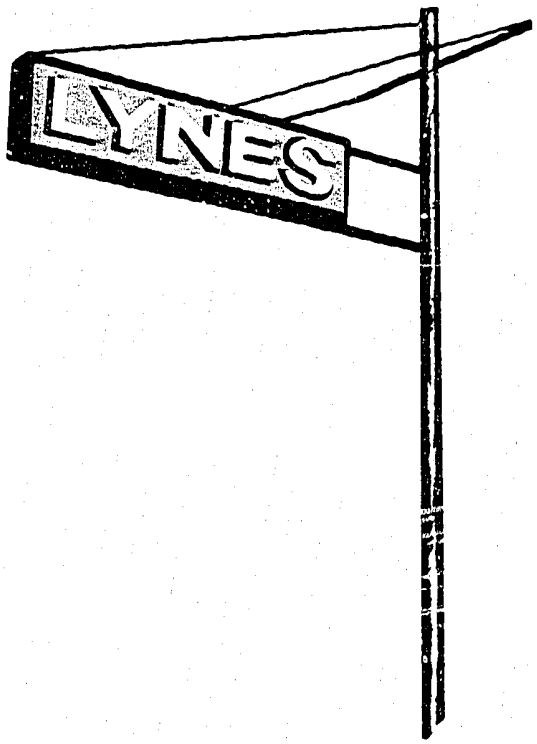
Horn River Decalta et al Trout River D-66 — Well Name and Description

61° 35' 04.00 119° 58' 02.00

#2 — Test No.

March 4/71 — Date of Test

OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory
CALGARY 21, ALBERTA



LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA

CORE ANALYSIS REPORT

FOR

HORN RIVER EXPLORATION LIMITED

HORN R. DECALTA ET AL TROUT D-66
WILDCAT, TROUT LAKE AREA
N. W. T.

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY - EDMONTON - REGINA

CORE LABORATORIES – CANADA LTD.

COMPANY	HORN RIVER EXPLORATION LIMITED	**FORMATION**		**PAGE**	1 OF 3
WELL	HORN R. DECALTA ET AL TROUT D-66	**DRILLING FLUID**	WATER BASE MUD	**FILE**	913-178
FIELD	WILDCAT, TROUT LAKE AREA, N.W.T.	**ELEVATION**		**DATE REPORT**	MAR. 11/71
LOCATION	61 35' 04.00 NORTH LAT.	**ANALYSIS**	FULL DIAMETER	**ANALYSTS**	RM, CC
	119 58' 02.00 WEST LONG.	**REMARKS**	ALL SAMPLES SANDBLASTED PRIOR TO KH ANALYSIS.		

AST = APPEARS SIMILAR TO
* = BROKEN CORE (K30 USED FOR SUMMARY PURPOSES)
** = PERMEABILITY > 2000 MD.
< = PERMEABILITY <
FS = FINE SAND
MS = MEDIUM SAND
CS = COARSE SAND
CONG = CONGLOMERATE
DOL = DOLOMITE
SH = SHALE
LMY = LIMY
SHY = SHALY
/BR = BREAK
BIT = PYROBITUMEN
CARB = CARBONACEOUS
A = ANHYDRITE
FOSS = FOSSILIFEROUS
XLM = CRYSTALLINE
LAM = LAMINATIONS
V = VUGULAR
LV = LARGE VUGS
SV = SMALL VUGS
PPV = PIN POINT VUGS
I = INTERGRANULAR
STY = STYLOLITIC
HF = HORIZONTAL FRACTURE
VF = VERTICAL FRACTURE
SS = SMALL PLUG SAMPLE
SL/ = SLIGHTLY
W/ = VERY
W/ = WITH

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY			
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN		

ALBERTA & NORTHWEST TERRITORIES
OIL & MINERAL DIVISION
MAR 25 1971
CALGARY 22, ALBERTA
EXAMINATION ENGINEER

CORED INTERVAL 1515 - 1565

CORE NO. 1 1515 - 1565 REC. 19.0' 4 BOXES

1	1515.0-15.8	.8	1.91	.99	.44	1.53	7.8	6.24	2.46	2.67	I	PPV
2	1515.8-16.2	.4	.67	.52	.41	.27	7.6	3.04	2.47	2.68	I	PPV
3	1516.2-16.9	.7	469.00	140.00	11.60	328.30	19.0	13.30	2.17	2.68	I	SV
4	1516.9-17.4	.5	77.50	51.90	.60	38.75	9.4	4.70	2.42	2.67	I	SV
5	1517.4-18.2	.8	.22	.18	-0.1	.18	3.7	2.96	2.58	2.68	I	PPV
6	1518.2-19.0	.8	.46	.41	.07	.37	3.6	2.88	2.58	2.68	I	PPV
7	1519.0-19.6	.6	.62	.53	.20	.37	4.7	2.82	2.55	2.68	I	PPV
8	1519.6-20.5	.9	.63	.54	.18	.57	3.9	3.51	2.57	2.67	I	PPV
9	1520.5-21.3	.8	12.80	3.48	.85	10.24	6.6	5.28	2.49	2.67	I	PPV
10	1521.3-21.9	.6	11.60	.53	.28	6.96	8.8	5.28	2.44	2.68	I	PPV F
11	1521.9-22.5	.6	11.70	11.40	.25	7.02	7.2	4.32	2.49	2.69	I	PPV
12	1522.5-23.0	.5	79.80	61.70	3.73	39.90	9.3	4.65	2.44	2.69	I	SV
13	1523.0-23.6	.6	1.28	1.12	.35	.77	5.6	3.36	2.52	2.67	I	PPV
14	1523.6-24.3	.7	9.75	5.31	1.81	6.83	7.7	5.39	2.48	2.69	I	PPV
15	1524.3-25.2	.9	4.54	1.90	.43	4.09	6.9	6.21	2.50	2.69	I	PPV
16	1525.2-25.9	.7	.86	.59	.17	.60	4.0	2.80	2.57	2.68	I	PPV
17	1525.9-26.4	.5	2.03	1.48	.95	1.02	6.7	3.35	2.51	2.69	I	PPV
17A	1526.4-26.7	.3	**	18.00	.21	5.40	16.7	5.01	2.24	2.69	I	LVUG
18	1526.7-27.4	.7	17.00	8.53	2.01	11.90	13.3	9.31	2.33	2.68	I	
19	1527.4-28.1	.7	9.91	1.61	.40	6.94	6.8	4.76	2.51	2.69	I	PPV F
20	1528.1-28.7	.6	9.18	2.68	.25	5.51	8.4	5.04	2.45	2.68	I	SV
21	1528.7-29.3	.6	.70	.63	.29	.42	6.0	3.60	2.52	2.68	I	PPV
22	1529.3-30.5	1.2	7.49	4.10	.74	8.99	10.1	12.12	2.42	2.69	I	PPV
23	1530.5-31.1	.6	20.90	6.92	3.41	12.54	9.6	5.76	2.44	2.70	I	PPV
24	1531.1-31.7	.6	2.61	2.02	.93	1.57	8.3	4.98	2.46	2.68	I	SV

CORE LABORATORIES – CANADA LTD.

COMPANY HORN RIVER EXPLORATION LIMITED
WELL HORN R. DECALTA ET AL TROUT D-65

FILE 913-178

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY, gm./cc.		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
25	1531.7-32.5	.8	7.22	1.74	.66	5.78	9.9	7.92	2.43	2.70	I SV
26	1532.5-33.3	.8	7.72	2.60	1.13	6.18	9.0	7.20	2.44	2.69	I SV
27	1533.3-34.0	.7	5.99	4.00	1.25	4.19	10.9	7.63	2.38	2.67	I SV
	1534.0-65.0	31.0	-	-	-	-	-	-	-	-	LOST CORE

Form 51A

CORE LABORATORIES – CANADA, LTD.

Petroleum Reservoir Engineering

FILE: 913-178

WELL: HORN R. DECALTA ET AL TROUT D-66

FORMATION:

SUMMARY INTERVAL: 1515.0 - 1565.0

TOTAL FOOTAGE: 50.0

FOOTAGE ANALYZED 19.0

FOOTAGE NOT ANALYZED: TOTAL: 31.0 DENSE .0 LOST 31.0 DRILLED .0 *NABR .0 RUBBLE .0

SUMMARY OF ANALYZED CORE:

	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS. %	POROSITY FEET	WEIGHTED AVERAGE PERM. MD.	PERM. FEET	WEIGHTED AVERAGE RESID. OIL %	WEIGHTED AVERAGE TOT. WATER %
TOTAL	19.0	100.00	8.07	153.42	27.22	517.15	.00	.00
BY PERM RANGES:								
LESS THAN 0.10 Md.	.0	.00	.00	.00	.00	.00	.00	.00
0.10 0.49 Md.	1.6	8.42	3.65	5.84	.34	.54	.00	.00
0.50 0.99 Md.	3.2	16.84	4.93	15.77	.70	2.23	.00	.00
1.00 9.99 Md.	8.9	46.85	8.34	74.20	6.00	53.37	.00	.00
GREATER THAN 9.99 Md.	5.3	27.89	10.87	57.61	86.98	461.01	.00	.00

*NOT ANALYZED BY REQUEST

Kenting Oilwell Drilling

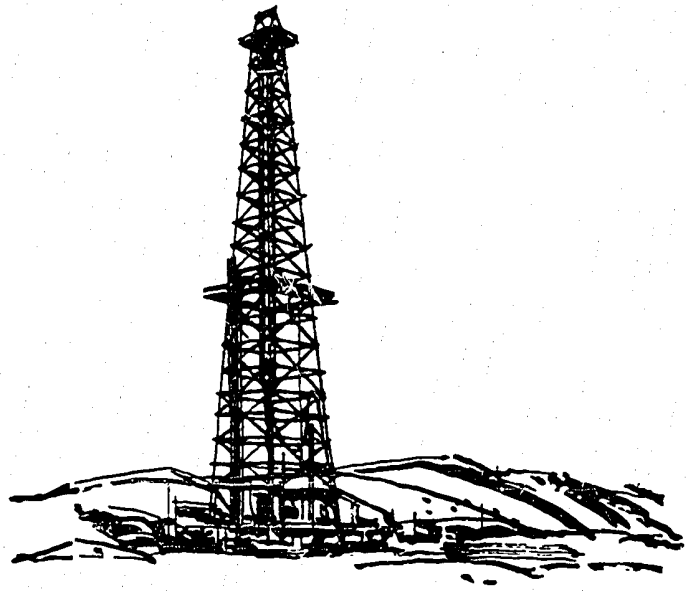
D-66 61° 35' 04.00 119° 58' 02.00

Horn River Decalta et al Trout River #1

LYNES

BRIGHT NAME IN THE OIL PATCH

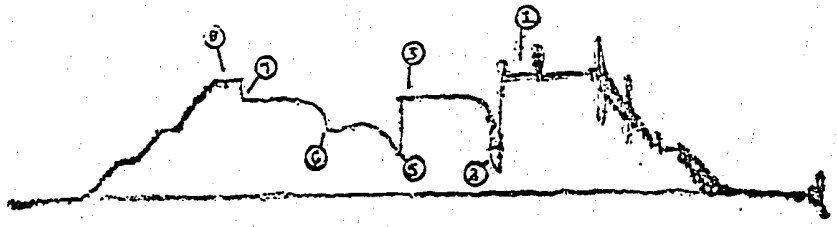
Inflatable and Conventional Packer Tools



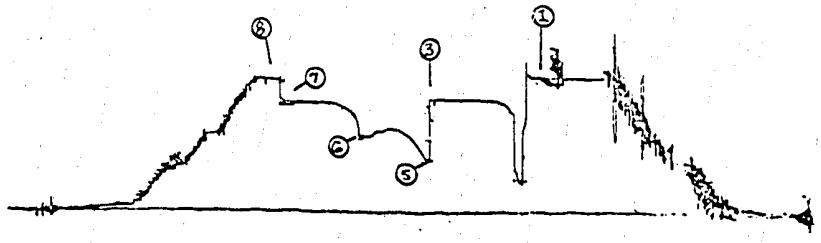
DRILL STEM TEST
TECHNICAL SERVICE REPORT

February 27/71

HORN RIVER DELTA et al TROUT D-66
61°35'04.00 119° 58'02.00 966-8



HORN RIVER DELTA et al TROUT D-66
61°35' 04.00 119° 58' 02.00 1097-1



Recorder Depth 1522 ft. Subsea depth ..... ft. Ticket No. 2112 Hour Recorder No. 966

t_o = 5 Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = 65 Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)
0	----	155				0	---	407	
5	2.000	515				5	14.000	530	
10	1.500	576				10	7.500	564	
15	1.333	590				15	5.333	581	
20	1.250	598				20	4.250	586	
25	1.200	600				25	3.600	590	
30	1.167	603				30	3.167	591	
35	1.143	603				35	2.857	591	
40	1.125	604				40	2.625	591	
45	1.111	604				45	2.444	591	
50	1.100	605				50	2.300	593	
55	1.091	605				55	2.182	593	
60	1.083	605				60	2.083	593	

Recorder Depth ..... ft. Subsea depth ..... ft. Ticket No. ..... Hour Recorder No. .....

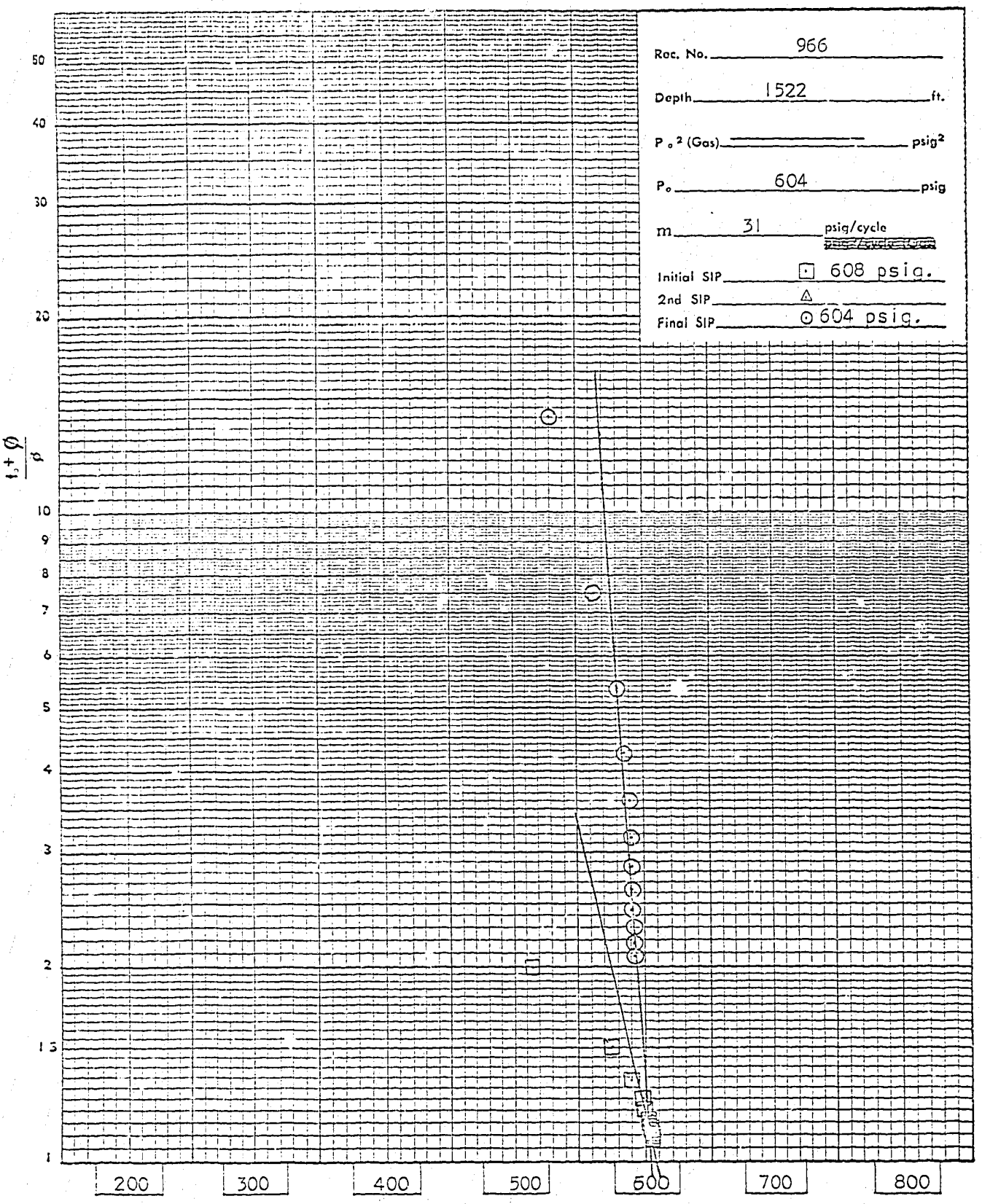
t_o = Mins. Initial Shut-In Pressure				Second Flow Pressure		t_o = Mins. Final Shut-In Pressure			
Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ Ø	Time Defl. .000"	PSIG	Time, Min. Ø	$\frac{t_o + Ø}{Ø}$	PSIG	PSIG² ÷10⁶ (Gas)

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
1971
CALGARY 21, ALBERTA
Oil Conservation Engineer
Northwest Territories & Yukon Territory

Interval of Pressure Readings (Mins.) ISIP 5 2nd Flow Press. FSIP 5

Remarks: DST #1

PRESSURE DATA



DST # 1

PRESSURE EXTRAPOLATION PLOT

LYNES UNITED SERVICES LTD.

TEST DATA

Test No. 1 Lynes Test 1

Formation: Horn Plateau Reef T.D. Ft.

Interval Tested: 1511 Ft. to 1565 Ft.

Feet of Net Pay Tested: 54 Ft.

Type of Test: Bottom Hole Conventional

Cushion: Amount Ft.

Started in Hole at 2400 Hrs. Tool Open at 0240 Hrs.

Pre-Flow 5 Mins. Initial Shut-in 60 Mins.

2nd Flow Mins. Second Shut-in Mins.

Final Flow 60 Mins. Final Shut-in 60 Mins.

Remarks:

Blow: Good initial blow in pail.

GENERAL INFORMATION

Company: Kenting Oilwell Drilling

Address:

Well Name: Horn River Decalta et al Trout River

Well Number: D-66- 61o 35' 04.00 119o 58' 02.00

K.B. Elevation: Sub-Sea Elevation:

Area: Province:

Company Rep.:

Tester: H. Bell

Contractor: Kenting Rig No. 57

Ticket No. 2112 Date February 27/71

Service Reports To:

5 - James A. Lewis Engineering Ltd.
+ 40 xeroxed copies.

GAS BLOW MEASUREMENTS

Measured with: Too small to measure.
Gas to surface in 10 minutes.
Fluid to surface in 40 minutes.

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA

Mud Type: Gel

Weight 9.4 Viscosity 80 Water Loss 9.8

Filter Cake 2/32" Bottom Hole Temperature

Drill Pipe Size 3 1/2" IF Weight

Drill Collars 3 1/2" IF I.D. Feet Run

Main Hole or Casing Size 6 1/4"

Rathole or Liner Size No. of Feet

Bottom Hole Choke Size 5/8"

Surface Choke Size 1"

Packer Rubber Size 5 1/2"

REMARKS Shut-in pressures suggest average permeability within the interval tested.

RECOVERY

TOTAL FLUID RECOVERED 800 Ft. Consisting of:

800 Ft. of black sulphurous salt water

Ft. of

Ft. of

Ft. of

Test was/was not Reverse Circulated was not

Oil Recovery A.P.I. Water Specific Gravity

Salinity

PRESSURE READINGS

	Inside / Outside X	Inside / Outside X	Inside / Outside	Inside / Outside
Recorder No.	966	1097		
Capacity	5000	4480		
Depth	1522	1526		

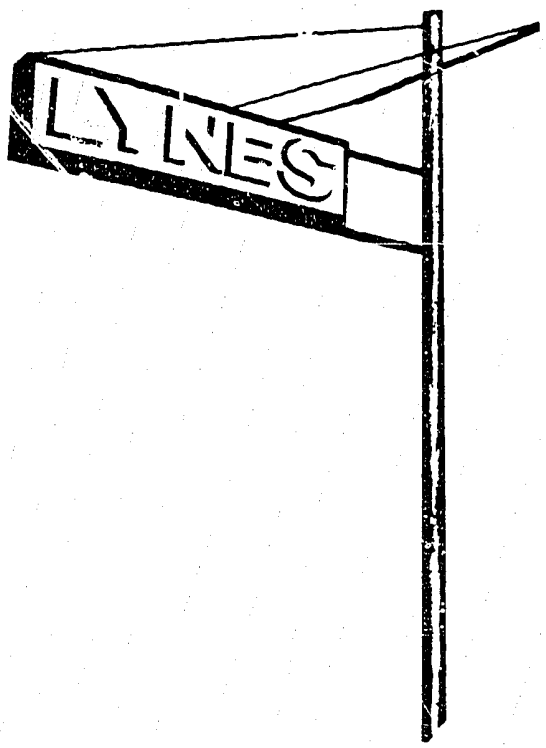
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	725	731		
2 - PRE-FLOW	155	175		
3 - INITIAL SHUT-IN	605	614		
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	270	281		
6 - FINAL FLOW	407	413		
7 - FINAL SHUT-IN	593	596		
8 - FINAL HYDROSTATIC	718	722		

Company: Kenting Oilwell Drilling

Well Name and Description: Horn River Decalta et al Trout River D-66 61° 35' 04.00 119° 58' 02.00

Test No. #1

Date of Test: February 27/71



LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA

Kentina Oilwell Drilling

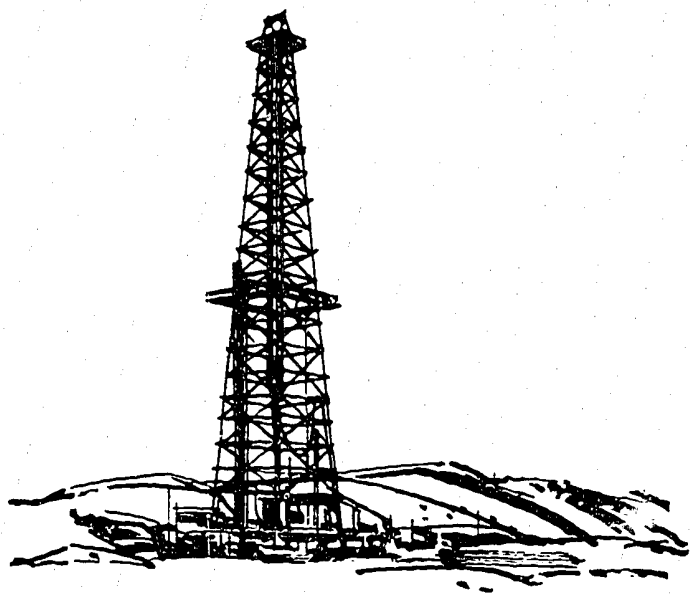
61° 35' 04.00 119° 58' 02.00

Horn River Pegalta et al Trout River P-66

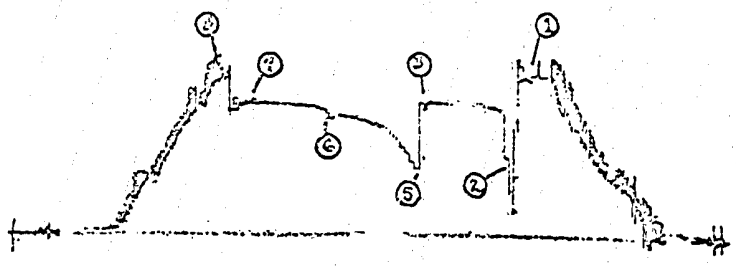
LYNES

BRIGHT NAME IN THE OIL PATCH

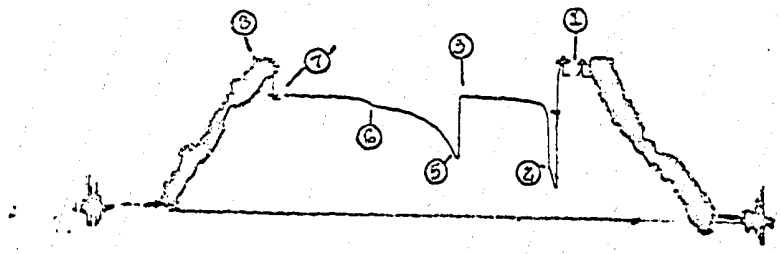
Inflatable and Conventional Packer Tools



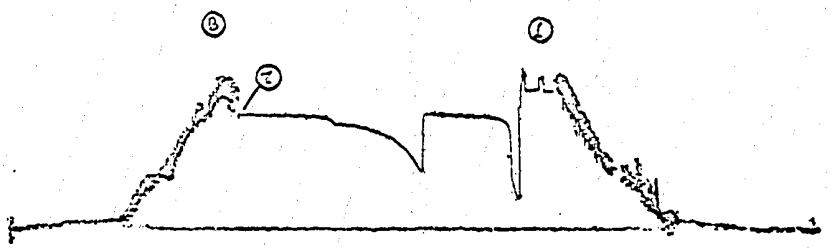
HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 58' 02.00 1997-3



HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 58' 02.00 2816-3



HORN RIVER DECALTA et al TROUT RIVER D-66
61° 35' 04.00 119° 58' 02.00 966-3
BELOW BOTTOM PACKER
PACKER FAILED



LYNES UNITED SERVICES LTD.

TEST DATA			
Test No. 3		Lynes Test 3	
Formation Horn Plateau Reef		T.D. 2265 Ft.	
Interval Tested 1481 Ft. to 1509 Ft.			
Feet of Net Pay Tested 28 Ft.			
Type of Test Conventional Straddle			
Cushion	Amount Ft		
Started in Hole at 0900 Hrs.	Tool Open at 1135 Hrs.		
Pre-Flow 5 Mins.	Initial Shut-in 60 Mins.		
2nd Flow Mins.	Second Shut-in Mins.		
Final Flow 60 Mins.	Final Shut-in 60 Mins.		
Remarks:			

Blow: Good initial blow in pail.
Gas to surface in 25 minutes.

GENERAL INFORMATION	
Company	
Address	
Well Name	Horn River Decalta et al Trout River
Well Number	D-66 61o 35' 04.00 119o 58' 02.00
K.B. Elevation	Sub-Sea Elevation
Area	Province
Company Rep.	B. Gallup
Tester	H. Bell
Contractor	Big Indian Rig No. 57
Ticket No. 2114	Date March 5/71
Service Reports To:	
	5 - James A. Lewis Engineering Ltd
	+ 40 xeroxed copies.

GAS BLOW MEASUREMENTS	
Measured with	Too small to measure.

Time	Surface Choke	Reading Inches	Cubic Feet/Day

MUD AND HOLE DATA	
Mud Type	Gel
Weight 9.2	Viscosity 80 Water Loss
Filter Cake 2/32"	Bottom Hole Temperature
Drill Pipe Size 3 1/2" IF	Weight
Drill Collars 3 1/2" IF	I.D. Feet Run
Main Hole or Casing Size	6 1/4"
Rathole or Liner Size	No. of Feet
Bottom Hole Choke Size	5/8"
Surface Choke Size	1"
Packer Rubber Size	5 1/2"

REMARKS: Bottom packers did not hold. Lower recorder indicates that the bottom packers failed. Misrun.

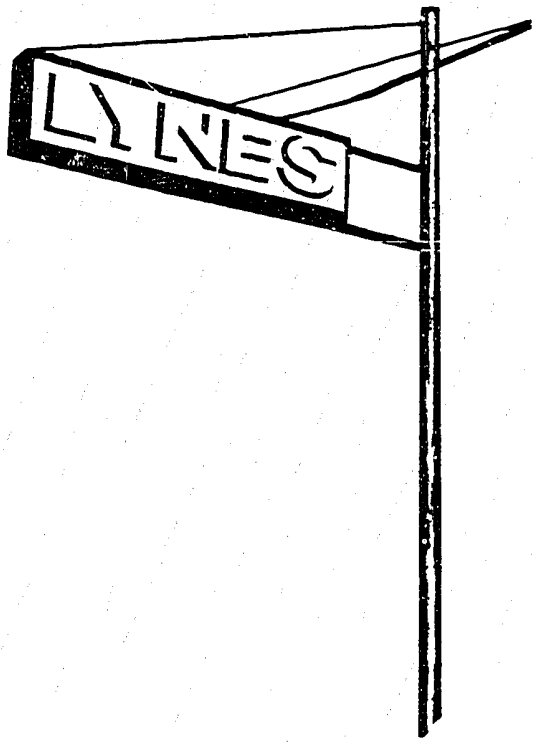
RECOVERY	
TOTAL FLUID RECOVERED 1250 Ft. Consisting of:	
1250= Ft. of muddy salt water	
Ft. of	
Ft. of	
Ft. of	
Test was/was not Reverse Circulated	
Oil Recovery A.P.I.	Water Specific Gravity
Salinity	

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
1971
CALGARY 21, ALBERTA
Northwest Territories & Yukon Territory

PRESSURE READINGS

	Inside ___ Outside X	Inside ___ Outside X	Inside X Outside ___	Inside ___ Outside ___
Recorder No.	1097	2816	966	
Capacity	4100	4600	5000	
Depth	1500	1504	1528	
NUMBER KEY:				
1 - INITIAL HYDROSTATIC	741	730	758	
2 - PRE-FLOW	188	250	265	
3 - INITIAL SHUT-IN	611	610	625	
4a - 2nd INITIAL FLOW				
4b - 2nd FINAL FLOW				
4c - 2nd SHUT-IN				
5 - 3rd INITIAL FLOW	302	289	316	
6 - FINAL FLOW	558	553	574	
7 - FINAL SHUT-IN	607	604	625	
8 - FINAL HYDROSTATIC	737	719	755	

Company: Kenting Oilwell Drilling
Well Name and Description: Horn River Decalta et al Trout River D-66 61° 35' 04.00 , 119° 58' 02.00
Test No.: #3
Date of Test: March 5/71



LYNES UNITED SERVICES LTD. 262-4501 CALGARY, ALBERTA

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River - Recette stat Trout River - D-66 DATE March 24/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 1 — MIDN. TO 8 A.M.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson	8					8
HELPER J. Ottenbreit	8					8
HELPER Gary Hofmann	8					8
Sam Smith	8					8
TOTAL						

INJURIES AND REMARKS:

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 2 — 8 A.M. TO 4 P.M.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER						
HELPER						
HELPER						
TOTAL						

INJURIES AND REMARKS:

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 3 — 4 P.M. TO MIDN.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER						
HELPER						
HELPER						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT./TIME	TO FT./RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
		Ran 34 joints "A" 9 5/8" 36# new Tokodashi Casing w/ ST+C Range 3, 8rd Grade J 55. Total length 1640.44 handled @ 1637 R.B. Used 8 scratchers on 234 joints 4 Centralizers on 1357 1 Baker float shoe 1 " " Collar
		Used 40 sx Cal. Cement Slurry 15.2 lb/gal Plug bumped w/ 800 PSI. Float held OK. Plug down @ 9 PM
		Baker Shut down @ 2 PM D.J.C.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Come out laying down Pipe	12 00	2 30	2 1/2
	Rig to & run csg.	2 30	6 00	3 1/2
	Circ csg & Rig to cement	6 00	8 00	2
				8

DRILLER

COMPANY TIME CONT'R TIME

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION Trout River - D-66 DATE March 24/71

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Circ & Rig to Cement	8 00	8 30	1/2
	Cementing	8 30	9 15	3/4
	Jean out to Mave	9 15		
	Lift BOP. set slips			
	Install bonnet & weld on well head		1 30 PM	
	Rig Released @ 1 30 PM Mar 24/71 D.J.C.			

DRILLER

COMPANY TIME CONT'R TIME

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL

DRILLER

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Hoch River - Decalta - Tal Trout River - D.Lake DATE March 6/72

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

TOUR 1 — TO 8 A.M.

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						4
HELPER Gary Hofmann						8
Sam Smith						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

Plugged Hole back from 2265-1850

Used 70 sxs Class A Cement w/ 1 4% gel

Plug down @ 2 45 AM D.J.C

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Pick up & run 12 singles & Circ	12 00	1 00	1
	Rig to & run cement	1 00	1 45	3/4
	Circ & wait on csg	1 45	8 00	6 1/4
				8

DRILLER

COMPANY TIME CONT'R TIME

TOUR 2 — TO 8 A.M.

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	136		10	TEMPERATURE:	10	5
W. TRUCK	47		25	WIND VELOCITY:	—	
MOB. PUMP	118			RAIN, SNOW, FOG, ETC.	CLEAR	

GENERAL: 136

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER H. Wheeldon						8
HELPER J. Ottenbreit						8
HELPER H. Higgins						9
V. Higgins						8
TOTAL L. Goddold						8

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Circulate & Wait on Casing	8 00	4 00	

DRILLER

COMPANY TIME CONT'R TIME

TOUR 3 — TO 4 P.M.

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	144			TEMPERATURE:	0	0
W. TRUCK	55.5		25	WIND VELOCITY:	5	10
MOB. PUMP	126		50	RAIN, SNOW, FOG, ETC.	—	

GENERAL: 144

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						12
HELPER L. Bourassa						12
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Wait on Casing	4 00	11 00	7
	Start to pull out.	11 00	12 00	1

DRILLER G. Jacobson

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO. .....

RIG. NO. 57 LOCATION Horn River Decolta-etal Trout River R66 DATE March 5th/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						12
HELPER Walter Federuk						9
HELPER Gary Hofmann						8
Sam Smith						8
TOTAL						

INJURIES AND REMARKS:

TOUR 1 — MIDN. TO 8 A.M.

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. /	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
			DST #2 - 1481 1513 Missing Bottom packer seat failed

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Make up Test head	12 00	12 30	1/2
	Testing	12 30	4 00	3 1/2
	Breakdown test head	4 00		
	& pull out to Test Tool		5 30	1 1/2
	Break down Test Tool	5 30	7 00	1 1/2
	Pick up test tool &	7 00		
	rerun		8 00	1
				8
	DRILLER			

COMPANY TIME ..... CONT'R TIME .....

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	112		50	TEMPERATURE:	15	0°
W. TRUCK	23		2	WIND VELOCITY:	2	mph
MOB. PUMP	94			RAIN, SNOW, FOG, ETC.	Cloudy	

GENERAL: 112

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER R. Wheldon						8
HELPER H. Higgins						8
HELPER V. Higgins						8
E. Hofmann						4
TOTAL						

INJURIES AND REMARKS:

TOUR 2 — 8 A.M. TO 4 P.M.

DST - 1481 - 1511 Missing - Bottom Packer seat failed

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Make up DST #2	8 00	9 00	1
	Run in Tool	9 00	10 30	1 30
	TEST	10 30	1 30	3
	Pull DST #2	1 30	3 00	1 30
	SERVICE TOOL	3 00	4 00	1
				8
	DRILLER R. Wheldon			

COMPANY TIME ..... CONT'R TIME .....

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	120			TEMPERATURE:	10	10
W. TRUCK	31		25	WIND VELOCITY:	—	—
MOB. PUMP	102		0	RAIN, SNOW, FOG, ETC.	—	—

GENERAL: 120

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						10
HELPER L. Bourassa						14
HELPER M. Meehan						10
L. Thomas						10
TOTAL						

INJURIES AND REMARKS:

TOUR 3 — 4 P.M. TO MIDN.

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Service tool	4 00	4 15	1/4
	Wait on orders	4 15	5 00	3/4
	Lay down tool	5 00	6 00	1
	Work on accumulators	6 00	7 30	1 1/2
	Run in D.C. &	7 30		
	Lay down		10 30	3
	Run in rest of pipe	10 30		
	& pick up singles		12 00	1 1/2
	DRILLER G. Jacobson			

COMPANY TIME ..... CONT'R TIME .....

TOTAL CONTRACT TIME ..... HRS. TOOLPUSHER OR DRILLER: [illegible]

TOTAL COMPANY TIME ..... HRS. APPROVED BY .....

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River - Decalta - etal Trent River D-66 DATE March 4th 1971

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		2145	2230							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 1/4	OWV	J62443	23000	90	160		13			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	9.0	8.8		9.1
VISC.	37	35		35
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1. 3 Sacks Rapidril
2. 22 Sacks Gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
350	50	2150	700	52	2210			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	80		
W. TRUCK	298		
MOB. PUMP	62		
GENERAL	80		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-15	-20
WIND VELOCITY:	15	15
RAIN, SNOW, FOG, ETC.	snow	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hofmann						8
Sam Smith						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
		Water Cost $165.00

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Hook up kelly hose, break Circ & Circ out	12 00		
	Fill & Rig Serv		12 30	1/2
	Drlg 6 1/4 hole	12 30	8 00	7 1/2
				8

DRILLER

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		2235	2265							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 1/4	OWV	178458	20	75	190		17			

MUD	8 A.M.	10A.M.	12 Noon	2 P.M.
WT.	9.3	9.5	9.7	
VISC.	36	37	43	
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
400	50	2250				2265	1 3/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	88		
W. TRUCK	306		250
MOB. PUMP	70		
GENERAL	88		

WEATHER	8 A.M.	NOON
TEMPERATURE:	-20	-0
WIND VELOCITY:	—	
RAIN, SNOW, FOG, ETC.	CLEAR	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER H. WHEELDON						8
HELPER J. OTTENBREIT						8
HELPER H. HIGGINS						8
V. HIGGINS						8
TOTAL						

INJURIES AND REMARKS:

Ran I.E.S. log from TD 2265' to 243' K.B.

Ran BSGRC log from TD 2265' to 243' K.B.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRILL	8 00	12 45	4.45
	SURVEY - RIG SERVICE	12 45	1 00	.15
	CIRCULATE	1 00	1 30	.30
	TRIP TO LOG	1 30	2 30	1
	LOG	2 30	4 00	1 30
				8

DRILLER H. Wheeldon

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:				2265						

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	96		
W. TRUCK	7		250
MOB. PUMP	78		0
GENERAL	96		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	0	0
WIND VELOCITY:	5	5
RAIN, SNOW, FOG, ETC.	—	

Change Oil & filters - Lite plant

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Jacobson						8
HELPER L. Bourassa						8
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Logging	4 00	8 00	4
	Strap pipe & run in tail pipe - Make up test - Run to bottom	8 00	12 00	4
				8

DRILLER A. Jacobson

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER I/c ____

TOTAL COMPANY TIME ____ HRS. APPROVED BY ____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River Decaltactal Trout River 12-66 DATE March 3/71

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		2038	2075							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			4	6¼	OWC	J132	22000	80	80		18½			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	8.6	8.7	8.7	8.8
VISC.	30	34	32	34
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1. 2 Saxs Rapidrill
2. 25 Saxs Gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ± LOG TO DEPTH
350	50	2040	350					

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	72		
W. TRUCK	290		
MOB. PUMP	54		
GENERAL	72		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-15	30
WIND VELOCITY:	15	25
RAIN, SNOW, FOG, ETC.	–	–

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						9
HELPER Gary Hetmann						8
Sam Smith						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. /	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
			Trip Cost 1100
			192

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drlg 6¼ Hole	12 00	1 30	1½
	Rig Serv	1 30	1 45	¼
	Drlg 6¼ Hole	1 45	7 15	5½
	Trip for Bit	7 15	8 00	¾
				8

DRILLER

COMPANY TIME CONT'R TIME

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		2075	2140							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6¼	OWS	062443	20000	80	65		5			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.		9.8	9.8	8.9
VISC.		34	32	32
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER WATER GALS.
1. Gel 4 sal
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ± LOG TO DEPTH
1225	50	2080						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	80		50
W. TRUCK	298		2
MOB. PUMP	162		
GENERAL	80		

WEATHER	8 A.M.	NOON
TEMPERATURE:	-30	0°
WIND VELOCITY:	6 mph	
RAIN, SNOW, FOG, ETC.	CLEAR	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Wheeldon						8
HELPER J. Osborne						8
HELPER H. Higgins						8
V. Higgins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Trip	8 00	10 45	2.45
	DRILL	10 45	12 45	2
	RIG SERVICE	12 45	1 00	.15
	DRILL	1 00	4 00	3
				8

DRILLER A. Wheeldon

COMPANY TIME CONT'R TIME

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		2140	2145							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6¼	OWUS	012443	20000	80	7.0		5½			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.0			
VISC.	35			
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ± LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	88		
W. TRUCK	306		250
MOB. PUMP	70		50
GENERAL	88		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	0	-5
WIND VELOCITY:	5	15
RAIN, SNOW, FOG, ETC.	–	–

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Beaucasse						8
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling	4 00	4 30	½
	Twisted off - Pull out.	4 30	5 15	¾
	Work on O-shot	5 15		
	Run in - pick up fish.		8 00	2¾
	Pull out - lay down	8 00		
	O-shot & single		10 45	2¾
	Run in	10 45	12 00	1¼
				8

DRILLER G. Jacobson

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River Decalta et al Trout River D-66 DATE March 2nd 1971

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1905	1958							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			3	6¼	OWC	956820	20000	75	114		16¾			
						20048								

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	8.7	8.9	8.9	9.0
VISC.	35	36	35	35
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1. 1 Sax Rapidril
2. 14 Saxs Gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
375	50	1905	375	50	1945			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	40		60
W. TRUCK	258		50
MOB. PUMP	222		50
GENERAL	40		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	10	
WIND VELOCITY:	–	
RAIN, SNOW, FOG, ETC.	–	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hatmann						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT.	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
			Water Cost $901.00

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drlg 6¼ Hole	12 00	2 45	2¾
	Rig Serv.	2 45	3 00	¼
	Drlg 6¼ Hole	3 00	8 00	5
				8
	DRILLER			

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1958	1965							
			1965	1995							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			3	6¼	OWCJ	200118	20000	80	130		17¾			
			4	6¼	OWCJ	130616	20000	80	30		3½			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.1		8.9	8.9
VISC.	35		36	37
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1. Gel 3 sacs
2. Rapid Drill 1 sac
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
350	50	1970				1983	1½	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	56		50
W. TRUCK	274		2
MOB. PUMP	238		
GENERAL	56		

WEATHER	8 A.M.	NOON
TEMPERATURE:	-5°	+15°
WIND VELOCITY:	–	
RAIN, SNOW, FOG, ETC.	Cloudy	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Wheeldon						8
HELPER J. Otenbbeit						8
HELPER H. Higgins						8
H. Higgins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRILL	8 00	9 00	1
	TRIP - CHECK BOP'S	9 00	12 00	3
	RIG SERVICE	12 00	12 15	15
	DRILL	12 15	2 15	2
	SURVEY	2 15	2 30	15
	DRILL	2 30	4 00	1 30
				8
	DRILLER A. Wheeldon			

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1995	2038							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			4	6¼	132614	OWCJ	20000	80	43		11¼			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	8.8	8.7	8.6	8.6
VISC.	38	32	30	32
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1. 10 sacs gel
2. 2 sacs rapidril
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
350	50	2000						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	64		75
W. TRUCK	282		50
MOB. PUMP	276		
GENERAL	64		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	15	5
WIND VELOCITY:	5	10
RAIN, SNOW, FOG, ETC.	–	–

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER C. Jacobson						8
HELPER L. Bourassa						8
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling	4 00	6 45	2¾
	Rig Serv.	6 45	7 00	¼
	Drilling	7 00	12 00	5
	DRILLER C. Jacobson			

COMPANY TIME ____ CONT'R TIME ____ 8

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER i/c ____

TOTAL COMPANY TIME ____ HRS. APPROVED BY ____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River Decalta et al Trout River D-66 DATE March 1st/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1695	1803							

TOUR 1

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEF	COND.
			2	6¼	OWC	95620	20	75	238		14¾			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	8.7	9.	9.2	
VISC.	39	35	35	
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1. 1 Sax Rapidrill
2. 7 Sax Gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
500	50	1700						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	24		
W. TRUCK	242		40
MOB. PUMP	206		2
GENERAL:	24		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	0	-10
WIND VELOCITY:	–	–
RAIN, SNOW, FOG, ETC.	–	–

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Federuk						9
HELPER Gary Heffmann						8
TOTAL						

INJURIES AND REMARKS:

TO MIDN. / TO 8 A.M.

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drlg. 6¼ Hole	12 00	1 30	1½
	Rig. Serv	1 30	1 45	¼
	Drlg 6¼ Hole	1 45	8 00	6¼
				8

DRILLER Chuck Hutchinson

COMPANY TIME ____ CONT'R TIME ____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION Trout River D-66 DATE March 1st/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1803	1835							
				1846							

TOUR 2

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			2	6¼	OWCJ	95603	20	75	270		17¾			
			3	6¼	OWCJ	20048	20	75	9		1¼			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.6	9.3		9.8
VISC.	38	40		37
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER 1" Stabilizer GALS.
1. Gel 1 Sax
2. Rapidrill 1 "
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
250	40	1850	350	40	1840	1835	1¾	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	32		0
W. TRUCK	250		5
MOB. PUMP	214		2
GENERAL:	32		

WEATHER	8 A.M.	NOON
TEMPERATURE:	-15°	0°
WIND VELOCITY:	3 mph	
RAIN, SNOW, FOG, ETC.	CLEAR	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Wheeldon						8
HELPER J. Ostenberg						8
HELPER H. Higgins						8
H. Higgins						8
TOTAL L. Goddelo						8

INJURIES AND REMARKS:

TO 4 P.M. / TO 8 A.M.

5" Head Rubbers off side
1 Valve Rubber

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig Service	8 00	8 15	15
	Drill c ~~Survey~~	8 15	11 15	3 00
	Trip c Survey	11 15	2 15	3 00
	Work on Pump	2 15	2 45	30
	Drill	2 45	4 00	1 15
				8

DRILLER A. Wheeldon

COMPANY TIME ____ CONT'R TIME ____

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1844	1905							

TOUR 3

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			3	6¼	OWCJ	20048	20	75	61		9			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.0	9.0	9.0	8.8
VISC.	34	39	38	34
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1. 4 sacs gel
2. 3 sacs Rapidrill
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
350	50	1845						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	40		
W. TRUCK	258		250
MOB. PUMP	222		
GENERAL:	40		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	15	15
WIND VELOCITY:	–	–
RAIN, SNOW, FOG, ETC.	–	–

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Bourassa						8
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

TO MIDN. / TO 4 P.M.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling	4 00	6 15	2¼
	Rig Serv	6 15	6 30	¼
	Drilling	6 30	12 00	5½
				8

DRILLER G. Jacobson

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER

TOTAL COMPANY TIME ____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO. ____

RIG. NO. 57 LOCATION Horn River Desalta etal Trout River 12-66 DATE Feb. 28/71

BIG INDIAN DRILLING CO. LTD. PROJECT NO. ____

LOCATION Trout River 12-66 DATE Feb. 28/71

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.

1. ____
2. ____
3. ____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER						
HELPER Walter Fedoryk						8
HELPER						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE III 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL

DRILLER

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1565								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		2	6¼	OWC	95603								

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.

1. ____
2. ____
3. ____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	8			TEMPERATURE:	-10°	10°
W. TRUCK	226		250	WIND VELOCITY:	—	
MOB. PUMP	198			RAIN, SNOW, FOG; ETC.	CLEAR	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER R. Wheeldon						8
HELPER J. Ottenbreit						7
HELPER H. Higgins						7
L. Goodold						8
TOTAL V. Higgins						7

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE III 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
		Changed oil - Lite Plant Rig Motor Air Breathers - Filters

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Wait on Parts	8:00	9:30	1.30
	Assemble Draw Works	9:30	3:00	5½
	Run in	3:00	4:00	~~30~~ 8

DRILLER [signature]

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1565	1695							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		2	6¼	OWC J	95603	20000	70	130		7			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.		9.6	9.1	9.0
VISC.		56	53	42
GEL.				

W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.

1. 4 sacs Rapid drill
2. 1 sac Caustic
3. ____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
500	50	1670						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	16			TEMPERATURE:	10	10
W. TRUCK	234		250	WIND VELOCITY:	—	—
MOB. PUMP	198			RAIN, SNOW, FOG; ETC.	—	—

GENERAL: 16

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Bourassa						8
HELPER M. Meehan						8
L. Thomas						12
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE III 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Run in - Ream Hole	4:00	5:00	1
	Drilling	5:00	12:00	7

DRILLER G. Jacobson

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER [signature]

TOTAL COMPANY TIME ____ HRS. APPROVED BY ____

BIG INDIAN DRILLING CO. LTD — PROJECT NO. ____

RIG. NO. 57 — LOCATION Horn River Decalta etal Trout River 12-66 — DATE Feb. 27/71

BIG INDIAN DRILLING CO. LTD. — PROJECT NO. ____

LOCATION Trout River 12-66 — DATE Feb. 27/71

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1565								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	227			TEMPERATURE:	-20	-20
W. TRUCK	194		28	WIND VELOCITY:	—	—
MOB. PUMP	158			RAIN, SNOW, FOG; ETC.	—	—
GENERAL:	268					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Bourassa						9
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. /	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
			Tool Rest
			MOB @ 75.00
			DST #1 - 1511 - 1565
			Tool Open @ 2 35 A.M.
743	P.S.I		Initial Hydro
610	"		Initial Shut In
152	"		Initial Flow
406	"		Final Flow
610	"		Final Shut In
733	"		Final Hydrostatic
5	Min		Preflow
1	hr		I.S.I.
1	"		Flow
1	"		F.S.I.
Recovered 800' Black			
salt water. Gas to			
surface in 10 min to			
small a flow to measure			
Flow rate gauged by			
water			
Tested by Lynes United			

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Run in w/ test -	12 00		
	head up		2 45	2 3/4
	Testing	2 45	5 45	3
	Pull Test.	5 45	8 00	2 1/4
	DRILLER G. Jacobson			
	COMPANY TIME ____ CONT'R TIME ____			8

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1565								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	235			TEMPERATURE:		
W. TRUCK	202			WIND VELOCITY:		
MOB. PUMP	166			RAIN, SNOW, FOG; ETC.		
GENERAL:	226					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hofmann						8
Sam Smith						8
TOTAL Lorne Godbold						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Break down test	8 00		
	Tools & load out same		9 30	1 1/2
	Take cat heads off	9 30		
	& apart & wait on			
	parts		4 00	6 1/2
				8
	DRILLER			
	COMPANY TIME ____ CONT'R TIME ____			

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1565								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	243		0	TEMPERATURE:	5°	0°
W. TRUCK	210		0	WIND VELOCITY:	—	
MOB. PUMP	174		2	RAIN, SNOW, FOG; ETC.	Cloudy	
GENERAL:	284					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER H. WHEELDON						8
HELPER J. OTTENBREIT						5
HELPER H. HIGGINS						5
V. HIGGINS						6
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Work on Draw Works	4 00		
	& Wait on Prices		8 00	
	DRILLER [signature]			
	COMPANY TIME ____ CONT'R TIME ____			

TOTAL CONTRACT TIME ____ HRS. — TOOLPUSHER OR DRILLER [signature]

TOTAL COMPANY TIME ____ HRS. — APPROVED BY ____

BIG INDIAN DRILLING CO. LTD. PROJECT NO. _____

RIG. NO. 57 LOCATION Horn River Decalta etal Trout River D-66 DATE Feb. 26/71

BIG INDIAN DRILLING CO. LTD. PROJECT NO. _____

LOCATION Trout River D-66 DATE Feb. 26/71

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1515	1518							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
				◆	FC966	5m	80	3		1/2			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	203		25
W. TRUCK	170		
MOB. PUMP	134		0

GENERAL: 244

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	0	-5
WIND VELOCITY:	5	5
RAIN, SNOW, FOG, ETC.	—	—

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER C. Jacobson						8
HELPER L. Beauregard						8
HELPER M. Meehan						8
L. Thomas						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT.	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Pull out of hole	12:00	1:15	1 1/4
	Rig Serv. - Thaw out core barrel	1:15	1:45	1/2
	Run in w/ Barrel	1:45		
	Trouble w/ hoisting cable		6:00	4 1/4
	Break Circ. -	6:00		
	Reaam to bottom		7:30	1 1/2
	Coring	7:30	8:00	1/2

DRILLER G. Jacobson

COMPANY TIME _____ CONT'R TIME _____ 8

Core #1 - 1515-1565
Decreased 25'

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			6 3/16	◆	FC911	11000	95	50		8 1/2			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.5		9.2	9.1
VISC.	80		50	40
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. Water
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
1000	50		1000	50				

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	211		
W. TRUCK	176		
MOB. PUMP	142		

GENERAL: 252

WEATHER	8 A.M.	NOON
TEMPERATURE:	-10	
WIND VELOCITY:	—	
RAIN, SNOW, FOG, ETC.	—	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hofmann						8
Sam Smith						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Coring	8:00	4:00	8
				8

DRILLER _____

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	219		50
W. TRUCK	184		
MOB. PUMP	150		25

GENERAL: 260

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	5°	0°
WIND VELOCITY:	20 mph	
RAIN, SNOW, FOG, ETC.	Cloudy	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Wilkinson						8
HELPER J. Steenbaert						8
HELPER H. Higgins						8
H. Higgins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Pull out Core Barrel	4:00	6:15	2:15
	Recover Core	6:15	8:00	1:45
	Wait on Orders	8:00	9:30	1:30
	Pick up Test Tools	9:30	12:00	2:30

DRILLER [signature]

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER [signature]

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Horn River Decalta etal Trout River D-66 DATE Feb 25/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1515								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 1 — TO — MIDN.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	179		
W. TRUCK	146		250
MOB. PUMP	110		
GENERAL:	220		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-5	-10
WIND VELOCITY:	10	10
RAIN, SNOW, FOG, ETC.	—	—

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Bourassa						9
HELPER L. Thomas						12
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT./TIME	TO FT./TIME	RATE IN 16PM	DESCRIPTION	DEPTH TO WATER IN FT.
			Water Cost 123.50	

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig Serv.	12 00	12 15	1/4
	Pull out to core	12 15	1 45	1 1/2
	Pick up core barrel	1 45		
	Run in hole		5 15	3 1/2
	Barrel plugged - try to unplug - work pipe	5 15	6 00	3/4
	Pull out.	6 00		
	Try circulating one way out - couldn't		8 00	2 00

DRILLER G. Jacobson.

COMPANY TIME CONT'R TIME 8

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION Trout River D-66 DATE Feb 25/71

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1515								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 2 — TO — 8 A.M.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.			60	
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	187		
W. TRUCK	134		
MOB. PUMP	118		
GENERAL:	228		

WEATHER	8 A.M.	NOON
TEMPERATURE:		15
WIND VELOCITY:		10
RAIN, SNOW, FOG, ETC.	—	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						4
HELPER Walter Fedoruk						8
HELPER Gary Hofmann						12
Sam Smith						4
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Finish pulling out To Core barrel	8 00	8 30	1/2
	Mix mud & wait on Water	8 30	10 30	2
	Try To pressure up on core barrel To un plug	10 30	11 00	1/2
	Pull core barrel & break down To unplug	11 00	4 00	6

DRILLER

COMPANY TIME CONT'R TIME 8

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1515								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
				6 1/4	RR									

TOUR 3 — TO — 4 P.M. — MIDN.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				9.4
VISC.				65
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	195		50
W. TRUCK	163		2
MOB. PUMP	126		
GENERAL:	236		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	5°	0°
WIND VELOCITY:	5 mph	
RAIN, SNOW, FOG, ETC.		

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER B. Wheeldon						8
HELPER J. Ottenbreit						8
HELPER H. Higgins						12
V. Higgins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	CLEAN & SERVICE CORE BARREL	4 00	5 30	1 30
	CLEAN OUT HOLE	5 30	9 00	3 30
	CIRCULATE	9 00	10 30	1 30
	PULL OUT	10 30	12 00	1 30

DRILLER

COMPANY TIME CONT'R TIME 6

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO. _____

RIG. NO. 57 LOCATION Horn River Decalta etal Trout River D-66 DATE Feb. 24/71

TOUR 1 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		355	878							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DTJ	FJ930	15000	180	603		9			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	8.4	8.5	8.7	9.2
VISC.				
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER ____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
275	50	360				404	¾°	778

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	155		250
W. TRUCK	122		
MOB. PUMP	86		
GENERAL:	196		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	60	10
WIND VELOCITY:	—	
RAIN, SNOW, FOG, ETC.	Snow	Snow

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						8
HELPER L. Bourassa						8
HELPER L. Thomas						8
H. Higgins						4
TOTAL G. Hofman						4

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Drilling	12⁰⁰	12¹⁵	¼
	Rig serv. - Survey	12¹⁵	12³⁰	¼
	Drilling	12³⁰	3⁰⁰	2½
	Repair airlines	3⁰⁰		
	adjust drill-line clutch	3⁴⁵	3⁴⁵	¾
	Drilling	3⁴⁵	8⁰⁰	4¼
	DRILLER G. Jacobson			
	COMPANY TIME ____ CONT'R TIME ____			8

TOUR 2 — TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		878	1300							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DT	FJ930	12000	180	1055		16½			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	8.8	8.6		9.1
VISC.	29	29		37
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1.
2. 30 bags of gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
350	50				~~1051~~	1056	1¾	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	163		
W. TRUCK	130		
MOB. PUMP	94		
GENERAL:	204		

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:	10	
RAIN, SNOW, FOG, ETC.	Snow	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hoffmann						12
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Drlg 6¼ Hole	8⁰⁰	8³⁰	½
	Rig Serv	8³⁰	8⁴⁵	¼
	Drlg 6¼ Hole	8⁴⁵	11³⁰	2¾
	Survey @ 1056	11³⁰	11⁴⁵	¼
	Drlg 6¼ Hole	11⁴⁵	4⁰⁰	4¼
	DRILLER			
	COMPANY TIME ____ CONT'R TIME ____			8

TOUR 3 — TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1300								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DT	FJ930	15	180	1270		22½			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.2	9.2	9.5	9.5
VISC.	37	45	50	50
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER Water GALS.
1. ~~30 bags gel~~
2. 10 sacks gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	¢ LOG TO DEPTH
350	50	1350				1300	1¾	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	171		
W. TRUCK	138		250
MOB. PUMP	102		
GENERAL:	212		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	8°	-5°
WIND VELOCITY:	4 mph	
RAIN, SNOW, FOG, ETC.	Snow	

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER H. Wheeldon						8
HELPER J. Ottenbreit						8
HELPER H. Higgins						8
V. Higgins						12
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Rig Service - Survey	4⁰⁰	4¹⁵	15
	Drill	4¹⁵	7⁰⁰	2 45
	Circulate Sample	7⁰⁰	7³⁰	30
	Drill	7³⁰	8⁰⁰	30
	Circulate Sample	8⁰⁰	8³⁰	30
	Drill	8³⁰	9⁰⁰	30
	Circulate Sample	9⁰⁰	9³⁰	30
	Drill	9³⁰	11⁴⁵	2 15
	Circulate Sample	11⁴⁵	12⁰⁰	15
	DRILLER			
	COMPANY TIME ____ CONT'R TIME ____			8

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER _____

TOTAL COMPANY TIME ____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 57 LOCATION Hern River Resalta etal Trout River D-66 DATE Feb. 23/71

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION Trout River D-66 DATE Feb. 23/71

TOUR 1 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		138	245							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		2	9 7/8	AT		ALL	180	148		4 3/4			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1. 2. 3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
						153	1/2°	245 - 3/0

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	31			TEMPERATURE:	10	0
W. TRUCK	78		250	WIND VELOCITY:	—	—
MOB. PUMP	62			RAIN, SNOW, FOG, ETC.	—	—
GENERAL:	172					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						10 1/2
HELPER L. Bourassa						10 1/2
HELPER L. Thomas						10 1/2
H. Higgins						6
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT.	RATE IN 16PM	DESCRIPTION	DEPTH TO WATER IN FT.
			Ran 8 joints used - 7" S.T.+C - 20# casing with Davis guide shoe and baffle plate on top of shoe joint. Landed at 242 K.B. Cemented with 150 sacks + 3% calcium chloride plug down at 9 30/40 AM	

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 9 7/8 hole	12 00	12 30	1/2
	Survey	12 30	12 45	1/4
	Drilling	12 45	4 00	3 1/4
	Circ - Survey - Rig Serv	4 00	4 30	1/2
	Dummy Trip	4 30		
	Ream tight spots		5 45	1 1/4
	Circulate	5 45	6 00	1/4
	Pull out to run csg.	6 00	6 30	1/2
	Run casing	6 30	8 00	1 1/2

DRILLER G. Jacobson

COMPANY TIME CONT'R TIME 8

TOUR 2 — TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1. 2. 3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	139			TEMPERATURE:	10	
W. TRUCK	106			WIND VELOCITY:	—	
MOB. PUMP	20			RAIN, SNOW, FOG, ETC.		
GENERAL:	180					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						8
HELPER Walter Fedoruk						8
HELPER Gary Hofmann						10
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Circ. handling joint	8:00		
	To bottom		8 45	3/4
	Rig to run cement &	8 45		
	cement		9 30	3/4
	W.O.C	9 30	3 30	6
	Slack off & head up	3 30	4 00	1/2
				8

DRILLER

COMPANY TIME CONT'R TIME

TOUR 3 — TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		245	353							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	6 1/4	DTJ	FJ930	10	180	110		2			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				8.4
VISC.				WATER
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1. 2. 3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
450	60	220	200	50	275			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	147			TEMPERATURE:	15°	15°
W. TRUCK	114		250	WIND VELOCITY:		
MOB. PUMP	78			RAIN, SNOW, FOG, ETC.	CLEAR	
GENERAL:	188					

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER H. WHEELDON						8
HELPER J. OTENBREIT						10
HELPER H. HIGGINS						8
H. HIGGINS						1
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Nipple up	4 00	7 00	3
	PRESSURE TEST HYDRILL 15 MIN @ 800 psi			
	PRESSURE TEST PIPE RAMS 15 MIN @ 800 psi			2
	PRESSURE TEST BLIND RAMS 15 MIN @ 800 psi			
	CHECK MOTOR Shut off			
	DRILL OUT	9 00	10 00	1 00
	DRILL 6 1/4" HOLE	10 00	12 00	2 00
				8

DRILLER H. Wheeldon

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO. .....

RIG. NO. 57 LOCATION N.R. Lewalta Ethel Trust Rain D-66 DATE Feb. 22/71

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		0								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER ..... GALS.
1. 12 sacs gel
2. 1 caustic
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	111		250
W. TRUCK	78		
MOB. PUMP	42		
GENERAL:	182		

WEATHER	MIDN.	4 A.M.
TEMPERATURE:		10
WIND VELOCITY:		—
RAIN, SNOW, FOG, ETC.		—

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER G. Jacobson						7
HELPER L. Bourassa						8
HELPER L. Paranteau						7
L. Thomas						7
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	~~Mix Mud~~			
	~~Start~~ Get pump - primed	5 30	6 30	1 1/2
	~~Mix Mud~~	6 30	8 00	
	~~Start boiler~~			
	~~Wait on water~~			
	DRILLER G. Jacobson			
	COMPANY TIME ..... CONT'R TIME			3

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		0	50							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8		R.B.	ALL	180			35			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				60
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER ..... GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	119		250
W. TRUCK	86		
MOB. PUMP	50		
GENERAL:	160		

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.		

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Chuck Hutchinson						5
HELPER W. Fedoruk						5
HELPER G. Hofmann						5
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	Start Boiler	8 00		
	Wait on water			
	Mix Mud		12 30	4 1/2
	DRILL 9 7/8" HOLE	12 30	4 00	3 1/2
				8
	DRILLER			
	COMPANY TIME ..... CONT'R TIME			

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		50	138							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8	R.B.		TOTAL	180	97		9 1/2			
			2A	9 7/8	R.B.		TOTAL	180	41		1			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.7	9.8	9.8	8.9
VISC.	35	30	35	40
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER ..... GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	64	100				113	1/2°	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	127		250
W. TRUCK	94		
MOB. PUMP	58		
GENERAL:	168		

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	15°	10°
WIND VELOCITY:	—	
RAIN, SNOW, FOG, ETC.	CLEAR	

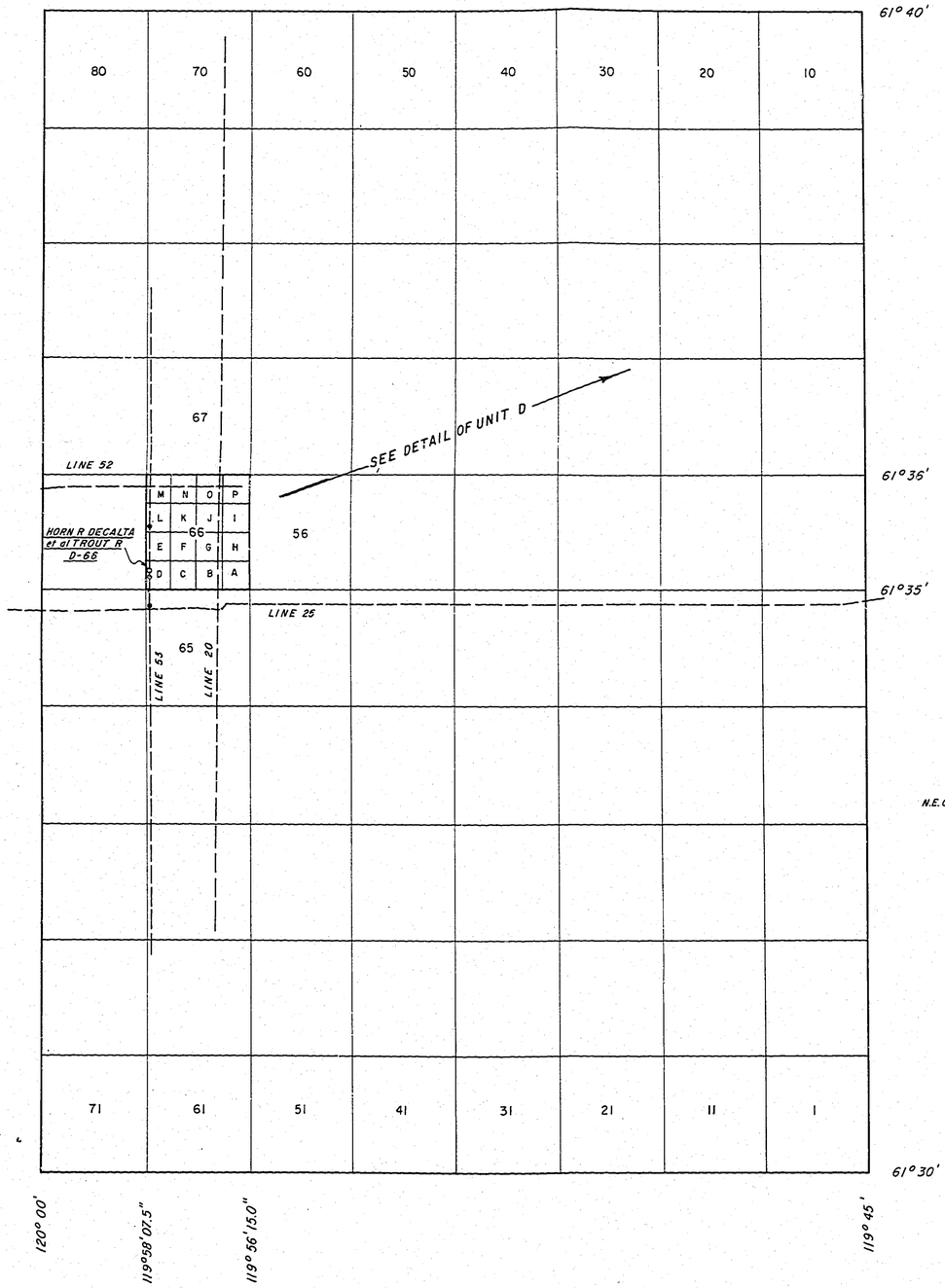
CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. Wheeldon						8
HELPER J. Ottenbreit						8
HELPER H. Higgins						8
H. Higgins						8
TOTAL						

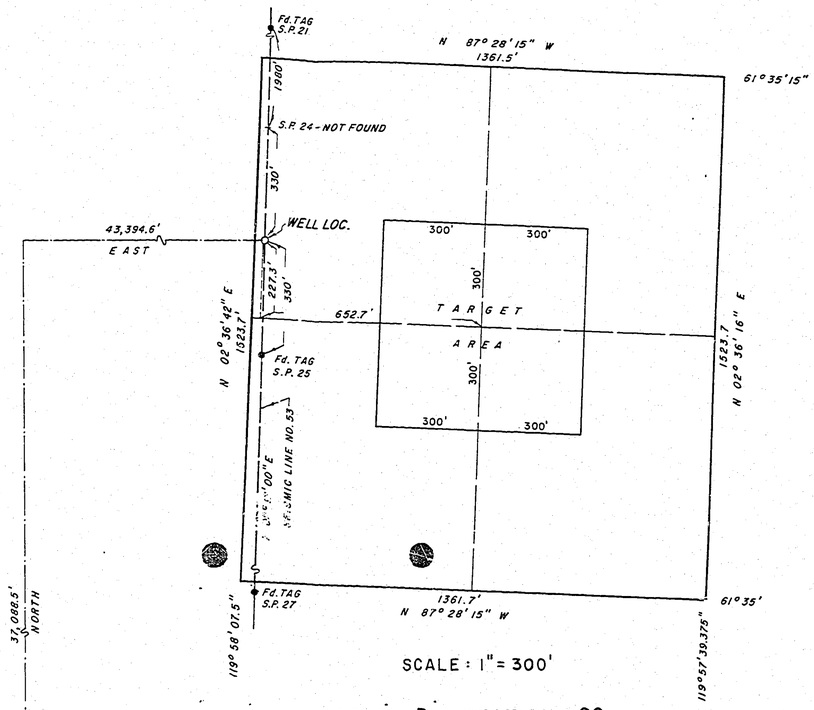
INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	INTERVAL
	RIG SERVICE	4 00	4 15	15
	DRILL	4 15	8 00	3 45
	SURVEY	8 00	8 15	15
	DRILL	8 15	10 30	2 15
	TRIP FOR BIT	10 30	11 00	30
	DRILL	11 00	12 00	1
				8
	DRILLER A. Wheeldon			
	COMPANY TIME ..... CONT'R TIME			

TOTAL CONTRACT TIME ..... HRS. TOOLPUSHER OR DRILLER .....

TOTAL COMPANY TIME ..... HRS. APPROVED BY .....





SCALE : 1" = 300'

UNIT D, SECTION 66,

N.E. COR. TP. 143, R. 13, W. 6th MER.
LAT. 61° 28' 44.9"
LONG. 120° 12' 24.5"

HORN RIVER RESOURCES LTD.

PLAN SHOWING PRELIMINARY SURVEY OF

HORN R DECALTA et al TROUT R D-66

AT LAT. 61° 35' 09.8", LONG. 119° 58' 06.9"

UNIT D, SECTION 66, GRID AREA : Lat. 61° 40', Long. 119° 45'

MILLS LAKE AREA

NORTHWEST TERRITORIES

Scale: 1" = 1 mile

I certify that the survey represented by this plan is correct and true and was completed on February 28th, 1971.

Dominion Land Surveyor

Witness

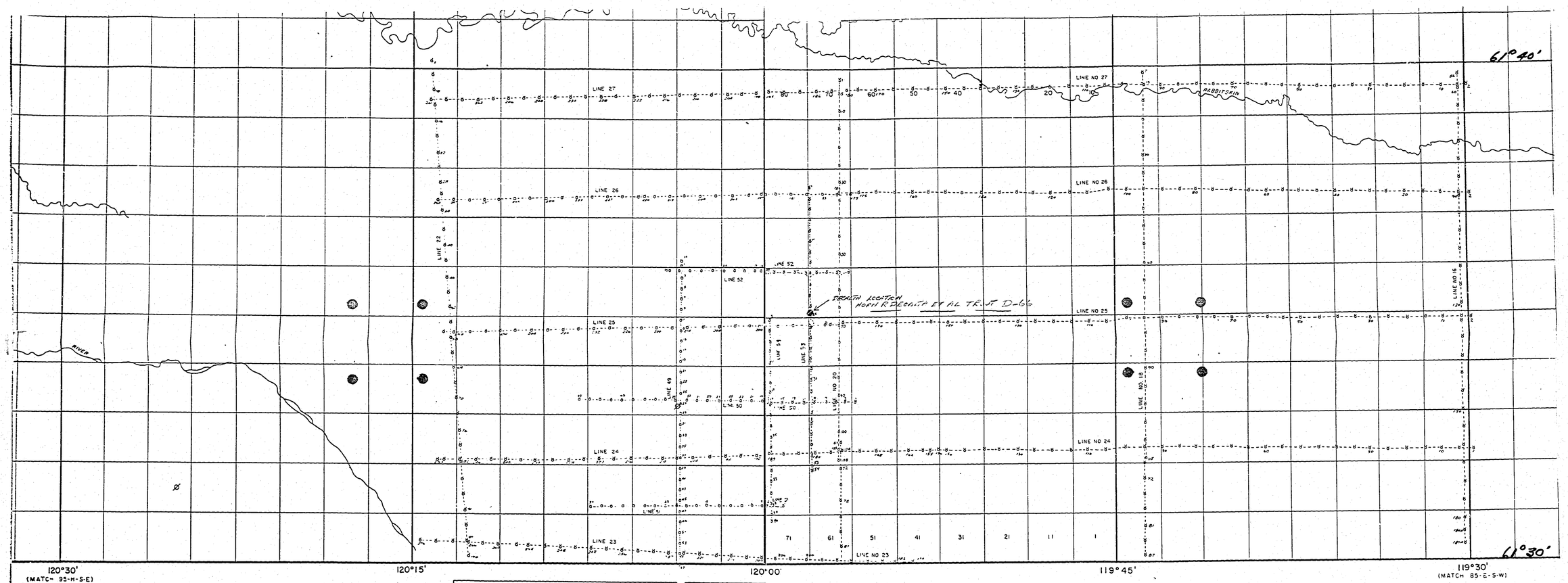
SIGNATURES FOR
HORN RIVER RESOURCES LTD.

NOTE:
All distances are reduced to Sea Level.
Bearings referred to reference meridian 117° 00' 00" (UTM GRID ZONE 9).
Well location is one half way between Shot Points 25 & 24, Line 53.

CANADIAN ENGINEERING SURVEYS CO. LTD.
EDMONTON ALBERTA

JOB NO. :	C - 6493
DATE :	MARCH 4th/71
DRWG. NO. :	6493 - M - 1

N.T.S. 85-E



HORIZONS

SHOOTING BY

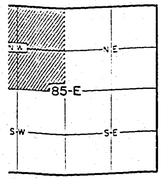
TROUT RIVER - TX 620, 627
N. GEOPH 3

LEGEND

- NO CORRELATION
- DOUBTFUL CORRELATION
- FAULT
- POSSIBLE FAULT
- QUESTIONABLE FAULT
- VALUE NOT USED IN CONTOURING
- PHANTOM VALUE
- SMOOTHED VALUE
- QUESTIONABLE DATA
- CHARACTERISTIC EVENT
- DATA NO GOOD
- NOT SHOT
- RAW TIME
- MAGNETIC RECORDING
- REFLECTION SHOT POINT
- SHOOTING BY OTHER COMPANIES
- REFRACTION CONTROL POINT
- MIGRATED POSITION AND VALUE
- HORIZONTAL STACK
- B.A. SHOOTING PRIOR TO JULY 1, 1956
- B.A. SHOOTING PRIOR TO JULY 1, 1956, COINCIDENT WITH GULF CONTROL

WELL SYMBOLS

- LOCATION
- SUSPENDED
- PRODUCER-GAS
- PRODUCER-OIL
- DRY HOLE
- ABANDONED-OIL
- ABANDONED-GAS
- BOTTOM HOLE POSITION
- WATER INJECTION



NOTE: SURVEY INFORMATION & TOPOGRAPHIC FEATURES ARE TAKEN FROM NAT. TOPOGRAPHIC SERIES 1 : 250,000

HORIZON