Drilling Authority No. 260
Date Issued 13-2-67

WELL NAME IOE Tree River H-38
FIELD Wildcat Area:
LOCATION: Unit H Section 38 Grid 67-20; 132-15
Latitude 67-17-21 Longitude 132-21-00
From Established Reference Marker

U.W.I.R.R. 67.28916 - 132.35000
U.W.I. No. 300 H38 67 20 132 50

Rig Release Date: 23-4-67
Status D-A
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
13-2-67	Application for a Drilling Authority.
18-5-67	Well Completion Data.
	Well History Report.
6-4-67	Application to Amend a Drilling Authority.
	Application to change a Well Name.
27-4-67	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale Small scale

NANR 52-90 (7-65)

CANADA

Drilling Authority No. 260

Date Issued Feb. 13/67

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

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: IOE Tree River H-38

Permit No. 3650 Lease No. WB 39-63

Imperial Oil Enterprises Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 1019 (1966) 1045 (1967)

Imperial Oil Enterprises Ltd. (Operator) Exploratory Licence No. 1019 (1966) 1045 (1967)

Location: Unit H Section 38 Grid 67-20-132-15

Latitude 67°17'21" N Longitude 132°21'00" W

From Established Reference Marker Shot Point 4552 on cut line. Plotted from Air Photos with Sketchmaster.

	DATE	DEPTH
Spudded Conductor Hole	Mar. 18/67	
Spudded	Mar. 19/67	
Suspended		
Resumed		
Finished Drilling	Apr. 18/67	4197
Deepened		
Complete (gas/oil)		
Abandoned	Apr. 23/67	4197
Rig released	Apr. 23/67	4197

Pool (s)

Interval(s) open to production

Elevation: Gr. 247.1

K.B. 261.1

Drilling Contractor & Rig No. IOE National 3

Contractor's Business Licence No.

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at—	Sacks of Cement and Additives
1. 9 5/8	N 80	40.0	606.61	622.01	375 + 4% CaCl2
2. 13 3/8			30 ft		65
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Canol-Hare Indian	2177	-1916
Hume	2300	-2039
Bear Rock	2588	-2327

CORE RECORD

From	To	Rec.	From	To	Rec.
2606	2636	29.7			
2860	2890	30	Analyzed		
3758	3778	19	Analyzed		

LOG RECORD

Run No.	Type of Log	From	To
1	IE	622	4200
1	BHCSGRC	0	4199
1	MC	622	4200
1	Velocity Survey	622	4199

NANR 82-90(2) (7-65)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
April 20/67	4197		50 sacks + 2%$CaCl_2$ on btm-no returns.
April 21/67	4197	3750	200 sacks + 2%$CaCl_2$-no returns.
April 21/67	4197		30 sacks + 20 sacks Cal-Seal on Btm. Felt at 4147
April 21/67	4147	3750	150 sacks - no returns.
April 21/67	3700	3575	50 sacks + 2% $CaCl_2$ Felt at 3694
April 22/67	1850	1500	200 sacks + 2% $CaCl_2$ Felt at 1358
April 22/67	670	570	60 sacks + 2% $CaCl_2$ Felt at 627
April 23/67			60 sacks + 2% $CaCl_2$ Felt at 486
April 24/67	Cut off casing 3' below ground level. Dropped 5 sack plug. Welded plate. 3 sacks in Mouse Hole, 5 sacks in Rat Hole.		

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CALGARY, ALBERTA
MAY 23 1967
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
L 29167	Water			Salt Water Contaminated Mud	Coming in at 2929' or 3747' or both.
L 26367	Gas	0	2366		Blowout
CNP-1- 8747	Core #2	2860	2890		
	" #3	3758	3778		

PRESENT STATUS OF WELL

Oil		(Interval.)
Gas		(Interval.)
Dry	X	
Susp.		

Company: Imperial Oil Enterprises Ltd.

Signed by: Peter Stamp

Title: Manager, NWT Exploration District

Date: May 18 1967

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

Department of Indian Affairs and Northern Development
Resource & Economic Development Group

File No.
Drilling Authority No. 260

~~DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES~~
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well ~~or Suspend Drilling~~

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

Name and number of well: IOE Tree River H-38-67-20-132-15

Location: Unit: Section: 38 Grid: 67° 20' 132° 15'

Latitude: 67° 17' 21" N Longitude: 132° 21' 00" W

From Established Reference Marker: Air photos of existing cutlines and seismic location. Location verified with photos of rig in place.

Permit No.: 3650 Lease No.: WB 39-63

Imperial Oil Enterprises Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed program: April 20, 1967

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at: None Encountered

Gas at: Gas blew at 2,383' KB. Gas could be coming from 1,580' - 1,790' KB.

Water at: Water encountered from 2,850' - 4,197" KB (FTD) in 2 - 3 foot stringers

Total Depth: 4,197' Date of last operations: April 20, 1967

Present condition of well: Standing ready to abandon.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. 9 5/8	40.0	606.61	622.01	375 sacks + 4% $CaCl_2$	None
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4,197' - 3,700'		250 sacks + 2% $CaCl_2$	Feel in 8 hours
2	1,850' - 1,500'		200 sacks + 2% $CaCl_2$	Feel in 8 hours
3	670' - 570'		60 sacks + 2% $CaCl_2$	Feel in 8 hours
4	Surface		5 sacks &	Name Plate

The following logs have been run: Induction E-log, Sonic Gamma log (BHC), Micro Log Caliper, (and Velocity Survey)

Other operations proposed: All operations in accordance with the "Canada Oil and Gas Drilling and Production Regulations".

Operations to be carried out by: Imperial Oil Enterprises Contractor Licence No.

Address: 11160 Jasper Ave., Edmonton, Alberta. Address

Responsible Agent in field: A. L. LaBerge

Dated at: Edmonton, this 21st Day of April, 1967.

Signed by: A. L. LaBerge Company: Imperial Oil Enterprises

Title: Division Production Manager Operator's Exploratory Licence No.: 1019 (1966) 1045 (1967)

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 20th of April 1967

Dated 27th April, 1967

B. H. J. Thoms
Oil Conservation Engineer

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

NANR 52-90 (5) (7-65)

epartment of Indian Affairs and Northern Development
esource & Economic Development Group

File No.
Drilling Authority No. 260

~~DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES~~
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well ~~or Suspend Drilling~~

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

Name and number of well: IOE Tree River H-38-67-20-132-15

Location: Unit: H Section: 38 Grid: 67° 20' 132° 15'

Latitude: 67° 17' 21" N Longitude: 132° 21' 00" W

From Established Reference Marker: Air photos of existing cutlines and seismic location. Location verified with photos of rig in place.

Permit No. 3650 Lease No. WB 39-63

Imperial Oil Enterprises Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed program: April 20, 1967

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at: None Encountered

Gas at: Gas blew at 2,383' KB. Gas could be coming from 1,580' - 1,790' KB.

Water at: Water encountered from 2,850' - 4,197" KB (FTD) in 2 - 3 foot stringers

Total Depth: 4,197' Date of last operations: April 20, 1967

Present condition of well: Standing ready to abandon.

CASING RECORD

	Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1.	9 5/8	40.0	606.61	622.01	375 sacks + 4% $CaCl_2$	None
2.						
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4,197' - 3,700'		250 sacks	Feel in 8 hours
			+ 2% $CaCl_2$	
2	1,850' - 1,500'		200 sacks	
			+ 2% $CaCl_2$	Feel in 8 hours
3	670' - 570'		60 sacks	
			+ 2% $CaCl_2$	Feel in 8 hours
4	Surface		5 sacks &	Name Plate

The following logs have been run: Induction E-log, Sonic Gamma log (BHC), Micro Log Caliper, (and Velocity Survey)

Other operations proposed: All operations in accordance with the "Canada Oil and Gas Drilling and Production Regulations".

Operations to be carried out by: Imperial Oil Enterprises Contractor Licence No.

Address: 1116C Jasper Ave., Edmonton, Alberta. Address

Responsible Agent in field: A. L. LaBerge

Dated at: Edmonton, this 21st Day of April, 1967.

Signed by: A. L. LaBerge Company: Imperial Oil Enterprises

Title: Division Production Manager Operator's Exploratory Licence No. 1019 (1966) 1045 (1967)

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

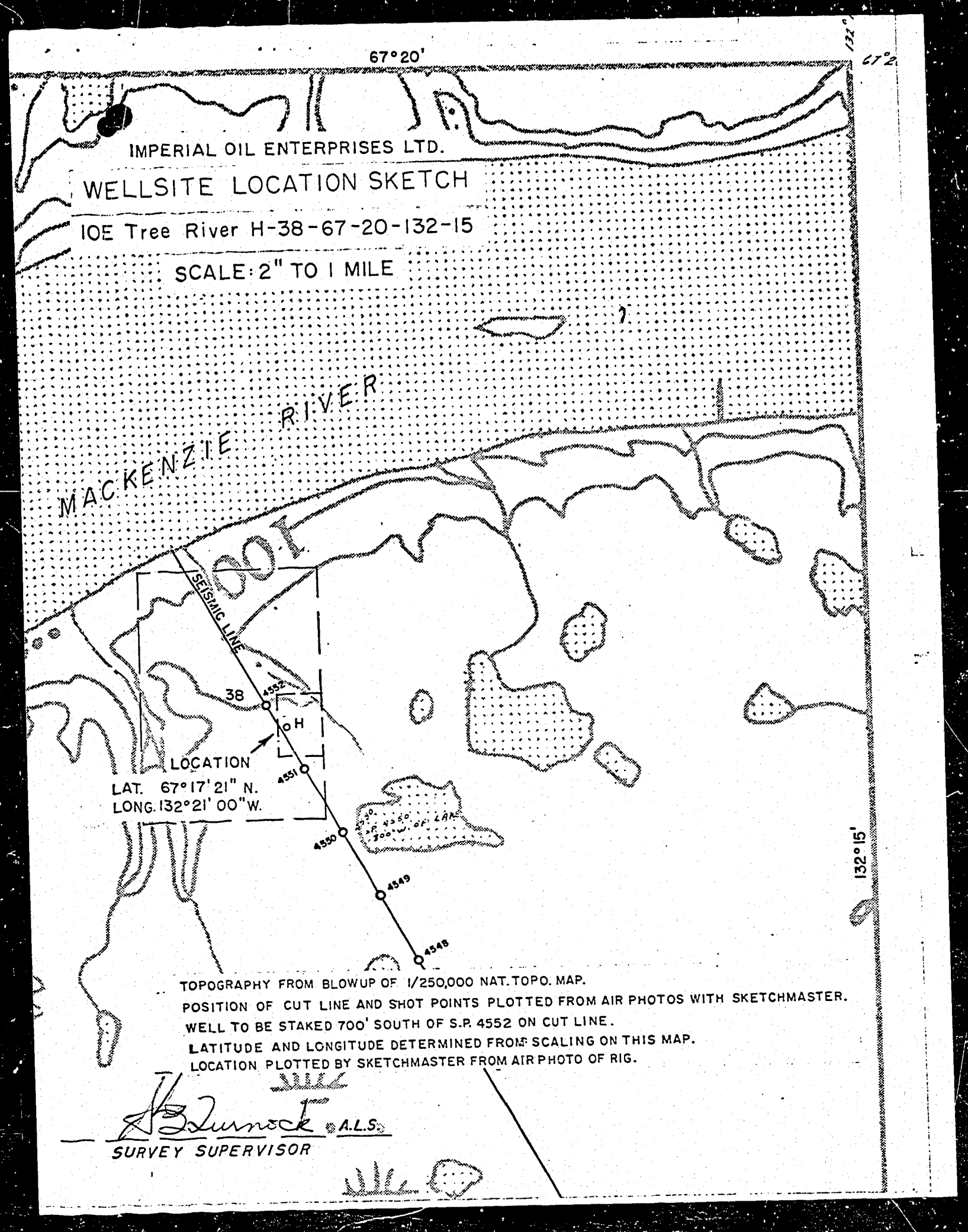
Confirming oral approval given by Mr. B.H.J. Thoms on the 20th of April 1967

Dated 27th April, 1967

B. H. J. Thoms
Oil Conservation Engineer

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

NANR 52-90 (5) (7-65)


67°20'
IMPERIAL OIL ENTERPRISES LTD.
WELLSITE LOCATION SKETCH
IOE Tree River H-38-67-20-132-15
SCALE: 2" TO 1 MILE
MACKENZIE RIVER
SEISMIC LINE
38
4552
H
LOCATION
LAT. 67°17'21" N.
LONG. 132°21' 00" W.
4551
4550
4549
4548
132°15'
TOPOGRAPHY FROM BLOWUP OF 1/250,000 NAT. TOPO. MAP.
POSITION OF CUT LINE AND SHOT POINTS PLOTTED FROM AIR PHOTOS WITH SKETCHMASTER.
WELL TO BE STAKED 700' SOUTH OF S.P. 4552 ON CUT LINE.
LATITUDE AND LONGITUDE DETERMINED FROM SCALING ON THIS MAP.
LOCATION PLOTTED BY SKETCHMASTER FROM AIR PHOTO OF RIG.
A.L.S.
SURVEY SUPERVISOR

TREE RIVER R 38 07-20
4"
EF30
9

IOE TREE RIVER H-38

April 10, 1967 Depth 3,747' - mixing lost circulation material

Sour gas odour @ 3,280'

Deviation @ 2,110' - 3°

2,462' - 4 3/4°

2,643' - 5 7/8°

2,815' - 6°

IOE TREE RIVER H-38

April 4, 1967 Depth 2,929' - mixing lost circulation material

CORE #1 - 2,608' - 2,638'. Recovered 30'

CORE #2 - 2,860' - 2,890'. " 30'

Well blew sweet gas when tripping out of hole @ 2,366' - about 500 Mcf/d - maximum pressure recorded 600 psi - sample taken

IOE TREE RIVER H-38

March 28, 1967 Depth 2,366' - drilling

9 5/8" casing landed at 622' - cemented with 375 sacks

ELEVATIONS:	K.B.	261'
	GR.	247'

IOE TREE RIVER H-38

March 21, 1967 Depth 448' - drilling

SPUDDED: 19th March 1967

File No.....
Drilling Authority No. 260

Department of Indian Affairs and Northern Development
Resource & Economic Development Group

~~DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES~~
~~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. 260, concerning

IOE Tree River H-38-67-20-132-15
(Name and Number of Well)

The following amendments are required: Lat. 67° 17' 21"N
Long. 132° 21' 00"W

Reasons for the amendments: Corrected longitude calculated from aerial photographs.

Dated at Edmonton, this 5th day of April, 1967.

Signed by Copy (Signed) A. L. LaBerge
Title Production Manager
Company Imperial Oil Enterprises Ltd.

(For Resource Management Division use only)

APPROVED

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

Date 6th April, 1967

Oil Conservation Engineer

Forms to be submitted to the Oil Conservation Engineer, Calgary, Alberta.

NANR 52-90-3 (7-65)

UNIVERSAL WELL LOCATION REFERENCE: 67.28916° North Latitude
132.35000° West Longitude

File No. .....

Drilling Authority No. 260

Department of Indian Affairs and Northern Development
Resource & Economic Development Group

[redacted]

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: IOE Tree River H-38-67-20-132-15

Location: Unit H Section 38 Grid 67°20'132°15'

Latitude 67°17'21" N Longitude 132°21'03' W

From Established Reference Marker: Air photos of existing cutlines and seismic control. Location will be verified with photos of rig in place

Elevation: Ground 243 (Est.) K.B. ..... feet above sea-level.

Well is expected to produce from Bear Rock formation at a depth of about 3,000 feet.

Area assigned to well ..... (for Oil Conservation Engineer's use only)

Permit No. 3650 Lease No. WB 39-63 Acreage .....

Permittee, licensee, or lessee: Imperial Oil Enterprises Ltd.

Exploratory Licence No. 1019

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	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 9 5/8	40	N80	Seamless	Used	600	To surface
2.						
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment: possible oil 2700 in Bear Rock possible oil or water at about 5300 in Ronning. To bottom at 6000'. Hydril and double gate mechanical blowout preventer.

Well will be drilled with (Rotary) Rig No. NAT 3 by Imperial Oil Enterprises Ltd. (Drilling Contractor or company)

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

At well A. L. LaBerge At registered office D. D. Lougheed

Address 11160-Jasper Avenue, Edmonton Address 500 - 6th Avenue S.W., Calgary

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

Dated at Edmonton, this 8 day of February 19 67

Signed by Copy (Original Signed) A. L. LaBerge Company Imperial Oil Enterprises Ltd.

Title Production Manager Operator's Licence No. 1019

(For Resource Management Division use only)

APPROVED

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

The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

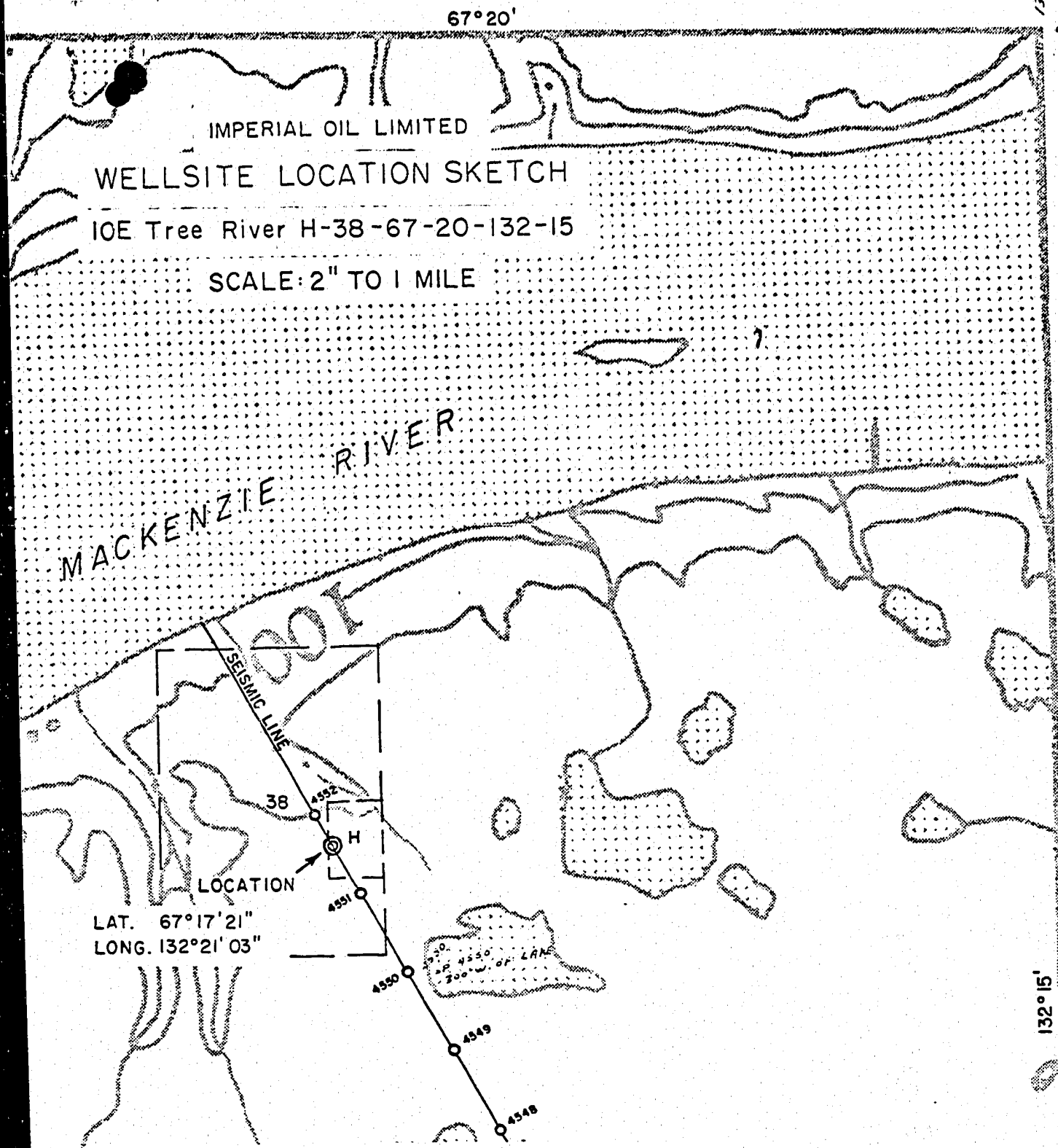
Dated 13th February 1967

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

NANR: 52-90-1 (7-65)

UNIVERSAL WELL LOCATION REFERENCE: 67.28916° N. 132.35083° W.



TOPOGRAPHY FROM BLOWUP OF 1/250,000 NAT. TOPO. MAP.
POSITION OF CUT LINE AND SHOT POINTS PLOTTED FROM AIR PHOTOS WITH SKETCHMASTER.
WELL TO BE STAKED 700' SOUTH OF S.P. 4552 ON CUT LINE.
LATITUDE AND LONGITUDE DETERMINED FROM SCALING ON THIS MAP.

H. Zurnock A.L.S.
SURVEY SUPERVISOR

File No.....
Drilling Authority No.....260.....

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Inuvik Date: 10th July 1971

TO: The Oil Conservation Engineer:

RE: IOE Tree River H-38 67-20-132-15

Location: 67.28916°N., 132.35000° W. Status: D & A April 1967

This location was inspected by the undersigned on 10th July 1971

T.D. 4197'

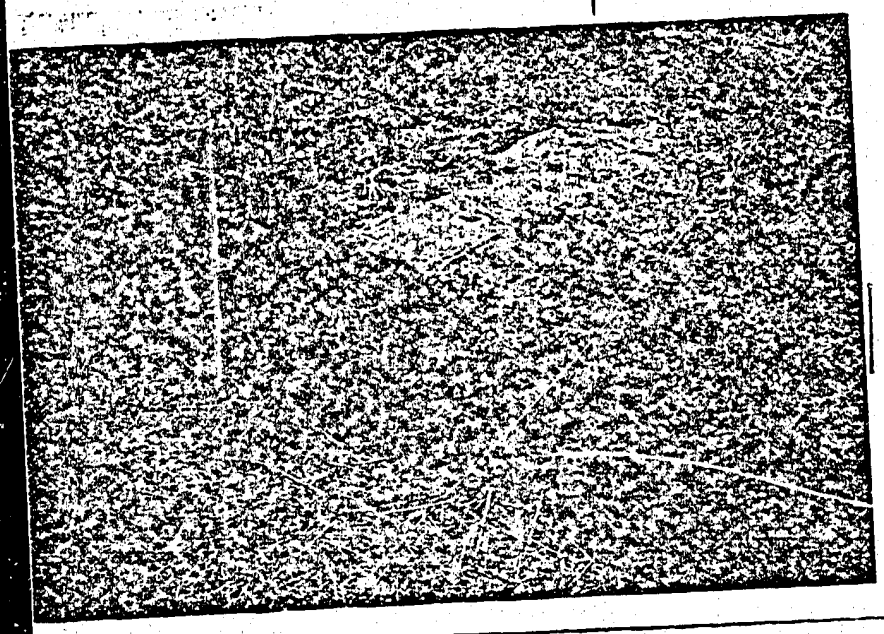
The location is in satisfactory/~~unsatisfactory~~ condition.

The following items require attention:

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

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

Clean lease.
Wood piled



Inspected by M. D. Thomas
District 2

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
IAND 52-90-14 (9-69)

52

GEOLOGICAL & EVALUATION
Resource Management Division
MAY 29 1967
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

INDEX

Section 1. Summary of Well Data

(a) Well name and number

(b) Permittee

(c) Operator

(d) Location

(e) Co-ordinates

(f) Permit Number

(g) Drilling Contractor

(h) Drilling Authority

(i) Classification

(j) Elevations

(k) Spud

(l) Completed Drilling

(m) Total Depth

(n) Well Status

(o) Rig Release

(p) Hole Size

(q) Casing

Section 2. Geological Summary

(a) Formation Tops

(b) Cored Intervals

(c) Core Description

(d) Sample Description

MICROFILM 07

Section 3. Engineering Summary

(a) Drill Stem Tests

(b) Casing Record

(c) Bit Record

(d) Mud Report

(e) Deviation Record

(f) Abandonment Plugs

(g) Lost Circulation Zones

(h) Report of Blowouts

Section 4. Logs

Section 5. Analyses

(a) Core Analysis

(b) Water Analysis

(c) Gas Analysis

(d) Oil Analysis

Section 6. Completion Summary

(a) Tubing Record

(b) Perforation Record

(c) Cementation Record

(d) Acidization and Fracturing Record

(3) Back Pressure and Production Tests

Company: Imperial Oil Enterprises Ltd.

Signed by: Peter Stanuff.

Title: Manager N.W.T. Exploration District

Date: May 18 1967

SECTION I

Section 1. Summary of Well Data

(a) Well Name and Number - IOE Tree River H-38

(b) Permittee - Imperial Oil Enterprises Ltd.

(c) Operator - Imperial Oil Enterprises Ltd.
11160 - Jasper Avenue, Edmonton, Alberta

(d) Location - 67-20 - 132-15
Latitude 67°17'21" N, Longitude 132°21'00" W, Unit M, Section 38

(e) Co-ordinates - not applicable

(f) Permit Number - 3650

(g) Drilling Contractor - Imperial Oil Enterprises Ltd.
National 3

(h) Drilling Authority - 260 - Issued 13-2-67 Amended 6-4-67

(i) Classification - NFW

(j) Elevations - Kelly Bushing 261.1
New Ground 247.1

(k) Spud - March 19/67 5:00 A.M. - Spudded Conductor Hole March 18/67 3 to 13 3/8 cond pipe/65 sks. cement.

(l) Completed Drilling - April 18/67

(m) Total Depth - 4197

(n) Well Status - Dry and Abandoned

(o) Rig Release - April 23/67 MIDNIGHT

(p) Hole Size - 17½" to 640'
8 5/8" to 4197'

(q) Casing - Ran 19 joints 606.61' of 9 5/8 N80 LT & C 40.0# casing landed at 622.01. Cemented with 375 sacks plus 4% $CaCl_2$.

SECTION II

Section 2. Geological Summary

(a) Formation Tops

Formation	Sample	Log	Sub-Sea
Imperial	280		
Canol-Hare Indian	2180	2177	-1916
Hume	2560	2300	-2039
Bear Rock	2883	2588	-2327

(b) Cored Intervals

	Interval	Recovery	Formation
#1	2606-2636	29.7	Bear Rock
#2	2860-2890	30	Bear Rock
#3	3758-3778	19	Bear Rock

(c) Core Description

Core #1 — 2606-2636 Rec. 29.7

Limestone - Micritic pellet to pellet micrite. Pellets .06 to .15 MM in diameter, medium well preserved; well cemented in micritic matrix with 15% argillaceous material. Occasional thin argillaceous laminations. Minor skeletal in the form of brachiopods, thin shelled, gasteropods crinoids. Minor bondinage structures.

Coring times minutes per foot 9, 16, 12, 11, 7, 6, 6, 6, 6, 8, 11, 7, 7, 6, 9, 9, 8, 8, 8, 8, 8, 7, 6, 6, 6, 5, 5, 6, 6, 6.

Core #2 — 2860-2890 Rec. 30
Smell of H_2S throughout core.

2860-2862 (2')
Limestone, micritic pellet. Pale brown. Part of micrite is enlarged to chalk size but all pore space is filled with clear cemented, slightly argillaceous cement. A few ostracods. Trace of black bitumen?

2862-2868 (6')
Limestone, micritic cemented. Pale yellowish brown. Part of micrite is enlarged to vague pellets and lumps all tightly cemented. Vague bedding 5° dip. Cement is mostly present in small patches and veinlets. Scattered ostracods. Trace of finely disseminated pyrite.

2868-2870 (2')
Limestone, micritic, argillaceous. Pale brown in part with bondinage structure. Some vague pellets. Trace of clear calcite cement in small patches. Scattered ostracods.

2870-2873 3'	Limestone, micritic, cemented. Pale yellowish brown as interval 2862-2868.
2873-2883 10'	Limestone, micritic, argillaceous. Pale brown. Bondinage structures common. Much of the micrite is enlarged to vague pellets. Ostracods common.
2883-2888 5'	Limestone, micritic, trace cemented. Pale yellowish brown. Completely dense. In part vaguely bedded. Also well marked approximate horizontal laminae 1/8" of enlarged micrite with incipient dolomitisation. All of this core is quiet water limestone. The bottom 5 feet are quiet water shelf limestone. Cementation appears syngenetic in micrites. This degree of cementation is common in Beaverhill platform limestones and off reef limestones close to Swan Hills reef.
2888-2890 2'	Micritic limestone. Pale yellowish brown. Buff in small part. Streaks of enlarged micrite, with incipient dolomitisation. Trace of finely dissemminated pyrite.
	Coring times minutes per foot 8, 8, 7, 6, 6, 6, 7, 6, 6, 7, 6, 5, 5, 5, 4, 4, 5, 5, 5, 4, 5, 4, 5, 5, 6, 6, 6, 6, 7, 8.
Core #3	3758-3778 Rec. 19.
	Dark brown skeletal micritic limestone. Argillaceous, Brachiopods, gastropods, tentaculites, crinoid fragments tight.
	Coring times minutes per foot 4, 6, 6, 9, 10, 8, 11, 10, 11, 11, 12, 12, 14, 15, 11, 14, 11, 13, 12, 10.

Section 2.

(d) Sample Description

10E Tree River

H-38

IOE TREE RIVER H-38

67° 20' 132° 15'

7-11-6-43

AUTHOR D. J. Hawkings DATE April 1967 FORM

DEPTH	QUALITY	ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	%	NET FT.	STAIN TYPE	AMT.	COMPONENT	.01 .03 .0
0-200	F	River Gravel	red	brown, yellow quartz							
				chert							
				white orthoquartzite							
				pebbles. Poor well							
				compacted.							
				Heavy siltstone, weathered							
				with ignous material.							
				Very poor sample							
				quality due to washed							
				out conductor pipe							
200-420		Siltstone	med.	grey, very fine grained							
				to fissity shale							
				Quartzose, well cemented							
				Trace carbonaceous							
				laminations							
				Possible very well							
				rounded floating sand							
				grains. Excellent development							
				of sandstone stringers							
				(med grained) at							
				360-370 + 410-420							
420-700		Shale	med	grey, fresh hard quartzose							
				(argillaceous) shale							
				to 5% bitumen.							
				Occasional thin siltstone							
				interbeds.							
700-[illegible]		Siltstone	med	[illegible] quartzose grading							
				to shale. Shale "							
				calc. bitumen							

AUTHOR J. J. Hawkins DATE April 1967 FORM 2

DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENTS
1500-1700			Limestone to marl, dolomitic limestone	med	very fine to med grained, argillaceous. Trace bitumen. Trace dolomite. Limestone dol. very argillaceous. Trace pyrite. Trace fossil fragments. Trace to 10% recrystallized limestone. Trace to 15% recrystallized limestone. Limestone calcitic, micro-xenoblastic, micro-intergranular porosity.						
1700-2150			Shale	med	very fine hard, indurated, occasional stringers, resistant to mechanical radiation.						
2150-2390			Shale	dark	very hard, compact, siliceous. Trace dolomite, luminated, very fine white fragments. Trace dolomite and mica, pyrite.						
2390-2460			Shale		very hard, brittle, platy, siliceous.						
2460-2560			Shale	dark	gray, calcareous, fragments of skeletal limestone.						
2560-2810			Limestone		Micrite, pellet to pellet micrite. Pellets .06-.15mm diameter, med well sorted, well cemented in micritic matrix with 15% argillaceous material. Rare thin argillaceous. Trace skeletal fragments. Thin shelled, orthogonal crinoids. Micro bedding structures. Trace internal insoluble. Core #1 2606-2636 feet. Rec. 29.7/30.						

LOGGED BY: S. Brussler DATE: April 1967 UNIT: Shuma 2

INTERVAL	QUALITY	%	ROCK NAME	☑ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.
2810-20	F	100	micrite	buff to pale brown	60% is enlarged micrite and resembles both pelletal and skeletal micritic limestone. Darker chips are all completely tight. Often contain small patches of clear calcite cement
2820-30	F	100	micrite	buff	35% pale yellow brown 25% pale brown; all dense. Small patches of clear calcite near cement patches often some vague pell. Indications of stylolites
2830-40	G	80	micrite	buff	and pale yellow brown. Essentially as above some enlarged micrite
		20	cemented pelletals	pale brown	

1818

LOGGED BY: L. Brunker DATE: April 1967 UNIT: Lime/Bear Rock LOCA NAME: 3

INTERVAL	QUALITY	%	ROCK NAME	WET COLOR / DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	PORC TYPE	%
core #2			2860-2890		recovery 30/30 smell of H_2S throughout		
2860-62		100	limestone micrite pelleted, cemented slightly arg	pale	brown Part of micrite is enlarged to shell size but all pore space is filled with clear calcareous cement. (Fossil ostracods) Trace of black bitumen?		
2862-68		100	limestone, micrite cemented	pale	yellow brown; part of micrite is enlarged to oogam pellets and lumps all lightly cemented. Vague bedding 5° dip. Cement is mostly present in small patches and veinlets. Scattered ostracods. Trace of finely disseminated pyrite		
2868-70		100	limestone, micrite argillaceous	pale	brown In part with bioclinage structure. Some oogam pellets, trace of clear calcite cement in small patches. Scattered ostracods		
2870-73		100	limestone, micritic cemented	pale	yellow brown as interval 2862-68		
2873-83		100	limestone, micritic argillaceous	pale	brown, bioclinage structures common. Much of the micrite is enlarged to oogam pellets. Ostracods common		
2883-88		100	limestone, micritic, trace cemented	pale	yellow brown. Completely dense. In part very finely laried; also well marked approx horizontal laminae 1/8" of enlarged micrite with incipient dolomitization		

all of this core is quiet water limestone

The bottom 5 ft are quiet water shelf limestone

cementation appears syngenetic: this degree of cementation in micrite is common in Beaverhill platform limestones and off reef lim

1618

LOGGED BY: N. Brunches DATE: April 1967 UNIT: Bear Rock

INTERVAL	QUALITY	%	ROCK NAME	☒ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POR. TYPE
2890-	F	100	micritic ls	pale	yellow brown, buff in small part	
					threads of enlarged micrite with incipient	
					dolomitization	
					drilled one foot (2828-29) at 2 mm and	
					lost circulation	
					Piece of finely disseminated pyrite	
2950-	F	70	micritic ls dense	pale	yellow brown. Samples collected from	
					ditch because of lost circulation and in mud	
		30	enlarged micrite	pale	yellow brown and pale brown in part with	
					incipient dolomitization	
		tr	cemented pelletal ls			
2980-	G	100	micritic ls dense	buff	50% pale yellow brown 50%	
		tr	dolomite	pale	yellow brown	
3030-	G	90	micritic ls	buff	50% chalky but < 0.01, pale yellow brown	
					dense 50%	
		5	pelletal ls	pale	yellow brown	
		5	dolomite	buff	dolomitized micrite	tr
					small patches of clear calcite throughout	
					Piece of Amphipora at 3050 O. bracoris	
					Indications of stylolites	
3090-	G	100	micritic ls, slightly	mostly	pale yellow brown, small part buff	
			dolomitic		dolomite probably in laminae	
3110-	G	95	micrite dense	pale	yellow brown	
		5	cemented pelletal ls	pale	brown	
3130-	G	100	micrite	mostly	buff, small part pale brown	
					small patches of clear calcite cement	
3140-	G	95	micrite as above			
		5	dolomite	pale	brown, dolomitized micrite	

1818

LOGGED BY: L. Brewer DATE: April 1967 UNIT: Bowl Rock NAME

INTERVAL	QUALITY	%	ROCK NAME	WET COLOR / DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POR TYPE
3170-	F	90	micrite, dense	pale	yellow brown, partly buff	
		10	dolomite,	pale	brown, dolomitized micrite	
3200-	F	90	micrite dense	pale	brown	
		10	dolomite	pale	brown	I
		tr	cemented pellets			
3210-	F	85	micrite as above			
		10	dolomite	pale	brown dolomitized micrite	
		5	cemented pellets	pale	brown	
		tr	green waxy shale			
3230-	G	80	micrite	pale	yellow brown, small part buff	
		20	dolomite	pale	brown, dolomitized micrite	
					From 3240 resumed using shale shaker	
					instead of taking samples from ditch	
3240-	G	70	micrite	buff	dense	
		30	dolomite	pale	yellow brown, dolomitized micrite	
3260-	G	80	micrite as above			
		20	dolomite as above			
3280-	G	100	dolomite, slightly calcareous	pale	brown Strong smell of sour crude. strong fluorescence	
3290-	G	60	dolomite as above			
		40	micrite as above			
3300-	G	60	micrite as above			
		40	dolomite as above			
3310-	G	80	micrite, dense	pale	yellow brown	
		20	dolomite as above			
3330-	G	60	micrite dense	buff	strong smell of sour crude	
		40	dolomite slightly calcareous	buff	strong fluorescence.	

1818

LOGGED BY: J. Brueckner DATE: April 1967 UNIT: Bear Rock LOCAT NAME:

INTERVAL	QUALITY	%	ROCK NAME	☒ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	PORO TYPE	
3340-	G	60	dolomite as above	buff	dolomitized micrite; continued smell and		
		40	micrite dense	buff	fluorescence		
3350-	G	90	micrite	buff	partly chalky 20% No oil smell		
		10	dolomite	buff			
3360-	G	100	micrite	buff	dense		
3370-	G	90	micrite	buff	Drilling times suggest porosity 3389-91		E
		10	dolomite	buff	not visible in samples		
3380-	G	100	micrite, dolomitic	buff	some chips 100% dol; some partly dol		
					most 100% micrite		
3400-	G	70	dolomite	buff	to pale yellow brown		
		30	micrite	buff	dense		
3410-	G	90	micrite ~~as above~~	buff	to pale yellow brown		
		10	dolomite as above				
3430-	G	80	micrite	mostly pale yellow brown, small part buff			
		20	dolomite	buff	dolomitized micrite		
3440-	G	70	micrite as above		Porosity indicated by drilling break 50-51		E
		30	dolomite as above				
3460-	G	70	dolomite	pale yellow brown to buff	Por 64-65	I	E
		30	micrite	pale yellow brown to buff	dense		
3470-	F	80	dolomite	pale brown, pale yellow brown, buff	On the	I	E
					average darker than above Porosity 3489-90		
		20	micrite	buff	dense		
3500-	G	90	dolomite	pale brown	(dolomitized micrite) Porosity 3523-26	I	E
		10	micrite	pale yellow brown			
					some white calcite from vein fillings		
3540-	G	80	dolomite	pale brown	N.B. the dolomite is often calcareous; its lime content is reduced	I	E
		20	micrite	pale yellow brown	with the micrite because the dolomite is anyway a dolomitized micrite		
					some white vein calcite		

1818

LOGGED BY: S. Brancher DATE: April 1967 UNIT: Beer Rock

INTERVAL	QUALITY	%	ROCK NAME	☒ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	PC TYPE
3570-	G	100	dolomite, calcareous	brownish grey		
3590-	G	100	dolomite, slightly calcareous	brownish grey to pale brown	Trace of porosity in coarser parts	I
3610-	G	100	dolomite, calcareous	yellow brown	Colour and texture of yellow sugar	I
3620-	G	100	dolomite calcareous		partly pale brown as @ 3590 partly lighter coloured as @ 3610	T
3640-	G	100	dolomite, calcareous	brownish grey	Considerably darker than above. Vein calcite, white 2%	
3670-	G	78	dolomite as above			
		20	micrite	pale yellow brown		
		2	white vein calcite			
3720-	G	60	dolomite, calcareous	brownish grey and pale yellow brown		
		40	micrite	pale yellow brown to buff		
					N.B. Fluorescence in samples @ 3450 3500 3520 3540 3550 3560 3570 3580 3630 3650 3680 3700	
3740-			No samples.			
3758 78	G	100	Core # 3.		dark brown skeletal micritic limestone. Argillaceous. Brachs, gastropods, tentaculites, crinoids fragments tight.	
3780 3860.	P		Limestone-micrite skeletal. slight dolomitization.		Samples poor but skeletal limestone lithology general. Tight. trace of pellet micritic limestone. Color is light buff.	
3860 3940.	P	50.	Generally Dolomite.		Light brown, sucrosic dolomite with trace of relic skeletal material. Intergranular porosity is fair	I

LOGGED BY: _____ DATE: _____ UNIT: _____ LOCA NAME

INTERVAL	QUALITY	%	ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POR TYPE
3260			continued.		as above.	
3940		50	Limestone mudst skeletal			
3940		100	Dolomite	BRN	as above, brown, sucrose texture dolomite, with some argillaceous material	
4197					Appears to be little change in in dolomite to 4197.	

1818

SECTION III

Section 3. Engineering Summary

(a) Drill Stem Tests - None run

(b) Casing Record

Ran 19 joints 606.61' of 9 5/8 N80 LT & C 40.0#
Casing Baker float shoe landed at 622.01. Cemented
with 375 sacks plus 4% $CaCl_2$.

Section 3. (c) Bit Record

Bit #	Size	Type	Conventional or Jet	Hrs. on Bottom	Footage Drilled	Depth Pulled	Remarks
1A	12 1/4	K2P	Jet	11	228	228	
2A	12 1/4	YS1	"	11 1/2	184	412	
3A	"	K2P	"	15 1/2	228	640	
1	8 5/8	YT1A	"	18 1/4	1014	1654	
2	"	"	"	13 3/4	456	2110	
3	"	M4L	"	8 3/4	256	2366	
4	"	T2	"	7 1/2	96	2462	
5	"	YH	"	11	128	2590	
*6	"	M4N	"	3 3/4	16	2606	
Core Bit							
1	7 13/16	Boyles	Diamond	4 1/4	30	2636	
*6	8 5/8	M4N	Jet	15 3/4	73	2709	Reamed 30'
7	"	"	"	18	106	2815	Reamed 103'
*8	"	"	"	8 1/4	45	2860	
Core Bit							
1	7 13/16	Boyles	Diamond	3 1/4	30	2890	
*8	8 5/8	M4N	Jet	1/4	2	2892	Reamed 30'
9	"	YH	"	6 1/2	37	2929	
* 10	"	W7	Cut Out	14 3/4	64	2993	
11	"	W7	Jet	20 1/2	164	3157	
12	"	M4N	"	21 1/4	162	3319	
13	"	"	"	24 1/4	261	3580	
14	"	"	"	14 1/4	167	3747	
*10	"	W7	Cut Out	1 1/2	11	3758	
Core Bit							
1	7 13/16	Boyles	Diamond	3 1/2	20	3778	
15	8 5/8	W7	Cut Out	23 3/4	274	4052	Reamed 20'
16	"	YH	Jet	6 3/4	145	4197	FTD

Section 3.

(d) Mud Report

Gel 113,450 lbs.

Soda Ash 550 lbs.

Caustic Soda 700 lbs.

CMC 1150 lbs.

Peltex 600 lbs.

Cronox 16 1/2 gals.

Quick Vis 16 3/4 gals.

Acrysol 14 1/2 gals.

Sawdust 1094 sacks

Fibretex 112 sacks

Weight Material 26,600 lbs.

Sparton Barytes 3000 lbs.

Diesel Fuel 2 1/2 gals.

Section 3. (e) Deviation Record

Totco at	90	Degrees off	7/8
	150		1/2
	240		1/2
	340		1/2
	440		1/2
	540		1
	630		1 1/4
	1100		1 1/2
	1600		1 3/4
	1637		2
	2110		3
	2330		4
	2462		4 3/4
	2590		5 1/2
	2643		5 7/8
	2705		5 7/8
	2770		5 3/4
	2815		6
	2855		5 3/4
	2890		5 1/4
	2920		5 1/4
	3044		4 7/8
	3130		5
	3300		4 1/4
	3406		3 3/4
	3560		4
	3680		3 1/4

Section 3.

(f) Abandonment Plugs

April 20/67	Plug #1	Ran 50 sacks cement plus 2% $CaCl_2$ on bottom felt for plug - no sign of cement.
April 21/67	Plug #2	4197-3750 with 200 sacks cement plus 2% $CaCl_2$
April 21/67	Plug #3	Ran 30 sacks cement plus 20 sacks Cal-seal on bottom. Felt top of plug at 4147. Set on plug with 15000#.
April 21/67	Plug #4	4147-3750 with 150 sacks cement.
April 21/67	Plug #5	3700-3575 with 50 sacks cement plug 2% $CaCl_2$ Felt at 3694
April 22/67	Plug #6	1850-1500 with 200 sacks cement plug 2% $CaCl_2$ Felt at 1358
April 22/67	Plug #7	670-570 with 60 sacks cement plus 2% $CaCl_2$ Felt at 627
April 23/67	Plug #8	with 60 sacks cement plus 2% $CaCl_2$ Felt at 486
April 24/67		Cut off casing 3' below ground level. Dropped 5 sack plug. Welded plate - 3 sacks in mouse hole - 5 sacks in rat hole.

Section 3.

(g) Lost Circulation Zones

April 3/67	Lost circulation at 2929' in Bear Rock. Pumped down 200 bbls. lost circulation material - no returns. Pumped down 20 bbls. lost circulation material - no returns. Pumped down 150 bbls. lost circulation material - mud 60' from top. Pumped down 90 bbls. lost circulation material. Regained circulation at 4:00 A.M. April 4 - 27 1/2 hrs.
April 8/67	Lost 3" of mud in 3 hrs. between 3460-3490 Bear Rock. Mixed 14 bags of sawdust.
April 9/67 9:15 A.M.	Lost circulation at 3747 - Bear Rock. Pumped down 148 bbls. lost circulation material - no returns. Pumped down mixture of gunny sacks and plastic. Pumped down 110 bbls. lost circulation material - no returns. Pumped down in stages - plastic, tar paper and gunny sacks.
April 10/67	Pumped down 152 bbls. lost circulation material. No returns. Pumped 125 bbls. mud (VIS 47 WT 8-9) down annulus. Got returns but lost circulation. Pumped down 48 bbls. lost circulation material. Pumped down 112 bbls. lost circulation material. Pumped down 32 bbls. lost circulation material - small returns with pump on.
Plug #1	15 sacks cement 15 sacks Cal-Seal displaced with 51 bbls. mud (VIS 55-60) - good returns 5 stands from bottom. Hit top of plug at 3717 - no returns.
April 11/67 Plug #2	20 sacks cement 20 sacks Cal-Seal Felt plug at 3687' - no returns.
Plug #3	25 sacks cement 25 sacks Cal-Seal Drilled to 3753 - no returns.
Plug #4	20 sacks cement 20 sacks Cal-Seal 25 gunny sacks ahead. Felt top of plug at 3693 - no returns.
April 12/67 Plug #5	40 sacks cement plus 4% $CaCl_2$. Felt plug at 3688 Regained circulation at 6:15 P.M.
April 13/67	Trip out 22 stands. Hole flowing gained 8". Broke circulation - no returns. Pumped 64 bbls. Annulus full. Ran in to 2929 and mud dropped in hole Pumped 152 bbls. lost circulation material at 2929 - no returns.

Plug #6	35 sacks cement plus 3% $CaCl_2$ at 2905 Felt at 2832 Drilled out and ran in on top of Plug #5 at 3688'
April 14/67	Drilled out Plug #5. Drilled to 3758 and lost 8" mud in 5' of hole.
Plug #7	25 sacks Gel 10 bbls. diesel fuel followed by 30 sacks cement plus 2% $CaCl_2$ - no returns.
Plug #8	50 sacks Gel 10 bbls. diesel fuel followed by 70 sacks cement plus 4% $CaCl_2$.
April 15/67	Trip out to 1500' broke circulation Ran 7 stands - broke circulation at 2135' Ran 5 stands to 2590 - losing mud Ran 5 stands to 3045 - losing mud Ran in to top of plug at 3753'.
Plug #9	65 sacks cement plus 4% $CaCl_2$ with 20 gunny sacks ahead. Felt plug at 3748' Regained circulation at 5:30 P.M.
April 17/67	Drilling with steady 2" stream of water - partial returns.
April 18/67	Lost circulation at 4197 Bear Rock. Pumped 144 bbls. lost circulation material - no returns. Pulled 30 stands Pumped 80 bbls. lost circulation material. Tripped in to bottom (4197) Pumped 25 bbls. lost circulation material - no returns. Pumped 54 bbls. lost circulation material - no returns. Tripped out to log.

B

Section 3.

(h) Report of Blowouts

March 27/67

A break had been taken for lunch, during a trip out of the hole and the hole had been left full. Three stands of pipe were pulled after lunch, and the well blew in, with three stands of drill collars in the hole.

The well was shut in, and a pressure of 600 PSI was recorded on the mud gauge. A gas sample was taken at the stand pipe. All the risers on the flare line were frozen open, and for safety reasons it was not possible to take a pitot tube pressure reading. The gas is sweet and was estimated at half a million cubic feet per day.

The mud weight was raised and pipe was run in the hole to circulate at successively lower levels. The gas flow was not killed until circulating off bottom.

SECTION II

Section 4.	Logs	
April 18/67	Induction E	622-4200
April 19/67	Borehole Compensated Sonic Gamma Ray Caliper	0-4199
April 19/67	Microcaliper	622-4200
April 19/67	Velocity Survey	622-4199

Section 5.

(a) Core Analysis

Core #2 and Core #3

CORE LABORATORIES - CANADA LTD. CORE LAB Petroleum Reservoir Engineering

COMPANY IMPERIAL OIL ENTERPRISES LIMITED FIELD RED ARTIC R FILE CNP-1-8747

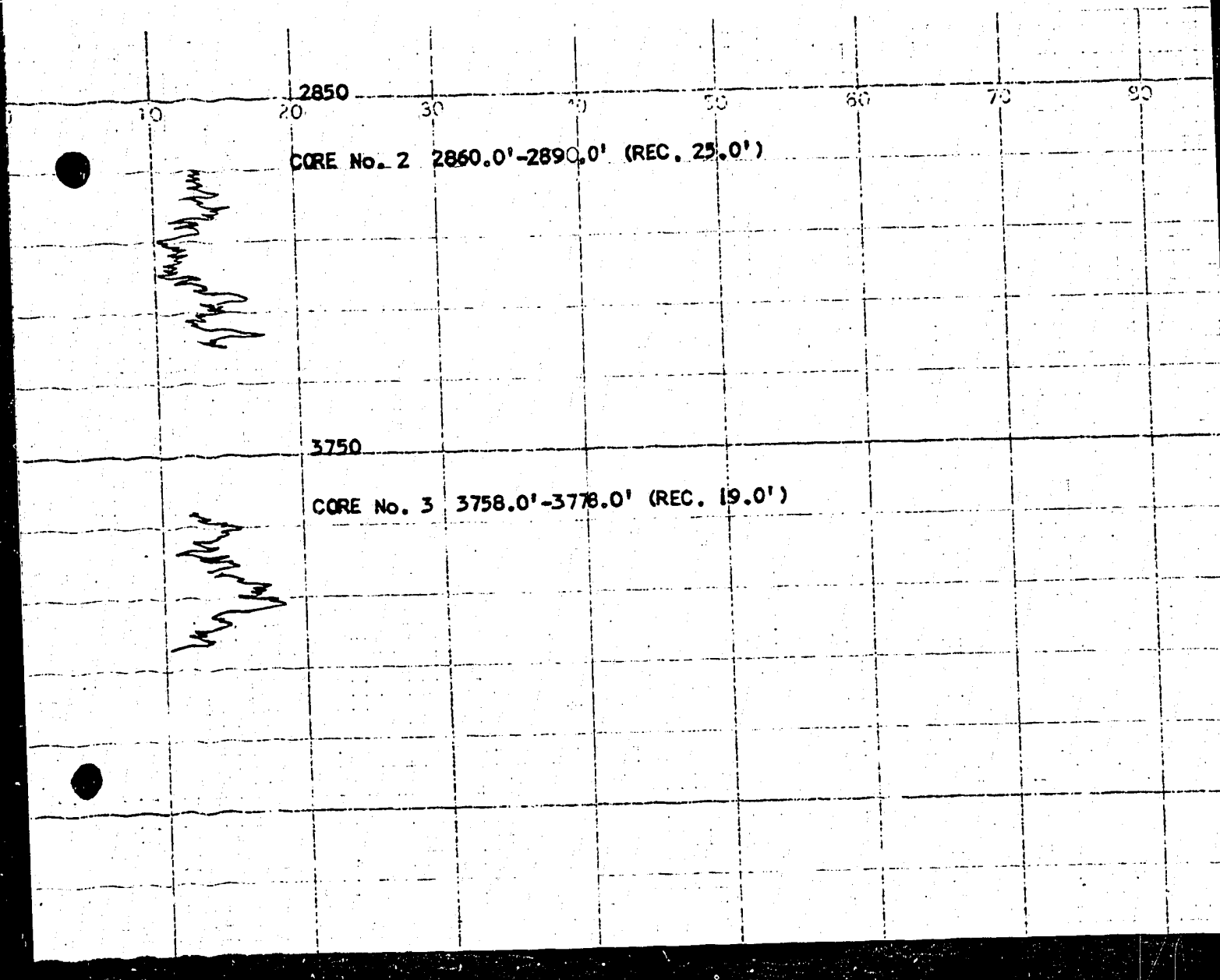
WELL IOE TREE RIVER H-38 DATE

LOCATION 67° 20'N 132° 15'W PROV NWT ELEV.

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories - Canada Ltd. (all errors and omissions excepted); but Core Laboratories - Canada Ltd. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with such report is used or relied upon.

TC 9 SECS VERTICAL SCALE: 5" = 100' SENS 5000 CPM



CORE ANALYSIS CODE KEY

I Permeability (md) Columns F, G, H

Code

(m) when K max, and K_H are measured
(r) when K radial is measured
(h) when a single horizontal K is measured

II Plug Quality (Column N)

Code Condition (Subcolumn 1)

1 - Fractured
2 - Missing (includes cement plugs)
3 - Broken or unconsolidated
4 - Uncored
5 - Portion of core not analyzed

Texture (Subcolumns 2)

1 - Dense

Interpretation (Subcolumns 3)

1 - Same as
2 - Interpreted Value (editing stage)
3 - Assigned footage
4 - Interpreted Values for footage, permeability, porosity and lithology

III Plug Type (Column O)

Code

1 - Full Diameter (includes 4 3/8", 3 1/2", 2 5/8", 2 3/4" Diameter)
2 - Slim hole (less than 2 1/2" diameter)
3 - Cubes - any size
4 - Horizontal test plugs - any size
5 - Vertical test plugs - any size
6 - Test plugs - all sizes - undifferentiated position
7 - Unconcolidated technique
8 - Combined plugs - Full diameter, plus cubes test plugs, etc.
9 - All measurements except vertical permeability on horizontal test plugs, vertical permeability takon on vertical test plugs
10 - Horizontal permeabilities run on small diameter plugs (other meas. full diameter)
11 - Full diameter (glazed surface removed)

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

KEY TO DESCRIPTION OF CARBONATE SAMPLE

ROCK POROSITY

(A) Large Vugs

(B) Vugs

(C) Cracks

(D) Fine Pores

(E) Impermeable

CHARACTER OF ROCK

(1) Dark Grey

(2) Grey

(3) Light Grey

(4) White

(5) Anhydrite

(6) Shales

(7) Iron Stains

(8) Pyrites

(9) Sand Grains

(10) Hard

(11) Medium

(12) Soft

(13) Oil Stains

(14) Pyrobitumin

(15) Stylolites

G. Glazed surface removed

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

Company - IMPERIAL OIL ENTERPRISES LTD.
Well - ICE TREE RIVER
Field - RED ARCTIC R AREA
Province - NORTHWEST TERRITORIES

Date Report - MAY 17, 1967
Location - 67° 20'N 132° 15' W
Formation -
D. Fluid - WATER BASE MUD

File - CNP-1-8747
Analysts - WD SM JP OK CH
Remarks - FULL DIAMETER

Note: All samples sandblasted prior to analysis

Plug No. (Card Field)	Interval Represented Top B	Base C	Thick D	Permeability (md) Maximum F	90° G	Vertical H	Porosity % I	Density Bulk J	Grain K	Plug Quality N Con-dition (1)	Texture (2)	Interpre-tation (3)	Plug Type O	Description
CORED INTERVAL 2860' - 2890'														
CORE NO. 2 2860 - 2890' (Rec. 25.0') (6 boxes)														
1	2860.0	2861.1	1.1	0.23	0.25	<0.01	5.7	2.55	2.70	-	-		11	C,D,2,11,15
-	2861.1	2862.5	1.4	-	-	-	-	-	-	5	-		-	Not analyzed by request
-	2862.5	2871.6	9.1	-	-	-	-	-	-	5	1		-	Dense Sty.
2	2871.6	2874.3	2.7	0.13	<0.01	<0.01	4.8	2.58	2.71	-	-		11	C,D,2,11,15
-	2874.3	2876.3	2.0	-	-	-	-	-	-	5	-		-	Not analyzed by request
3	2876.3	2878.6	2.3	<0.01	<0.01	<0.01	4.2	2.58	2.68	-	-		11	D,2,11,15
4	2878.6	2880.8	2.2	<0.01	<0.01	<0.01	1.6	2.66	2.70	-	-		11	D,2,11,15
-	2880.8	2885.0	4.2	-	-	-	-	-	-	5	-		-	Not analyzed by request
-	2885.0	2890.0	5.0	-	-	-	-	-	-	2	-		-	Lost core

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

Company - IMPERIAL OIL ENTERPRISES LTD.
Well - IOE TREE RIVER
Field - RED ARCTIC R AREA
Province - NORTHWEST TERRITORIES

Date Report - May 17, 1967
Location - 67° 20'N 132° 15' W
Formation -
D. Fluid - WATER BASE MUD

File - CNP-1-8747
Analysts - WD SM JP OK CH
Remarks - FULL DIAMETER

Note: All samples sandblasted prior to analysis

Plug No/ (Card Field)	Interval Represented Top B	Base C	Thick D	Permeability (md) Maximum F	90° G	Vertical H	Porosity % I	Density Bulk J	Grain K	Plug Quality N Con-dition (1)	Texture (2)	Interpre-tation (3)	Plug Type O	Description
CORED INTERVAL 3758' - 3778'														
CORE NO. 3 3758' - 3778' (Rec. 19.0') (4 boxes)														
-	3758.0	3760.5	2.5	<0.01	<0.01	<0.01	7.7	-	-	5	-	1		Appears similar to No. 1
													11	D,2,11,15
							7.7	2.54	2.74	-	-		11	D,2,11,15
1	3760.5	3762.9	2.4	<0.01	<0.01	<0.01	0.5	2.70	2.71	-	-		-	Appears similar to No. 2
2	3762.9	3764.6	1.7	<0.01	<0.01	<0.01	0.5	-	-	5	-	1	-	Appears similar to No. 3
-	3764.6	3766.3	1.7	<0.01	<0.01	<0.01	0.5	2.67	2.69	5	-	1		
													11	D,2,11,15
							0.5	2.67	2.69	-	-		11	D,2,11,15
-	3766.3	3770.3	4.0	<0.01	<0.01	<0.01	1.3	2.66	2.69	-	-			Appears similar to No. 4
3	3770.3	3772.1	1.8	<0.01	<0.01	<0.01	1.3	2.66	2.69	5	-	1		
4	3772.1	3774.1	2.0	<0.01	<0.01	<0.01								Lost core
-	3774.1	3777.0	2.9	<0.01	<0.01	<0.01	-	-	-	2	-			
-	3777.0	3778.0	1.0	-	-	-								

(b) Water Analysis - ~~none~~

FORMATION WATER ANALYSIS

Report No. L-29167 Date May 1, 1967

Sample: I.O.E. Tree River H-38
H-38 67° 20' N, 132° 15' W
Sample taken from salt water contaminated mud,
salt water coming in at 2929' and 3747', or both.

Specific Gravity 60/60 = 1.025

pH = 12

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	9,488	29.44	x	412.5	36.70
Calcium	Ca	2,940	9.13	x.04990	146.7	13.05
Magnesium	Mg	34	0.11	x.08224	2.8	0.25
Sulphate	SO_4	1,835	5.70	x.02082	38.2	3.40
Chloride	Cl	17,021	52.82	x.02820	480.0	42.70
Carbonate	CO_3	360	1.12	x.03333	12.0	1.07
Bicarbonate	HCO_3	-	-	x.01639	-	-
Hydroxide	OH	541	1.68	x.05879	31.8	2.83
Salinity =		32,219	100.0		1124.0	100.0
Totals =						

a = 36.70
b = 13.30
c = 46.10

Class No.

Primary salinity	= alkali salinity	=	73.40
Secondary salinity	= permanent hardness	=	18.80
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	7.80
		Total =	100.0

Remarks:

Analysis by: BEF

(c) Gas Analysis

Sampled from blowout - see Section 3. (h)

1739

IMPERIAL OIL LIMITED - ENGINEERING LABORATORY

CONFIDENTIAL

GAS ANALYSIS REPORT

Laboratory Report No. L-26367

Date: April 13, 1967

Date Sampled: March 27, 1967

Date Analysis: April 11/67

Sample of: ICE TREE RIVER 67° 20' 132° 15' W-38

Sample No.. Bomb #G-120

0-2366' Bottomed in Canol

Gas Sample from Blowout

Component	Mols. %	Wt. %	G.P. Mcf.
Carbon dioxide	4.22		
Hydrogen Sulphide	-		
Hydrogen	.02		
Helium	.02		
Nitrogen	0.49		
Methane	92.77		
Ethane	1.27		
Propane	0.77		.176
Iso Butane	0.15		.041
Normal Butane	0.15		.039
Iso Pentane	0.08		.024
Normal Pentane	0.02		.006
Hexanes plus	0.04		.015
Total	100.00		
Total Hydrocarbons	95.25		.301

S. G. air = 1 (calculated) .6184

S. G. air = 1 (observed)

Gross Calorific Value

B. T. U./cu. ft.

	at 60°F, 14.65 psia. dry	at 60°F, 14.73 psia. & water sat.
calculated	996	984
by Junker Calorimeter		

Remarks:

Operator: Jim Szarka

File:

1739

IMPERIAL OIL LIMITED - ENGINEERING LABORATORY

CONFIDENTIAL

GAS ANALYSIS REPORT

Laboratory Report No. L-26367

Date: April 13, 1967

Date Sampled: March 27, 1967

Date Analysis: April 11/67

Sample of: ICE TREE RIVER 67° 20' 132° 15' H-38

Sample No.. Bomb #G-114

0-2366', Bottomed in Canol

Gas Sample from Blowout

Component	Mols. %	Wt. %	G.P. Mcf.
Carbon dioxide	4.30		
Hydrogen Sulphide	-		
Hydrogen	0.02		
Helium	0.02		
Nitrogen	0.67		
Methane	92.48		
Ethane	1.24		
Propane	0.79		.181
Iso Butane	0.16		.043
Normal Butane	0.15		.039
Iso Pentane	0.08		.024
Normal Pentane	0.02		.006
Hexanes plus	0.07		.027
Total	100.00		
Total Hydrocarbons	94.99		.320

S. G. air = 1 (calculated) .6212 S. G. air = 1 (observed)

Gross Calorific Value

	B. T. U./cu. ft. at 60°F, 14.65 psia. dry	B. T. U./cu. ft. at 60°F, 14.73 psia. & water sat.
calculated	995	983
by Junker Calorimeter		

Remarks:

Operator: Jim Szarka

File:

(d) Oil Analysis - none

SECTION VI

Section 6. Completion Summary

(a) Tubing Record - none run

(b) Perforation Record - not perforated

(c) Cementation Record - See Section 3. (f) & (g)

(d) Acidization and Fracturing Record - none

(e) Back Pressure and Production Tests - none

Form 34402 (300 bks.-10-64)-P.P.Co.

I.OE TREE RIVER.
N-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 41

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Nat #3 Type Rig Nat 100 Month April Day 28 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Repairing skip Boxes and pallets.			
Loading skip Boxes, pallets.			
Blocking and securing equipment			

Driller Kanneman

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Tearing out camp. Loading some clearing up footings and walkways around camps.			

Driller Fitzgerald

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Setting up camp.			

Driller Kiggin

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher L. E. Rocket Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

I.OE TREE RIVER
N-38-G-T - 20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 40

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Nat #3 Type Rig Nat 100 Month Apr. 1 Day 27 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Tear out			
Remove, Haul substructure.			
Remove Matting			

Driller Lanneman

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Tear out			
Take down garage.			

Driller Fitzpatrick

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Tear out.			
Cleaning, piling footings			
Tear out mall and prefabs at camp.			

Driller Higgin

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher Lee Hockey Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. T.O.E TREE RIVER N-37-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 39

LSD..... SEC..... TWN..... RGE..... W..... Contractor T.O.E. NAT 3 Type Rig NAT 100 Month APRIL Day 26 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
HAUL & SET IN BOILER			
CHECK BOILERS			

Driller Kormanian

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
TEAR OUT + HAUL DERRICK - MUD VANS			

Driller Fitzpatrick

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Tear out Remove motors Drawworks.			

Driller Kuppen

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher M. Elstockey Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I.O.E. TREE RIVER H-38-67-20-133-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 38

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E NAT #3 Type Rig NAT 100 Month APRIL Day 25 19.....

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH From	To	Hole Made	Hole Size	Formation

DRILLING STRING Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECOLD No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS Kind at Ft. Deg. off

PUSH PUMP RECORD	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
PREPAIR RIG BUILDINGS FOR SHIPMENT			

Driller Kormendy

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
TEAR OUT & HAUL MUD TANKS, PUMPS & MOTOR			

Driller Kilpatrick

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
HAUL & RACK MISC EQUIPMENT			
30% TORE OUT			

Driller.....

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 37

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month APRIL Day 24 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
				5/4	
RR Midnight Apr 23					

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TEARING OUT	12	8	8

Driller McLoughlin

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TEARING OUT	8 00	4 00	8

Driller Kommenicu

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 SACKS CEMENT - TOP CASING					
3	—		—		MOUSE HOLE.
5	—		—		RAT HOLE.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
STRIP DERRICK TO LAY DOWN - TEAR OUT LAY DOWN DERRICK	4 00	12 00	8

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 36

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT. 100 Month APRIL Day 23 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH From	To	Hole Made	Hole Size	Formation
4197			8 3/8	

DRILLING STRING Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS					

PUSH PUMP RECORD	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					4 GAL. CRONOX 235 IN DRILL PIPE.
					TOP OF PLUG # 7 @ 627

CORING From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
W.O.C	12	7	7
LAY DOWN 4 1/2 PIPE			
LAY DOWN 6 3/4 D COLLARS			
CLEAN MUD TANK.			
RUN IN TO FEEL FOR PLUG	7	7 15	1/4
PLUG TOO LOW			
PULL OUT	7 15	7 30	1/4
PREPARE TO RUN PLUG	7 30	8	1/2
			8

Driller W. Cogdill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					RAN PLUG # 8 60SAX CEMENT WITH 2% CaCl2 PLUG DOWN @ 8 45 AM

CORING From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
RIG UP TO RUN PLUG # 8	8 00	8 15	1/4
RUN PLUG	8 15	8 45	1/2
W.O.C.	8 45	4 00	7 1/4
			8

Driller Kornsomen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH From	To	Hole Made	Hole Size	Formation
4197				

DRILLING STRING Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					5 GAL. 2 1/2 CRONOX
					TOP OF PLUG # 8 @ 486 HELD WEIGHT OF DRILL PIPE.

CORING From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
W.O.C	4 00	4 45	3/4
RUN IN FEEL FOR PLUG	4 45	5 00	1/4
LAY DOWN D/P	5 00	5 45	3/4
SET BACK ROTARY TABLE			
BREAK DOWN BLOW DOWN LINE			
LAY DOWN HYDRIL			
LAY DOWN MOUSE HOLE		12 00	6 1/4
			8

Driller [illegible]

HEADING UP & DRLG. OUT: DRILLING: REAMING:

CLASSES OF TIME BREAKDOWN: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 35

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT 3 Type Rig NAT 100 Month APRIL Day 22 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6 AM	45				2 1/2 GAL. CRONOX-235
					2 1/2 GAL DIESEL FUEL
					IN DRILL PIPE

Felt for plug #5

Hit plug at. 3694.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C.	12		
PULLED OUT			
LAYED DOWN 15 SINGLES			
MEASURED IN HOLE		7 15	7 1/4
FELT FOR PLUG #5	7 15	7 30	1/4
PULLED 20 STANDS	7 30	8	1/2
			8

Driller: [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					5 GAL. CRONOX

Plug #6. 1850-1500. w/200 cement 2% Cal. Cl. Plug down 9 PM.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN PLUG #6	8 00	9 00	1
LAY DOWN 20 STD. DR PIPE	9 00	10 30	1 1/2
W.O.C.	10 30	4 00	5 1/2
			8

Driller: Kornemann

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					2 1/2 GAL CHROMOX

PLUG #7 - INTERVAL 670' - 570' WITH 60 CEMENT 2% CAL

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
FELT PLUG #6 @ 1358'				WITH	10,000 #

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WOC	4 00	7 45	3 3/4
RUN IN FEEL FOR PLUG	7 45	8 15	1/2
PULL OUT	8 15	8 45	1/2
PREPARE TO RUN PLUG #7	8 45	10 00	1 1/4
RUN PLUG #7	10 00	10 30	1/2
PULL OUT LAY DOWN D/P	10 30	11 00	1/2
WOC	11 00	12 00	1
			8

Driller: [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 34

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month APRIL Day 21 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 1000#
					ACRYSOL ½ GAL

Ran plug #2. 4197-3750
200 Cement. 2% Cal. Cl.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

Plug down @ 1.15 A.M.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RAN CEMENT PLUG	12	1.15	1¼
PULLED 10 STANDS			
W. O. C.	1.15	8	6¾
			8

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	45	1	20 IN		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
Ran Plug #3,					30 sacks cement
Plus:					26 sacks Cal-seal.
on bottom.					
Felt for plug in 6 hrs. H.T.					
top of plug @ 4147.					

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

Set on plug with 15000 lbs.

	From	To	Hrs.
W.O.C.	8.00	12.00	4
FEEL FOR PLUG RUN	12.00	2.00	2
PLUG #3	2.00		
TRIP OUT		4.00	2
			8

Driller Kormeniow

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	71	8.7			1500# GEL
					3/4 gal Acrysol
					WATER

Ran plug #4. 4147-3750 w/150 cement. Plug down.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RUN IN 41 1/3 STANDS	4.00	5.00	1
CONDITION MUD	5.00	9.00	4
PREPARE TO RUN PLUG #4	9.00	9.45	3/4
RUN PLUG	9.45	10.15	½
PREPARE TO RUN PLUG #5	10.15	11.15	1
RUN PLUG	11.15	12.00	3/4
Plug #5, 3700-3575			
with 50' Cement 2% Cal. Cl.			8
Plug down. 11.45 P.M.			

Driller E. Patrick

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 33

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month APRIL Day 20 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WAIT ON ORDERS.	12.	8	8

Driller.....

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
Ran 30 sack Plus 2% Cal Cl abandonment plug on bottom Plug down @ 4 P.M.					

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WAIT ON ORDERS	8 00	11 30	3 1/2
TRIP IN WITH OPEN END PIPE. - MEASURE.	11 30	1 00	1 1/2
RIG UP TO RUN BOTTOM PLUG. RUN PLUG #1	1 00	4 00	3
			8

Driller Kormenicki

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7 30	150				1900# GEL
8 30	87	8.7			1/2 gal Acryflo. WATER
Ran in, tag top plug 11 45 P.M. No cign of cement.					

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN PLUG #1	4 00	4 30	1/2
WOC	4 30	11 45	7 1/4
F.H for plug	11 45	12 00	1/4

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-45

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 32

LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT. 100 Month APRIL Day 19 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

No. 1
No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Water
					GEL 1400#
					ACRYSOL ½ Gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
LOGGING	12		
SONIC CALIPER LOG			
MICRO LOG		8	8

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
LOGGING	8 00		
VELOCITY SURVEY		2 00	6
RUN IN 12 DC.	2 00	2 30	1/2
WAIT ON ORDERS	2 30	4 00	1 1/2

Driller Kornienchuk

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
LAY DOWN 12 D/CS.	4 00	5 30	1 1/2
WAIT ON ORDERS	5 30	12 00	6 1/2
			8

Driller Popofiel

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher G. Bennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 31

OETREE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Nat 100 #3 Month April Day 18 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4145	4197	52	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2.	38	—	9	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length
	23	6 3/4	2 3/4	650.63

INDICATOR WEIGHT OF TOTAL: DRILLING STRING 128M; DRILL COLLARS 56M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Footage Drilled	Footage Reamed
16.	YH.	8:00 PM.	2:00 AM	6 3/4	4197	40-45	145	

Bit Serial No. E23125 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 4/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	Hours On Line	Hours Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			200	14"	36	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	34	8.7			WATER
2:00	34	8.7			GEL 2500#
					WT. MAT. 3300#
					CMC 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12:00	2:45	2 3/4
Lost circulation at 4197	2:45		
Shut pump of well flowing			
Back			
Mixing weigh material		5:00	2 1/4
Trip out	5:00	6:45	1 3/4
Run in with open pipe	6:45	8:00	1 1/4

Driller Alfred Kruger

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	45	1			

DRILL COLLAR DATA	Number	OD	ID	Length

INDICATOR WEIGHT OF TOTAL: DRILLING STRING; DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Footage Drilled	Footage Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	Hours On Line	Hours Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 3400#
					Quick vis ½ gal
					SAW DUST 105 Bags

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MIXING GEL & SAWDUST	8	11	3
PUMPED AWAY 144 BBL. MUD	11	12	1
NO. RETURNS			
PULLED 15 STANDS	12	12:45	3/4
MIXING MUD	12:45	3	2 1/4
PULLED 15 STANDS	3	3:30	1/2
PUMPED AWAY 80 BBL MUD	3:30	4	1/2
			8

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4197			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	45	1			

DRILL COLLAR DATA	Number	OD	ID	Length

INDICATOR WEIGHT OF TOTAL: DRILLING STRING; DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Footage Drilled	Footage Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	Hours On Line	Hours Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	70	8.7			Water
					15 M lbs wgt mtrl
					2000 lbs gel
					16 gal. Tannyzol

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
MUD 10 FEET BELOW FLOW NIPPLE. DROPPING SLOWLY.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN TO BOTTOM. PUMP	4:00		
AWAY 25 BBLS MUD. NO RETURNS		5:30	1 1/2
MIXING MUD, PUMP DOWN	5:30		
HOLE 54 BLS. NO RETURNS		8:30	3
TRIP OUT	8:30	10:00	1 1/2
RIG UP TO LOG	10:00	10:30	1/2
LOGGING - INDUCTION	10:30		
ELECTR. SURVEY		12:00	1 1/2
			8

Driller Kornerman

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 30.

I.O.E TREE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Natco #3 Month APRIL Day 17 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3810	3960	90	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½.	35	2.	30.	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	23	6¾	2¾	650.63	DRILLING STRING	DRILL COLLARS
					122M.	56M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	W7	2 30 PM.		17¼.		45M.	184	

Bit Serial No. 40419 Table R.P.M. 60

~~Jet or Conventional~~ - Cut out. Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7¾		100	14"	36	5¾
No. 2		8		18"		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	33	8.7			WATER
2:00	33				GEL - 4700#
4:00	34	8.8			CMC - 225#
6:00	34	8.7			
7:30	34	8.7			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	4 30	4½.
Cleaning crud out of E500.	4 30	4 45	¼.
Drilling	4 45	8 00	3¼.

Driller Clifford Hagen

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3960	4052	92	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	36	1	DOWN	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	23	6¾	2¾		DRILLING STRING	DRILL COLLARS
					122 M	56 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	W7	2 30 PM	3PM	23¾	4052	45M	276	18

Bit Serial No. 40419 Table R.P.M. 60

Jet or Conventional - CUT OUT Nozzle Size

Kind at Ft. Deg. off

PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		100	14"	34	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	34	8.7			GEL 2900#
10 30	35	8.8			CMC 275#
12 00	37	8.7			Water
2 00	33	8.7			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
DRILLING WITH STEADY 2" STREAM OF WATER PARTIAL RETURNS.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8	11 15	3¾
PULLED 5 STANDS - RUN BACK IN	11 15	11 45	½
DRILLING	11 45	3	3¼
TRIP OUT	3	4	1
			8

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4052	4145	93	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	37	1	1	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	23	6¾	2¾	650.63	DRILLING STRING	DRILL COLLARS
					125 M	56 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
16	YH	8 00 PM				45M		

Bit Serial No. E 23125 Table R.P.M. 60

~~Jet or Conventional~~ - Nozzle Size 3 9/16

Kind at Ft. Deg. off

PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4		200	14	35	5¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	35	8.7			Water
10 00	34	8.7			2200 lbs Gell
11 00	34	8.7			50 lbs CMC
					½ Gal Quick Vis

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDIT. BIT #15 T 6-B7-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	4 00	4 45	¾
SERVICE RIG CHECK BOPS	4 45	5 15	½
RUN IN DC. + 5 STDS.	5 15	5 45	½
MIXING MUD	5 45	6 45	1
TRIP IN - SLOW -	6 45	8 00	1¼
DRILLING	8 00	12 00	4
			8

Driller Hommeman

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 14-38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 28

T. OTTERRIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Nat 100 #3 Month APRIL Day 16 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758.	3776	18	7 13/16"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½.	36	1	6 inches	312.67.	62.49

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	11	6¾	2¾.	312.67	100M	26M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	DIA	1 15 AM.	4 45 AM	3½	3776	15	18.	

Bit Serial No. 29-66 Table R.P.M. 60

Jet ~~or Conventional~~ - DIA Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3	3	500-300	14"	30	5¾
No. 2		3		18"		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:30	43				WATER
3:30	40	8.8			GEL - 3300#
4:30	40	8.8			QUIK-VIS-½ GAL

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3758.	3776	18	17	3.	Hycalog.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in to Core.	12 00	12 45	¾.
Filling Pipe Cleaning to Bottom.	12 45	1 15	½
Coring	1 15	4 45	3½
Trip out with Core. Hole Flowing	4 45		
mud. Put Kelly on, circulate		7 30	
every 5 stands.			2¾.
Recovering Core.	7 30	8 00	½

Driller Clifford Kuggan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3776	3790	14	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	33	1	18	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6¾	2¾		120M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	W7	2 30 PM				45M		18'

Bit Serial No. 40419 Table R.P.M. 60

Jet or Conventional - CUT OUT Nozzle Size —

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			100	14"	33	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 AM	33				GEL 6400 #
11 AM	37				CMC 400 #
12	40				
30	37	8.7			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
SERVICED RIG CHECK B.O.P			
LAY DOWN CORE BBL.	8	8 45	¾
RUN IN DRILL COLLARS	8 45	9 15	½
mix mud	9 15	1	3¾
TRIP IN	1	2	1
REAMING - CORE HOLE	2		
3758 - 3776 - 7 13/16 TO 8 5/8		2 30	½
DRILLING	2 30	4	1½
			8

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3790	3870	80	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	34	2	29	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6¾	2¾	650.63	122M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	W7	2 30 PM				45M		

Bit Serial No. 40417 Table R.P.M. 60

Jet or Conventional - CUT OUT Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		100	14	33	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	37	8.7			Water
630	35	8.7			200 lbs CMC
800	35	8.7			4200 lbs gel
1000	34	8.7			
1100	33	8.7			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4 00	12 00	8

Driller Kormenicon

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher G. Bennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132.5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 28.

I.O.E TREFRIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E Type Rig Nation #3. Month APRIL Day 15 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758.				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½.	40	2.			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					GEL - 2100#
					QUICK-VIS - ¾ GAL

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out to 1500'	12 00	12 30	½.
W.O.C. Mixing Mud.	12 30	4 00	3½.
Brake circulation at 1500'	4 00	4 30	½
Run 7 stands Brake cir 2135'	4 30	5 30	1
Run 5 stands 2540' Losing mud.	5 30	6 00	½
Run 5 stands 3045' Losing mud	6 00	7 00	1
Run to top of Plug 3753'	7 00	7 30	½.
Mixing Mud.	7 30	8 00	½

Driller Clifford Kingan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½.	40	2.			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
					70M	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 2400#
					QUICK VIS ½ gal
					Water

Plug #9 65 Cement 4% Ca/Cl2 with 20 gunny sacks ahead.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Plug down.			10 30 AM.		

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PREPARE TO RUN PLUG #9	8	9 30	1½
CEMENTING	9 30	10 30	1
PULLED 19 STANDS	10 30		
W. O. C.	10 30		
MIX MUD			
CLEAN UP CEMENT UNIT			
SERVICE RIG			
CHECK KELLY COCK		4	5½
			8

Driller L.O. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758			7 13/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½				313.31	62.49 JARS

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
COLLAR	11	6¾	2¾	313.31		
DATA						36M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	DI12.							

Bit Serial No. 29-66 Table R.P.M.

Jet or Conventional - DIAMOND Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	2½			14		5 3/4"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	56	8.7			Water
9 00	51	8.6			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3758				3	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C.	4 00	5 30	1½
TRIP IN FEEL PLUG #9 @ 3748	5 30		
CIRCULATE		8 30	2½
TRIP OUT	8 00	9 30	1½
PICK UP & SERVICE CORE BBL	9 30	10 45	1¼
~~WORKING ON~~ REPAIR	10 45		
DRUM CLUTCH CONTROL LEVER		11 30	¾
TRIP IN WITH CORE BBL.	11 30	12 00	½
			8

Driller Kormochuk

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 27

LOBTREE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.D.E Type Rig Natco #3 Month APRIL Day 14 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753	3758.	5	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	40	2			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1 1/2		350	14	70	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					GEL 2500#
					QUICK-VIS - 3/4 gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling out Plug #5 3684'	12 00	1 30	1 1/2
Drilled 5' Hole. taking mud.	1 30		
8" mud lost 5 feet of Hole.		2 00	1/2
Trip out	2 00	3 30	1 1/2
Trip in with open end pipe	3 30	4 30	1
Conditioning mud.	4 30		
Hooking up cement Unit		8 00	3 1/2

Driller Clifford Kirpan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758			8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2				650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4				56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. 40419 Table R.P.M.

Jet or Conventional - CUT OUT Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 400#

Run 25 sack Gel 10 bbls diesel / Surf plug. followed by 30 sack cement plug. 20 Cal Cl. Plug down 10 PM.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PREPARE TO RUN PLUG	8	9 30	1 1/2
RUN PLUG	9 30	10 15	3/4
~~START TO CEMENT~~ W.O.C	10 15		
TRIP OUT		11 15	1
CLEAN UP CEMENT UNIT	11 15	12	3/4
SERVICE RIG - CHECK B.O.P	12	12 30	1/2
TRIP IN WITH BIT	12 30	2	1 1/2
~~[illegible]~~ NO. CIRCULATION	2		
PULLED 5 STANDS NO CIRCULATION		4	2
TRIP OUT			8

Driller [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3758				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					~~2500 lbs GEL~~
					4000 lbs Gel.

Run plug #8 50 sack gel 10 bbls diesel. 20 Cement 40 Cal Cl.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Plug down 11 PM.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MIXING MUD + CIRC. 13 STDS.	4 00		
OFF BOTTOM		5 30	1 1/2
TRIP OUT	5 30	6 30	1
RUN IN WITH OPEN END	6 30	8 30	2 1/2
RIG UP TO RUN PLUG	8 30	9 30	1
RUN DIESEL GEL + PLUG #8	9 30	11 00	1 1/2
TRIP OUT	11 00	12 00	1
			8

Driller Kormeman

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 26

LOE TRACE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Nat 100 #3 Month APRIL Day 13 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753.				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½.					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					GEL- 1600#
					FIBRE-TEX - 12 Bags
					Sawdust - 85 Bags
					QUICK-VIS - ½ gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out (Measure Pipe) 22 stands	12 00		
Hole flowing gained 8", 22 stands			
Broke circulation no returns.			
Pumped 64 Bbls. (annulus full)		2 00	2
Run into 2924' mud dropped in Hole	2 00	2 30	½
Mixing lost circulation material	2 30	4 30	2
Pump same at 2924' 152 Bbls.	4 30	6 00	1½
No returns. sawdust			
Mixing mud, Clean out both pumps	6 00	8 00	2.

Driller Clifford Hippen

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 1900#
					QUICK VIS ¾ gal

RIH 35 sack cement plug + 3% CaCl Cl @ 2905. 11 PM.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
GREASED BLOCKS			
MIXING MUD	8	8 30	½
PREPARE TO RUN PLUG #6	8 30	10 30	2
CEMENTING	10 30	11	½
PULLED 5 STANDS	11	11 15	¼
W. O. C.	11 15	4	4¾
MIXED MUD			
SERVICED RIG			8

Driller

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	36	1	25	313.31	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
COLLAR	11	6¾	2¼	313.31		
DATA					95 M	26 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR10	W7							

Bit Serial No. 41432 Table R.P.M.

Jet or Conventional - CUT OUT Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	4		400	14	70	5¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11 00	48	8.7			Water
					200 lbs. PELTEX
					200 lbs. soda ash

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRC. 5 STDS TOP OF PLUG	4 00		
#6		6 00	2
TRIP OUT WITH OPEN END DP	6 00	7 00	1
RUN IN WITH BIT + FEEL FOR	7 00		
PLUG #6 @ 2832. DRILL OUT		8 30	1½
RUN IN ON TOP OF PLUG	8 30		
#5 @ 3688		9 30	1
CIRC. CONDITIONING MUD	9 30	12 00	2½
			8

Driller Kormeman

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H-38-67-20-132-5

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 25

LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. Type Rig Nat 100 #3 Month APRIL Day 12 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
2 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					GEL. 3500#
					QUICK-VIS. 3/4 GAL.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out Plugged Pipe	12 00	12 30	1/2
Layed down 5 singles	12 30	12 45	1/4
Picked up 5 singles	12 45	1 00	1/4
Run in 4 stands of Bottem	1 00	2 00	1
W.O.C. Conditioning Mud.	2 00	4 00	2.
Broke Cir. 4 stands of Bottem.	4 00	4 30	1/2
Mud 30' From Flow nipple no	4 30		
returns. Mixing Mud.		7 30	3
Run into top of plug 60' of Bottem	7 30	8 00	1/2

Driller Clifford Kippen

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	40	1			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 1400#
					Quick vis 1/2 gal.
					Run plug #5. 40 sacks cement
					+ 4% Cal Cl

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CLEAN OUT PLUG	8	8 30	1/2
PREPARE TO RUN PLUG	8 30	10 30	2
RUN PLUG #5	10 30	11	1/2
TRIP OUT	11	12	1
W.O.C.	12	4	4
MIX MUD			
SERVICED RIG			
CHECK & GREASE KELLY COCK			

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3753				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	39	2	3		

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
				15		
				18		

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11.00	56	8.7			2500 lbs GELL
					1 GAL Quick Vis
					250 lbs soda ash
					Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C.	4 00	5 15	1 1/4
RUN IN & FEEL FOR PLUG #5	5 15	6 00	3/4
CIRCULATE. REGAINED CIRC			
@ 6 15 PM.			
CIRC. & DUMP CONTAMINATED	6 00		
MUD & SALT WATER			
COND IT. MUD		11 00	5
MEASURE OUT	11 00	12 00	1
			8

Driller Kormenick

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 24

LOE TREE RIVER LSD. H38-67-20-132-5 SEC. ..... TWN. ..... RGE. ..... W. .....

Contractor LOE Rig N17-3 Type Rig N7-100 Month APRIL Day 10 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
3747			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3 1/2	4 1/2	200	14"	47	5 3/4
	8		18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	170	8.7			40 bags of Sawdust
600	80	8.7			1500# GEL
700	60	8.8			1/2 gal Quick-Vis
730	55	8.8			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
PLUG #2 - 20 SACKS CEMENT 20 SACK CAL-SEAL					

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
PREPARE TO RUN PLUG #2	1200	1245	3/4
RUN CEMENT CAL-SEAL PLUG	1245	1 15	1/2
PULL 4 STANDS	1 15	1 30	1/4
W.O.C - MIX MUD & SAWDUST	1 30	4 30	3
CIRC. CONDITION MUD	4 30	800	3 1/2
			8

Driller: E. Patrick

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
3747				

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					GEL - 400#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Plug #3 25 sacks cement				25 sack Cal-Seal.	

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
Circulating Condition Mud	8 00	9 00	1
Feel for plug, 80' of Bottom.	9 00	9 30	1/2.
Pumping through plug	9 30		
No returns on Bottom.		10 00	1
Pull up Prepare to run Plug #3	10 30	12 00	1 1/2
Run Plug #3.	12 00	12 30	1/2.
Pull 4 stands.	12 30	12 45	1/4.
W.O.C. Mixing mud.	12 45	2 45	2
Pull out of Hole.	2 45	4 00	1 1/4.

Driller: Clifford Kippen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
3747	3753	6	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	33	1	24	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
COLLAR	23	6 3/4	2 3/4			
DATA						56M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR10	W7							

Bit Serial No. 41432 - Table R.P.M.

Jet or Conventional - CUT OUT Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL. 2000 LBS
					1/2 GAL QUICK VIS.
1					

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Plug #4. 20 sack cement. 20 sack Cal. seal. 25 sawdust bags ahead					

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
SERVICE RIG - CHECK B.O.P	4	4 15	1/4
RUN IN TO 2000' - CIRCULATE	4 15	5 15	1
RUN IN TO BOTTOM	5 15	6 15	1
DRILLING - NO RETURNS	6 15	7	3/4
TRIP OUT	7	8 30	1 1/2
TRIP IN - OPEN END PIPE	8 30	10	1 1/2
PREPARE TO CEMENT	10	11	1
CEMENTING	11	11 30	1/2
TRIP OUT - PIPE PLUGED	11 30	12	1/2

Driller: W. Coghill

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher: G. Smith Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 23

10 Mile River LSD H38-67-20-132-5 SEC. ..... TWN. ..... RGE. ..... W. .....

Contractor 10 F Type Rig NAT 100 (Rig Nat 3) Month April Day 10 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3747				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	40	1			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					5600# Lost Material
					3500# Gel
					½ Quick-Vis
					132 bags of Sawdust
					Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Pump Down In Stages & Sawdust Bags					Plastic - Tar Paper

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Pump 152 Bbl - No Returns	12:00	1:00	1
Mix Mud - Vis 47 - Wt 8.9	1:00	3:30	1½
Pump 125 Bbl Down Annulus	3:30		
Got Returns But Lost Circ.		4:30	1
Mix Lost Circ. Material	4:30	7:15	2¾
Pump Down 48 Bbl	7:15	8:00	¾
			8

Driller Patrick

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3747				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	40	1			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Water
					Gel - 3500#
					Quickvis - 1¼ gal
					Fibre Tex - 10 Bags
					Sawdust - 55 Bags

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Pump Down 112 BBLs	8:00	10:00	2
Pulled ten stand.	10:00	10:30	½
Mixing lost circulating mat.	10:30	12:00	1½
Pump down 32 BBLs	12:00	1:30	1½
Pulled ten stands.	1:30	1:45	¼
Pump down 128 BBLs small returns with pump on.	1:45	2:45	1
Mixing 55-60 Viscosity mud	2:45	4:00	1¼

Driller Clifford Tigger

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3747			8⅝	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½					

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					75 Sacks Sawdust
					500# Gel

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Plug #1 - 15 sacks cement - 15 sacks Cal-Seal displaced with 51 Bbl. mud.			
Trip in	4	4:30	½
Prepare to Run Plug	4:30	6	1½
Ran cement Cal-Seal Plug	6	6:30	½
Pulled 14 stands	6:30	7	½
W.O.C. mix mud	7	9:30	2½
Good returns 5 stands	9:30		
from bottom			
Hit top of plug 30' from			
bottom - no returns		12	2½
			8

Driller W. Cogill

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 22

Peace River LSD. H38 SEC. 67 TWN. 20 RGE. 132 W. 15 Contractor LOE Type Rig NAT 100 Rig NAT 3 Month April Day 9 19.67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3654	3728	74	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	33	—	20	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6¾	2¾	650.63	116M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
14	MHN	6 45 pm		13		35-40	148	

Bit Serial No. 826616 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 3-14/32

SURVEYS

Kind TOTCO at 3680 Ft. 3¼° Deg. off

PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8		900	14"	70	5¾
2				18"		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1200	42	9.2	13.4	10.5	WATER
2:00	42	9.2			500# GEL
4:00	41	9.3		10.5	¼ gal Quick-Vis.
6:00	44	9.1			
7:30	44	9.2		10.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12:00	3:00	3
TOTCO	3:00	3:15	¼
Drilling	3:15	8:00	4¾
			8

Driller: [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3728	3747	19.	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	33	—	1		

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
					118M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
14	HMHN	6 45 PM	8 15 PM	14¼	3747	35-40	167	

Bit Serial No. 826616 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 14/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
14¼		900	14	70	5¾
			18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	45	9.2			WATER
					FIBER-TEX - 17 Bags
					Sawdust 105 bags
					Gel 3000#
					Quick Vis 1 Gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Lost circulation @	3747		915		AH

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8:00	9:15	1¼
Lost circulation 3747'	9:15		
Trip out Pick up 10 singles			
Run in with open end pipe		12:00	2¾
Mixing lost circulating material	12:00	1:30	1½
Pump down 148 BBLS	1:30		
No returns		2:30	1
Mixing lost circulating material	2:30	4:00	1½

Driller: Clifford Kippen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3747				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	40	1			

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
						—

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					FIBER-TEX 13 Bags
					SAWDUST 12 Bags
					GEL 3100#
					Quick Vis 1½ gals

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
PUMPED DOWN MIXTURE OF SAWDUST SACKS & PLASTIC					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
mix LOST CIRCULATION MATERIAL	4		
PUMPED DOWN 110 BBLS.			
NO RETURNS.			
mix LOST CIRCULATION MATERIAL		12	8

Driller: [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE _____ REEL SERIAL No. _____

MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [illegible] Approved by _____

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

Rig Nat 3

DAILY DRILLING REPORT No. ~~20~~ 21

Location LSD 4-38-67-20-132-15 LSD..... SEC..... TWN..... RGE..... W..... Contractor IOE Type Rig Nat 100 Month April Day 8 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3420	3505	85	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	30	1	1	650.63	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	6 3/4	2 3/4	650.63	DRILLING STRING	DRILL COLLARS
DATA					114M	56

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
13	MHN	2:00 PM		17 3/4		40	186	

Bit Serial No. 743537 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 1-13 2-14

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		900/1400	14	50/70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12	41	9.2		10.5	14 bags of sawdust. WATER
2:00	40	9.3			50# Caustic
4:00	38	9.3	12.6	10.5	50# Pelter
6:00	39	9.1		10.5	1000# GEL
7:30	49	9.1		10.5	1/2 gal Quick-Vis

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Lost 3" Mud in 3 Hrs - Mix Sawdust 7 HM					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	1200	1900	8

Driller [signature]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3505	3540	75	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	31	1	18	650.63	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	6 3/4	2 3/4	650.63	DRILLING STRING	DRILL COLLARS
DATA					117M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
13	MHN	2 48 PM	2 42	2 1/4	3540	38-40	261	

Bit Serial No. 743537 Table R.P.M. 60.

Jet or Conventional - Nozzle Size 1-13 2-14

Kind Totco at 3560 Ft. 4 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6 1/2	1	1500	14"	70	5 3/4
			18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	46	9.1		10.5	WATER
10:00	45	9.1			GEL - 500#
12:00	47	9.1	10.4	10.5	QUICK VIS - 1/4 gal
2:30	46	9.2			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

CONDITION BIT #13 T5-B6-G1

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8 00	2 00	6
Repairing Pump E500	2 00	2 15	1/4
Drilling	2 15	2 45	1/2
Totco at 3560	2 45	3 00	1/4
Trip out	3 00	4 00	1

Driller Clifford Kippen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3580	3654	74	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	32	—	3	650-63	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	6 3/4	2 3/4		DRILLING STRING	DRILL COLLARS
DATA					118M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
14	MAN	6 45 PM				35M		

Bit Serial No. 826618 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-14/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		900	14"	70	5 3/4
			18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7 30	44	9.2		10.5	Water
9:30	43	9.2			
11:00	42	9.2		10.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	4	4 15	1/4
RUN IN D. COLLARS	4 15	5	3/4
SERVICE Rig & B.O.P	5	5 30	1/2
CUT 67' OFF D. LINE	5 30	6 15	3/4
TRIP IN	6 15	6 45	1/2
DRILLING	6 45	12	5 1/4
			8

Driller [signature]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

Rig Nat-3

DAILY DRILLING REPORT No. 29

Lochiel LSD. H38-67-20-132-15 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor IOE Type Rig NAT 100 Month April Day 7 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3242	3249	57	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	28	1	26	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	110M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	MAN	1 00 am		19		30M	162	

Bit Serial No. 680744 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-1/2"

SURVEYS

MUD PUMP RECORD

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		650	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	45	9.1		10.5	WATER
2:00	45	9.1			
4:00	45	9.1	13	10.5	
6:00	45	9.1			
7:30	45	9.1		10.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	800	8

Driller: [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3277	3340	41	8 3/4"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	28	2	15	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4"	2 3/4"	650.63	110M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	MAN	1 8 PM	10 15 PM	21 1/4	3319	30M	162	
13	MAN	2 00 PM		2.				

Bit Serial No. 680744 - 743537 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 14/32"

SURVEYS

MUD PUMP RECORD

Kind Totco at 3300 Ft. 4 1/4° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4 1/4	1 3/4	900	14"	70	5 3/4
No. 2		1		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	45	9.1	13.2	10.5	WATER
10:00	45	9.2			
2:30	46	9.2		10.5	
3:30	45	9.2			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #12 Condition T4.B4.G1.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8 00	10 15	2 1/4.
Totco at 3300	10 15	10 30	1/4.
Trip out	10 30	11 00	1/2
Working on High Drum clutch	11 00	11 30	1/2.
Trip out	11 30	12 15	3/4.
Service Rig Check B.O.Ps	12 15	12 45	1/2.
Trip in Hole	12 45	2 00	1 1/4.
Drilling	2 00	4 00	2.

Driller: Clifford Hagen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3340	3420	80	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	29	2	26	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4		112.M	56 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
13	MAN	2 PM				35M		

Bit Serial No. 743537 Table R.P.M. 60

Jet or ~~Conventional~~ - JET Nozzle Size 1-13/32 2-14

SURVEYS

MUD PUMP RECORD

Kind TOTCO at 3406 Ft. 3 3/4 Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			900	14"	70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 00	44	9.2		10.5	Water
7 00	43	9.2			
9:00	43	9.2		10.5	
11 00	42	9.2			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4	11	7
TOTCO	11	11 15	1/4
DRILLING	11 15	12	3/4
			8

Driller: W Cogtill

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

LOC. Pine River LSD. 438-67-20-132-15 SEC. ..... TWN. ..... RGE. ..... W. .....

Contractor L.D.E. ..... Type Rig NAT 100 ..... Month March ..... Day 6 ..... 19 67

Rig NAT 3

DAILY DRILLING REPORT No. ~~18~~ 19

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3068	3141	73	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	26	1	2	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	107	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
11	W7	1:15 PM		18 1/2		40	148	

Bit Serial No. 445998 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-1/2"

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		650	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	66	9.3	9.2	10.5	WATER
2:00	62	9.3			
4:00	67	9		10.5	1/2 gal Quick-Vis
6:00	65	9.1			
7:30	64	9.1		10.5	1000# Gel

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12:00	8:00	8

Driller: [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3141	3181	40	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	27	—	23	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	108M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
11	W7	1:15 PM	10:15 AM	20 1/2	3157	35M	164	
12	MAN	1:00 PM				30M		

Bit Serial No. 445998 680744 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 1/2"

Kind Totco at 3130 Ft. 5° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5	2 3/4	650	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:30	65	9.1		10.5	WATER
10:00	65	9.1			PELTEX 50#
2:00	58	9.1			CAUSTIC 50#
					GEL - 300#
					QUICK VIS - 1/4 gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #11 Condition T4 B4 G1					
Checked Kelly Cock.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Totco at 3130	8:00	8:15	1/4
Drilling	8:15	10:15	2
Trip out	10:15	11:45	1 1/2
Service Rig Check B.O.Ps	11:45	12:00	1/4
Trip in Hole.	12:00	1:00	1
Drilling	1:00	4:00	3

Driller: Clifford Wiggan

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3181	3242	61	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	27	2	22	650-63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4		110M	56M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	MAN	1 PM				30M		

Bit Serial No. 680744 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-1/2"

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		650	14"	70	5 3/4
No. 2				16"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	52	9.1		11.5	GEL 200#
6:00	50	9.1			Water
8:00	50	9.1			
11:30	47	9.1		11.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECKED ALL FIRE EXTINGUISHERS O.K.			
DRILLING	4	12	8

Driller: [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

LOC. KREMEL #38-67-20-132-15 LSD..... SEC..... TWN..... RGE..... W..... Contractor LOE Type Rig NAT 100 Month APRIL Day 5 19 67

RIG NAT 3

DAILY DRILLING REPORT No. 18

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH From	To	Hole Made	Hole Size	Formation
2953	2985	32	8 5/8	

DRILLING STRING Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	27	2	26	397.96	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	14	6 3/4	2 3/4	397.96	DRILLING STRING	DRILL COLLARS
DATA					90	

BIT RECORD No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed
10	W7	7 00 PM		12 3/4		25	56	

Bit Serial No. 41432 Table R.P.M. 60

Jet or Conventional - CUT OUT Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7		300	14	70	5 3/4
No. 2	1	7	200	18"	37	5 3/4

MUD RECORD Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	79	8.8	12.6	10.5	5700# Weight
2:00	74	8.8			material
4:00	68	8.9			
6:00	64	8.9			
7:30	60	8.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	8 00	8

Driller [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
2985'	3015	30	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	25	—	9.	650.63.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	6 3/4	2 3/4	650.63	DRILLING STRING	DRILL COLLARS
DATA					106M	56M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed
10	W7	1 00 PM.	10 00 PM	14 3/4.	2993	25M	64.	
11	W7	1 15 PM.						

Bit Serial No. 41432 44598. Table R.P.M. 60

~~Jet or Conventional~~ - Cut out Bit #2 Jet Nozzle Size 1/2"

Kind at Ft. Deg. off

HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 3/4	3 1/4	~~1500~~ 650	14"	70	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	62	8.9		10.5	WT. MATERIAL
10:00	62	9			1200#
2:00	65	9		10.2	CAUSTIC 50#
3:00	60	9.2		11	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #10 Condition T2 B1 G1. Checked Kelly Cock.					

	From	To	Hrs.
Drilling	8 00	10 00	2.
Trip out, Lay down 9 singles	10 00	11 30	1 1/2.
Run in D.Collars	11 30	12 00	1/2.
Service Rig Check B.O.Ps	12 00	12 30	1/2.
Trip in Hole	12 30	1 15	3/4.
Drilling	1 15	4 00	2 3/4

Driller Clifford Hagin

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
3015	3068	53	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	25	2	16	650-63	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	6 3/4	2 3/4		DRILLING STRING	DRILL COLLARS
DATA					106M	56M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed
11	W7	1 15 PM						

Bit Serial No. 44598 Table R.P.M.

Jet or ~~Conventional~~ - JET Nozzle Size 1/2"

Kind TOTCO at 3044 Ft. 4 7/8 Deg. off

HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7 1/2		625	14"	69	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5:00	57	9.2		10.5	
7:30	58	9.2			
9:00	57	9.2			
11:00	59	9.3		11.	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
DRILLING	4	9 45	5 3/4
TOTCO	9 45	10	1/4
DRILLING	10	12	2
			8

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 3S-67-20-132-15

IMPERIAL OIL LIMITED

RIG NAT-3

DAILY DRILLING REPORT No. 16 17

10E TREE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT-100 Month APRIL Day 4 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2929				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	31	1	15		

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
					92 M	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3½	4½	250	14	64	5¾
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7³⁰	130	8.6			2500# GEL
					80 SACKS SAWDUST
					20 SACKS FIBERTEX

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MIXING LOST CIRC. MATERIAL	12⁰⁰		
		3⁰⁰	3
PUMP 90 BBL. DOWN HOLE	3⁰⁰	4⁰⁰	1
REGAINED CIRC. @ 4⁰⁰ AM			
BUILD UP VOLUME. CONDIT.	4⁰⁰		
MUD		6³⁰	2½
CLEAN SAWDUST OUT OF	6³⁰		
PUMPS		8⁰⁰	1½
			8

Driller: Kormanicki

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
2929			8⅝	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½				397.96	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	14	6¾	2¾	397.96		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	W1							

Bit Serial No. 41432 Table R.P.M.

Jet or Conventional - CUT OUT Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3¾	2¾	250	14	64	5¾
				18"		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10⁰⁰	140	8.8			50# CAUSTIC
100	98	8.8		10.5	50# Peltex
1200	98	8.8			400# Wt. Material

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	CHECK KELLY COCK				

	From	To	Hrs.
CONDITION MUD	800	1⁴⁵	5¾
TRIP OUT	1⁴⁵	3⁰⁰	1¼
~~TRIP IN~~ CHECK BOPs - SERVICE RIG	3⁰⁰	3¹⁵	¼
TRIP IN	3¹⁵	400	¾
			8

Driller: [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
2929	2953	24	8⅝"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	27	1	27.	397.96	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	14	6¾	2¾	397.96		
					90M.	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	W1	1⁰⁰ p.m.		4¾.		25.7		

Bit Serial No. 41432 Table R.P.M. 60

~~Jet or Conventional~~ - Cut out Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	4¾		200	14	75	5¾
		6		18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	130	8.6		10.5	WT. MATERIAL - 2200#
10:00	110	8.7		10.5	PEETEX - 100#
11:00	82	8.8			CAUSTIC 50#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Tripin with cut out Bit, Bottom	4⁰⁰	4⁴⁵	¾.
Circulating Mixing sawdust	4⁴⁵		
Replaced weight Indicator		7⁰⁰	2¼.
Drilling	7⁰⁰	11⁰⁰	4.
Repairing E500 Pump.	11⁰⁰	11¹⁵	¼.
Drilling	11¹⁵	12⁰⁰	¾.

Driller: Clifford Kuper

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 38-67-20-132-15

IMPERIAL OIL LIMITED

RIG NAT. 3

DAILY DRILLING REPORT No. 15

10-2 TRAPRINER LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month APRIL Day 3. 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2926	2929	3	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	24	1	24	650.63	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	23	6 3/4	2 3/4	650.63	DRILLING STRING	DRILL COLLARS
	DATA					136M	52M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	YH	5:00 PM	4:00 AM	6 1/2	2929	25	37	
RR 8	MYN	7:00 AM						

Bit Serial No. E23127 Table R.P.M. 60

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	2	6	1600	14"	70	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					100 SACKS SAW DUST
					3900# GEL
					WATER
					KCRYSOL 2 GAL
					FIBERTEX 20

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
PUMPED 50 BBLS MUD					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	12:30	1/2
LOST CIRC. @ 2929, MIXING	12:30		
LOST CIRC. MATERIAL		4:00	3 1/2
TRIP OUT WITH PLUGGED	4:00		
BIT		5:30	1 1/2
TRIP IN CONVENT. BIT	5:30	7:00	1 1/2
MIXING LOST. CIRC. MATER	7:00	8:00	1
			8

Driller: Kormiptone

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2929			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	28	—	31		

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	11				DRILLING STRING	DRILL COLLARS
	DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR 8	MYN							

Bit Serial No. E23127 Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1 1/2		0-200	14	40	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					120# Fibertex
					64 bags of Sawdust
					1 1/4 gal of Quikvis
					3280# GEL.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MIXING LOST CIRC. MATERIAL	8:00	10:45	2 Hrs. 3/4
PULL 4 STANDS - FLUID ON PIPE - 180'	10:45	11:00	1/4
PUMP DOWN 200 BBL. - NO RETURNS	11:00	12:00	1
MIXING LOST CIRC. MATERIAL	12:00	1:15	1 1/4
WORK ON RIG SAVERS &	1:15		
THAWING AIR LINES		3:15	2
PUMP DOWN 20 BBLS - NO RETURNS	3:15	3:45	1/2
TRIP OUT	3:45	4:00	1/4
			8

Driller: Espata

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2929			8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	31	1			

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR					DRILLING STRING	DRILL COLLARS
	DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					WATER
					16 BAGS FIBERTEX
					110 BAGS SAWDUST
					1000# GEL
					1/2 GAL QUIKVIS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out.	4:00	4:30	1/2
Trip in with open end pipe	4:35	5:25	3/4
Mixing lost circulation material	5:15	9:00	3 3/4
Pump down 150 BBls mud 6# from top	9:00	11:00	2
Fill tank with water	11:00		
Clean sawdust out of C-350			
Mixing lost circulating mat.		12:00	1

Driller: Clifford Higgins

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 38-67-20-132-15

IMPERIAL OIL LIMITED

RIG NAT. 3

DAILY DRILLING REPORT No. 14.

10E. TREE RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month APRIL Day 2. 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2860	2890	30	7 13/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar. Ft.	Core Bbl. Ft.
4 1/2	25	2	DOWN	396.33	62.49

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	14	6 3/4	2 3/4	396.33	122	29 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
8	M4N	3:00 PM	12:30 AM	8 1/4	2800	15	45	
2	DIA.	4:25 AM				16M		

Bit Serial No. 29-66 Table R.P.M. 60-88

Jet or Conventional - Nozzle Size

SURVEYS

Kind TOTCO at 2855 Ft. 5 3/4 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3 1/2	4 1/2	1250	14	60	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	44	9.3			WATER.
5:30	44	9.4			
6:30	44	9.4			
7:00	43	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2860	2890	30	30	1	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRC. TO CORE	12:00	12:15	1/4
TOTCO @ 2855	12:15	12:30	1/4
TRIP OUT TO CORE	12:30	2:00	1 1/2
SERVICE RIG, CHECK BOP'S	2:00	2:30	1/2
PICK UP & SERVICE CORE BBL	2:30	3:00	1/2
TRIP IN TO CORE	3:00	4:00	1
CIRC. TO CORE	4:00	4:15	1/4
CORING	4:15	7:30	3 1/4
TRIP OUT	7:30	8:00	1/2

Driller Karmenman 8

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2890	2892	2	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	23	2	7	650.63	REAMER 5.45

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	135	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR 8	M4N	1:15 PM	1:30	1/4	2892	5-15	2	30
9	YH							

Bit Serial No. 659321 - E23127 Table R.P.M. 88-60

Jet or Conventional - JET Nozzle Size 3-11/32

Kind TOTCO at 2890 Ft. 5 1/4° Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	2 1/2	5 1/2	1600	14	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	43	9.4			WATER.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	8:00	9:00	1
RECOVER CORE	9:00	9:30	1/2
SET BACK CORE BBL.	9:30	9:45	1/4
SERVICE RIG - CHECK BOPS	9:45	10:00	1/4
PICK UP REAMER - TRIP IN	10:00	11:00	1
REAM 7 13/16 TO 8 5/8	11:00	1:15	2 1/4
DRILLING	1:15	1:30	1/4
TOTCO	1:30	1:45	1/4
TRIP OUT	1:45	3:15	1 1/2
TRIP IN	3:15	4:00	3/4

Driller Fitzpatrick 8

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2892	2926	34	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	24	1	27	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	136M	52.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	YH	5:00 PM.		6 1/4.		20-25		

Bit Serial No. E23127 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 5/32

Kind Totco at 2920 Ft. 5 1/4° Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	6	3/4	1650	14"	70	5 3/4
No. 2	1	1	1200	18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6:00	42	9.3		10.5	WATER
8:00	42	9.3			GEL - 100#
10:00	40	9.3			QUIKVIS - 1/2 GAL

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in	4:00	4:45	3/4.
Repair Pop Valve.	4:45	5:00	1/4.
Drilling	5:00	7:15	2 1/4.
Change Packing Clean out oil sump E500	7:15	7:30	1/4.
Drilling	7:30	10:30	3.
Totco at 2920'	10:30	11:00	1/2.
Drilling	11:00	11:45	3/4.
Repairing E500 Pump	11:45	12:00	1/4

Driller Clifford Kiggan

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher Hockey Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 38-67-20-132-15

IMPERIAL OIL LIMITED

RIG NAT. 3

DAILY DRILLING REPORT No. 13

10E. IRAE RIVER LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. .....

Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month APRIL Day 1. 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2765	2788	33	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	22	2	10	654.16	REAMER 5.45

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	654.16	132 M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
7	M4N	3:15 PM				15		

Bit Serial No. 826566 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3 11/32

SURVEYS

Kind TOTCO at 2770 Ft. 5 3/4 Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		1600	14"	70	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	39	9.3			WATER
2:00	42	9.3+	9.2	10.5	1/4 GAL ACRYSOL
4:00	42	9.3+			500# GEL
7:00	42	9.4			
7:30	42	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	2:30	2 1/2
THAW FROZEN AIRLINES	2:30		
+ AIR RELEASE CONTROLS		3:30	1
TOTCO @ 2770	3:30	4:00	1/2
DRILLING	4:00	8:00	4
			8

Driller Kormeman

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2768	2819	21	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	23	—	14	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	135 M	52.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
7	M4N	3:15	10:45 AM	18	2815	15	106	1m3
8	M4N	3:00 PM						

Bit Serial No. 826566 — 659381 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-11/32

SURVEYS

Kind TOTCO at 2815 Ft. 6° Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3 1/4	4 1/4	1650	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	42	9.4	9.6	10.5	50# Peltex
10:00	42	9.4			50# Caustic
3:30	44	9.4			WATER.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8:00	10:45	2 3/4
TOTCO	10:45	11:00	1/4
TRIP OUT	11:00	12:30	1 1/2
SERVICE RIG - CHECK BOPS	12:30	1:00	1/2
LAY DOWN REAMER - MEASURE D/C	1:00		
WALK ON INDICATOR		1:30	1/2
TRIP IN	1:30	3:00	1 1/2
DRILLING	3:00	4:00	1
			8

Driller [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2819	2860	41	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	23	1	4	650.63	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	650.63	134 M.	52.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
8	M4N	3:00 PM	11:15 PM	8 1/4	2860	15 M.	45	

Bit Serial No. 659381 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 11/32

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7		1600	14"	70	5 3/4
No. 2	1	1	1300	18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	42	9.4	9.4	11	QUICK-VIS - 1/2 GAL
7:30	42	9.4			GEL - 1000#
10:00	40	9.3			WATER
11:00	43	9.3			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4:00	11:15	7 1/4.
Circulating to Core	11:15	12:00	3/4.

Driller Clifford Kuppen

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY 12:30 YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 12

10E. TREE RIVER LSD..... SEC..... TWN..... RGE..... W.....

Contractor IMP. OIL ENTERPR. Rig NAT. 3 Type Rig NAT. 100 Month MARCH Day 31 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2652	2709	27	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	21	2	9 1.	1660.55	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	10	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	132 M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR 6	M4N	3:15 PM	5:00 PM	15 3/4	2709	15	43	30
7	M4N							

Bit Serial No. 680610 - 826566 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3 - 11/32

SURVEYS

Kind TOTCO at 2705 Ft. 5 7/8 Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5	3	1550	14"	68	5 3/4
No. 2						

MUD RECORD

	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	44	9.2		10	
3:30	43	9.3			
4:30	43	9.3			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDIT. BIT # 6 T5-B4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 PM	5:00	5
TOTCO	5:00	5:15	1/4
TRIP OUT	5:15	6:45	1 1/2
LAY DOWN BIT. DC. PICK UP SQUARE DC.	6:45	7:15	1/2
SERVICE RIG CHECK BOPS	7:15	7:30	1/4
TRIP IN	7:30	8:00	1/2
			8

Driller Kormomcin

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2709	2712	3	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	21	2	6	~~654.16~~ ~~625.56~~	REAMER 5.45

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	23	6 3/4	2 3/4	~~654.16~~ ~~625.56~~	DRILLING STRING	DRILL COLLARS
	DATA					130	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
7	M4N	3:15 PM				15		

Bit Serial No. 826566 Table R.P.M. 88

Jet or Conventional - JET Nozzle Size 3 - 11/32

SURVEYS

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3	5	1650	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3:30	43	9.4			WATER

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	8:00	9:00	1
PICK UP 3 SINGLES & ~~REAM~~ STUCK COLLAR.	9:00	10:00	1
TRIP OUT TO LAY DOWN 17 COLLARS	10:00	11:30	1 1/2
LAY DOWN 17 D/C. - PICK UP 6 3/4 D/C. & REAMER	11:30	12:30	1
TRIP IN	12:30	2:00	1 1/2
REAMING FROM 2606' TO 2709'	2:00	3:15	1 1/4
DRILLING	3:15	4:00	3/4
			8

Driller [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2712	2765'	53	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	22	1	14.	654.16.	Reamer 5.45.

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	23	6 3/4"	2 3/4"	654.16	DRILLING STRING	DRILL COLLARS
	DATA					132 M.	52 M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
7	M4N	3 12 PM		8 3/4		15 M		

Bit Serial No. 826566 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 11/32

SURVEYS

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		1650	14"	70	5 3/4
No. 2		1		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	43	9.4	10.8	9.5	WATER
6:00	45	9.4			GEL - 500#
8:00	45	9.4	CLEANED		ARYSOL - 1/4 Gal.
10:00	43	9.4	No 2	TANK	PELTEX - 50#
11:30	40	9.4			CAUSTIC - 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4 AM	12 AM	8.

Driller Clifford H. [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 11

LOC. H 38-67-20-132-15
TIBER RIVER LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENT. RIG. NAT. 3 Type Rig NAT. 100 Month MARCH Day 30. 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2606	2629	23	7 13/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	24	—	30	308.07	62.49

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	11	6 3/4	2 3/4	308.07	110 M	26 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	DIA.	4 15 AM				18		

Bit Serial No. 29-66 Table R.P.M. 64-88
Jet or Conventional - DIAMOND Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4		1350	18	50	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	44	9.2			
6:00	44	9.2		9.5	
7:30	42	9.3			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2606	2629	23		1	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT TO CORE - MEASURE	12 00	1 00	1
LAY DOWN SQUARE DC. PICK UP BOTTOM DC.	1 00	1 45	3/4
PICK UP + SERVICE CORE BBL	1 45	2 30	3/4
TRIP IN TO CORE	2 30	4 00	1 1/2
CIRC. TO CORE	4 00	4 15	1/4
CORING	4 15	8 00	3 3/4
			8

Driller Kormeman

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2629	2639	10	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	21	—	14	654.16	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	23	6 3/4	2 3/4	654.16	130 AM	52 AM

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	DIA	4 15 AM	2 30	4 1/4	2636	18	30	
RR 6	M4N5	3 15 PM	8 00					30

Bit Serial No. 29-66 - 680610 Table R.P.M. 88
Jet or Conventional - DIA - JET Nozzle Size 3 1/32
Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3	4 1/2	1550	14"	70	5 3/4
No. 2	1/2		1350	18"	50	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	42	9.3			
2:00	41	9.5		9.5	
3:30	41	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2629	2636	30'	30'	1	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CORING	8 00	8 30	1/2
PULL CORE	8 30	10 00	1 1/2
RECOVER CORE	10 00	10 45	3/4
SET BACK CORE BBL.	10 45	11 00	1/4
SERVICE RIG - CHECK BOPS	11 00	11 30	1/2
TRIP IN	11 30	1 00	1 1/2
REAM 7 13/16 TO 8 5/8"	1 00	3 15	2 1/4
DRILLING	3 15	4 00	3/4
			8

Driller Fitzpatrick

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2639	2682	43	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	21	2	30	654.16	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	23	6 3/4"	2 3/4"	654.16		52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR 6	M4N	8 15 AM				10-15		

Bit Serial No: 68 0610 Table R.P.M. 88-60
Jet or ~~Conventional~~ - Nozzle Size 3 11/32
Kind Totco at 2643 Ft. 5 3/4° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7 1/4		1550	14"	70	5 3/4
No. 2		1		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	41	9.3	8.8	9.5	WATER
6:00	41	9.4			GEL 500#
8:00	40	9.4	9.2	9.5	PELTEX - 25#
10:00	43	9.4		10	CAUSTIC - 50#
11:30	43	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4 00	6 30	2 1/2
Totco at 2643' (sandline)	6 30	8 00	1/2
Drilling	8 00	11 45	3 3/4
Totco at 2673 5 3/4°	11 45	12 00	1/4

Driller Clifford Keppen

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY? YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher Lockey Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. H 38-67-20-132-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 10

TREE RIVER LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor IDE. NAT. III Type Rig NAT. 100 Month MARCH Day 29 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2462	2513	51	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	19	2	30	658.90	REAMER 5.45

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	10	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	131 M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
5	YH	3:00 AM				15		

Bit Serial No. E 23127 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

SURVEYS

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5	3	1550	14"	70	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3:30	47	9.1		9.5	1/4 Gal Acrysol
5:00	40	9.1			
6:00	40	9.1			
7:30	40	9.1		9.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDIT. BIT # 4 T6-B4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIPPING	12:00	3:00	3
DRILLING	3:00	8:00	5
			8

Driller Kormoran

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2513	2590	77	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	20	1	13	658.90	REAMER 5.45

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	10	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	132	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
5	YH	3:00 AM	2:30 PM	[redacted]	2590	15-20	128	
				11				

Bit Serial No. E 23127 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3 11/32

Kind TOTCO at 2590 Ft. 5 1/2° Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	6 3/4	1 1/4	1550	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	39	9.2	17	9.5	500# GEL
10:00	45	9.2			50# CMC.
12:00	44	9.2	12		
2:00	44	9.2.			
		1500# GEL WASTE			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8:00	9:15	1 1/4
CIRC. SAMPLE FOR GEO.	9:15	9:45	1/2
DRILLING	9:45	2:30	4 3/4
TOTCO	2:30	2:45	1/4
TRIPPING	2:45	4:00	1 1/4

Driller [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2590	2606	16.	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	20	2	27	658.90	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	10	8 9/16"	2 1/4"	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4"	2 3/4"	628.86	132 M	52 M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
6	M4N	6:30 PM	10:15 PM	3 3/4	2606	10-12.		

Bit Serial No. 680610 Table R.P.M. 90.

Jet or ~~Conventional~~ - Nozzle Size 3 11/32

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4 1/2	3 1/4	1550	14"	68	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6:30	48	9.3	10.8	9.5	PELTEX 25#
8:00	47	9.3			CAUSTIC 50#
10:00	45	9.3			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 6 Condition T3 B2G1.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out.	4:00	4:30	1/2.
Run in D.C.	4:30	5:00	1/2
Service Rig Check B.O.Ps.	5:00	5:30	1/2.
Trip in	5:30	6:15	3/4
Repairing Pulsator on E 100	6:15	6:30	1/4
Drilling	6:30	10:15	3 3/4.
Circulating to Core	10:15	11:00	3/4.
Trip out to Core	11:00	12:00	1

Driller Clifford Kuppen

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'N-132°-15'W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 9

DETREE RIVER SD. H-38 SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 28 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2366	—	—	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	18	—	26	658.90	REAMER 5.45

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	150	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
DATA	22	6 3/4	2 3/4	628.86		52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
4	T2							

Bit Serial No. 59020 Table R.P.M.

Jet or Conventional - JET Nozzle Size 3/11

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:00	43	8.9			
3:00	44	8.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRCULATE			
WAIT ON WT. MATERIAL	12	5:30	5 1/2
TRIP OUT	5:30	6:30	1
CHANGE BIT - CHECK B.O.P	6:30	6:45	1/4
TRIP IN	6:45	8	1 1/4

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2366	2462	96	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	19	—	21	658.90	REAMER 5.45

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1 ☐	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
DATA	22	6 3/4	2 3/4	628.86	130 M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
4	T2	8:30 AM				20-25		

Bit Serial No. 59020 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7 1/2	1/2	1600	14	70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:00	52	8.8			WATER
10:00	48	8.8			100# CAUSTIC
11:00	44	8.8	20		
1:00	43	8.9			
3:30	42	8.9		9.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	8:00	8:30	1/2
DRILLING	8:30	4:00	7 1/2
			8

Driller Kormeman

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2462			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	19	—	21	658.90	REAMER 5.45

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1 ☐	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
DATA	22	6 3/4	2 3/4	628.86	130 M	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
4	T2	8:30 AM	11:30 AM	7 1/2	2462		96	

Bit Serial No. 59020 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3 1/32

Kind TOTCO at 2462 Ft. 4 3/4° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7 1/4	3/4	1600	14	70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	42	8.9	20.6	9.5	400# GEL.
6:00	40	8.9			3000# SPARTON
8:00	40	8.9			
10:00	38	8.9			
11:00	39	9.1			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRC. WITH DULL BIT WAITING	4:00		
ON WT. MATERIAL		8:15	4 1/4
CIRC. MIX WT. MATERIAL	8:15	11:15	3
TOTCO	11:15	11:30	1/4
TRIPPING	11:30	12:00	1/2

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20' N-132°-15' W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 9

I.O.E. TREE RIVER RD. H-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 27 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2110	2305	195	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	17	1	24	658-90	REAMER 5-45

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 SQ	8 9/16	2 1/4	30-04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	124M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	M4L	2 AM				35-40		

Bit Serial No. 74717 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-11/32

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1600	14"	69	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 1000#
3:00	35	8.8		9.	ACRYSOL ½ GAL
5:00	34	8.8			
7:00	35	8.8		9.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12	1	1
REAM TO BOTTOM	1	1 45	3/4
REPAIR STAND PIPE UNION	1 45	2	1/4
DRILLING	2	8	6
			8

Driller M. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
2305	2366	61	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	18	—	26	658.70	REAMER 5.45

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 D	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	130M	52 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	M4L	2 PM	11 30	8 3/4	2366	35	256	

Bit Serial No. 74717 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

Kind Totco at 2330 Ft. 40 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			14	65	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	37	8.8			Water
10:00	36	8.8		9.0	50 lbs caustic soda
					45.00 lbs wall plug
					1000 lbs gel

Reamed on hole March 26 67.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
DRILLING	8:00	9 45	1 3/4
REPAIR SAND LINE	9 45	10:00	1/4
TOTCO @ 2330	10:00	10 30	1/2
DRILLING	10 30	11 30	1
Pulling out of hole	11 30	12 30	1
Well started to blow.	12 30	4:00	3 1/2
Shut in a bled gas off			8
to flare line. pressure bled off			
to zero. Started back in hole using			
Hydril & stripper			

Driller Kornerman

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
2366			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	18	1			

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 E	8 9/16			DRILLING STRING	DRILL COLLARS
	DATA	6	6 3/4				

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 1/2		400	14	34	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7:00	47	9			1/2 GAL ACRYSOL
10:00	47	9.			
					1000# GEL
11:30	43	8.9			½ GAL ACRYSOL
					WATER.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RUN 1 D/C 210' 5 STANDS D/P 1 SINGLE 4800	400	430	1/2
MAKE UP CIRC. LINE	430	500	1/2
CIRC. OUT GAS 400 PSI BACK PRESS.	500	730	2 1/2
TIGHTEN BLOW DOWN LINE - SHAKER.			
CIRC 9.2 RETURNS 9.0#	730		
WAITING ON INT. MISTELLIE		945	2 1/4
RUN IN 13 STANDS - CIRC @ 1860	10:5		
WITH 400 PSI BACK PRESS		1200	1 3/4
			8

Driller J. Botero.

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher A. Bennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'N-132°-15'W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 8

I.O.E TREE RIVER H-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E NAT 3 Type Rig NAT 100 Month MARCH Day 26 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
1616	1706	90	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	11	—	28	658.90	REAMER 5.45

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
	1 SQ	8 9/16		30.04		
	22	6 3/4	2 3/4	628.86	118M	52M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	YTIA	6 AM	1 15 AM	18 1/4	1654	30M	1014	
2	YTIA	6 15 AM						

Bit Serial No. E74084 – E74085 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-11/32

SURVEYS

Kind TOTCO at 1637 Ft. 2 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1600	14	70	5 3/4
No. 2				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	37	8.8		9.	CMC 50#
7:00	36	8.8			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT #1 T4-B5-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECK KELLY COCK			
DRILLING	12	1 15	1 1/4
CIRCULATE & TOTCO	1 15	1 30	1/4
TRIP OUT	1 30	2 45	1 1/4
SERVICE RIG & B.O.P	2 45	3 15	1/2
REPAIR 4" CAMERON VALVE	3 15	4 15	1
TRIP IN	4 15	5 30	1 1/4
FILL PIPE & CLEAN OUT 15'	5 30	6	1/2
REPAIR STAND PIPE UNION	6	6 15	1/4
DRILLING	6 15	8 00	1 3/4

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
1706	2026	320	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	14	1	21	658.90	REAMER 5.45

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
	1 D	8 9/16	2 1/4	30.04		
	22	6 3/4	2 3/4	628.86	122M	52M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	YTIA	6 15 PM				30-35		

Bit Serial No. E74085 Table R.P.M. 60-90

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
				14	70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	36	8.8			water
10 00	35	8.7		9.0	1000 lbs GELL
12 00	37	8.8			50 lbs CMC
2 00	35	8.8			50 lbs caustic soda
					1/2 GAL ACRYSOL

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8 00	4 00	8

Driller Kermoman

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
2026	2110	84	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	15	—	K.D.	658.90	REAMER 5.45

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
	1 D	8 9/16	2 1/4	30.04		
	22	6 3/4	2 3/4	628.86	124M	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	YTIA	6 15 AM	8 00 AM	13 3/4	2110	25-30	456	
3	M4L							

Bit Serial No. E74085 – 74417 Table R.P.M. 60-90

Jet or Conventional - JET Nozzle Size 3 11/32

Kind Totco at 2110 Ft. 30 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	4	4	1600	17	70	5 3/4
		8		16		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	35	8.9	12.4	9	WATER
6:00	34	8.8			
8:00	34	8.8			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #2		T5	B8	G0 1/2	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4 00	8 00	4
TOTCO	8 00	8 15	1/4
TRIP OUT	8 15	10 00	1 3/4
SERVICE RIG - CHECK B.O.P'S	10 00	10 30	1/2
CHANGE PRESS RING STAND PIPE UNION	10 30		
CHECK ROTARY TORQUE		11 30	1
TRIP IN	11 30	12 00	1/2
			8

Driller [illegible]

HEADING UP & DRLG. OUT: DRILLING: REAMING:

CLASSES OF TIME BREAKDOWN: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67° – 20' N – 132° – 15' W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 4

I.O.E. TREE RIVER LSD. H-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 25 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640	827	187	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	1	1	DOWN	658.90	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 SQ	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86		52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	YTIA	6 AM				25 M		

Bit Serial No. E74084 Table R.P.M.

Jet or Conventional - JET Nozzle Size 3-11/32

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1500	14"	86	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					GEL 1000#
600	28	8.4			ACRYSOL ½ gal
730	31	8.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

CHECK KELLY COCK

	From	To	Hrs.
PRESSURE TEST FORMATION TO 500 PSI. OK	12		
DRILLED 30' NEW HOLE		1 30	1½
PULL OUT PICKED UP 1 SQUARE & 16 – 6¾ D. COLLORS	1 30		3½
WORK ON WT. INDICATOR	5	5 30	½
SERVICE RIG	5 30	6	½
DRILLING	6	8	2
			8

Driller W. Cogill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
827	1259	432	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	6	–	DOWN	658.90	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 □	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	110 M	52 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	YTIA	6 AM				25-30		

Bit Serial No. E74084 Table R.P.M. 95

~~Jet or Conventional~~ - Nozzle Size 3-11/32

Kind Totco at 1100 Ft. 1½° Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7½	2.70	1600	14	70	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
800	33	8.4			Water
10	35	8.4		9.0	100 lbs Sodaash
1200	40	8.5			50 lbs. Caustic Soda
200	38	8.6			1000 lbs. GEL
					½ GAL Acrysol

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	800	1 30	5½
CIRC & TOTCO	1 30	2 00	½
DRILLING	2 00	4 00	2
			8

Driller Kormeniow

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
1259	1616	357	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	10	–	21	658.90	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1 □	8 9/16	2 1/4	30.04	DRILLING STRING	DRILL COLLARS
	DATA	22	6 3/4	2 3/4	628.86	118	52

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	YTIA	6 AM				30 M		

Bit Serial No. E74084 Table R.P.M. 95-60

Jet or Conventional - JET Nozzle Size

Kind TOTCO at 1600 Ft. 1¾° Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8	/	1600	14"	70	5¾
No. 2				18"		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	38	8.9		9.5	WATER
6:00	33	9.2			1000# GEL
8:00	34	8.8			½ gal Acrysol
10:00	34	8.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	400	1100	7
CIRC & TOTCO	1100	1130	½
DRILLING	1130	1200	½
			8

Driller Zebatinel

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING-CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'N-132°-15'W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 6

I.O.E. TREE RIVER SD. H-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. NAT 3 Type Rig NAT 100 Month MARCH Day 24 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W. O. C.	12	8	8
PUT GRAVEL AROUND CASING			
BACK OFF LANDING JT.			
CUT OFF COLLAR			

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
HEADING UP	8.00	4.00	8

Driller Kornewan

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	4	1	20	199.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	7	6 3/4		199.51	DRILLING STRING	DRILL COLLARS
DATA					74	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1 3/4	4 1/8	850	14	57	5 7/8
No. 2				16		5 7/8

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
PRESS TEST 1000 PSI Hydrilla gulf [illegible] mud lines.					OK

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
HEAD UP	4.00	7.00	3
PICK UP BOTT. D/C.	7.00		
TRIP IN (MEASURE)		9.15	2 1/4
CIRC OU - HEAVY MUD	9.15	9.30	1/4
WORK ON G700	9.30	10.00	1/2
PRESS TEST CASING	10.00	10.15	1/4
DRILL OUT FLOAT & SHOE	10.15	12.00	1 3/4
			8

Driller G. Patrick

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'N-132°-15' W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 5

I.O.E. TREE RIVER SD. H-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 23 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640			12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	4	1	21	224-29	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	1	9		28.65	DRILLING STRING	DRILL COLLARS
	DATA	6	6¾	2¾	1951.64	76 M	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
RR 3A	K2P	CLEAN OUT						

Bit Serial No. 29877 Table R.P.M.

Jet or Conventional - JET Nozzle Size 3 13/32

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	Dap	14	joints		606.61 of 9⅝ o.d.
9⅝	N80	LT&C			40.0 casing
	Baker	Float	shoe.		
	landed	at	622.01	K.B.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CONDITION MUD	12	12⁴⁵	¾
TRIP OUT	12⁴⁵	2	1¼
RUN 9⅝ CASING	2	6³⁰	4½
CIRCULATE CASING	6³⁰	8	1½

Driller W. Coghill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR					DRILLING STRING	DRILL COLLARS
	DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
		Cemented	w/375	sacks	
plus	4%	Calcium	chloride		
	26	Bbls	water.		
Plug	down	at	9.45	AM.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CEMENTING	8	9⁴⁵	1¾
W.O.C.	9⁴⁵	4	6¼
CLEANING UP			

Driller K. Kraemer

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR					DRILLING STRING	DRILL COLLARS
	DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C			
HOOK UP BOP LINES	4⁰⁰		
CHANGE G700 TO 5¾			
TEAR OUT FLOOR - BREAK			
ROTARY RIGGING			
BUILD RAMP TO CELLAR		12⁰⁰	8
to fill with gravel			

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'N-132°-15' W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 4

I.O.E. TREE RIVER SD H-38 SEC..... TWN..... RGE..... W..... Contractor I.O.E NAT #3 Type Rig NAT 100 Month MARCH Day 22 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
625	640	19	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	4	1	21	224-29	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	7"	2¼	195.64	74M	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3A	K2P	5:30 AM	1:30 PM	15½	640	15M	228	

Bit Serial No. 29877 Table R.P.M. 90

Jet or Conventional - JET Nozzle Size 3-13/32

SURVEYS

Kind TOTCO at 630 Ft. 1¼ Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	90				GEL 1000+
					ACRYSOL ½ Gal

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	1:30	1½
CIRCULATE-CLEAN HOLE.	1:30	2:15	¾
WORK ON SHALE SHAKER	2:15	2:45	½
TOTCO @ 630	2:45	3:00	¼
Pulled out. Tight hole	3:00	6:30	3½
Hard down Conductor pipe	6:30	7:30	1
Service r.g	7:30	8:00	½

Driller M. Cogill

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640			12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	4	1	21	224.29	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	7"				

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					½ Gal Acrysol
					400 lbs gel

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN. CLEAN 25' TO BOTTOM	8:00	9:45	1¾
CIRCULATE TO RUN CASING	9:45	10:45	1
TRIP OUT	10:45	12:00	1¼
LAY DOWN 9" COLLAR + SUBS	12:00	12:45	¾
RIG UP TO RUN CASING	12:45	1:15	½
RUN 13 JTS. 9 5/8 CASING	1:15	3:30	2¼
HOLE TIGHT, RIG UP TO CIRCULATE CASING	3:30	4:00	½

Driller Romanuk 8

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
640			12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	4	1	21	224.29	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	7"		195.64	76	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
R.R. 3A	K-2P	9:30 AM						

Bit Serial No. 29877 Table R.P.M.

Jet or Conventional - JET Nozzle Size 3-13/32

Kind at Ft. Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7½		1100	14	37	7½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	47				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DULL & SET BACK 4 STANDS OF CASING	4:00	7:00	3
PICK UP 9" D/C	7:00	8:00	1
TRIP IN TO CLEAN OUT	8:00	9:30	1½
DRILLING ON BOULDERS @ 620'	9:30	10:45	1¼
TAKE OFF SHAKER SCREEN	10:45	11:00	¼
CIRC. HOLE CLEAN	11:00	11:45	¾
BRING VISCOSITY UP TO 100	11:45	12:00	¼

Driller J. Bofard 8

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20N-132°15'W.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 3

T.OF.Tree River LSD..... SEC..... TWN..... RGE..... W..... Contractor T.O.F. Type Rig Nation #3 Month March Day 21 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
413	448	35	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	2	1	26	224.29.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	6¾"	2¾"	195.64		

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3A	K2P	5 30 AM				16-18.		

Bit Serial No. 29877 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 13/32

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			850	14		7¼
No. 2			400	18		6¼

MUD RECORD

Time	Visc.	Wt	W L	pH	ADDITIVES — POUNDS
1:00	60				ACRYSOL ½ GAL
1:30	90				1600# GEL
					WATER

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Replacing jet nozzle, 1¼" Tee. 1¼" nipple 2 2" nipples	12 00	12 45	¾.
Cleaning out 96' gravel	12 45	1 15	½.
Replacing jet discharge line	1 15		
changed pump packing		2 00	¾.
Cleaning out Hole	2 00	4 30	2½.
Repairing jet change pump packing	4 30	5 15	¾.
Cleaning out Hole	5 15	5 30	¾.
Drilling	5 30	6 30	1.
Repairing Jet line	6 30	7 30	1
Drilling	7 30	8 00	½

Driller Clifford Nippan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
448	563	115	12¼	GRAVEL & SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	3	1	5	224-29	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	6¾	2¾	195.64	72M	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3A	K2P	5 30 AM				15-20		

Bit Serial No. 29877 Table R.P.M. 60-90

Jet or Conventional - Nozzle Size 3 13/32

Kind TOTCO at 440 Ft. ½° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			550	14	38	7¼
			350	18	28	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	90				Water
10 00	95				
12 00	130				
2 00	95				
61' 13 3/8 Casing used for Conductor pipe. Not previously recorded. H.B.					

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
REPAIR JET LINE	8	8 45	¾
DRILLING	8 45	10 45	2
TOTCO @ 440 ½°	10 45	11	¼
DRILLING	11	12	1
REPAIR JET LINE	12	1	1
DRILLING	1	4	3

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
563	625	62	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	4	—	6	224.29	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	6	6¾	2¾	195.64	74	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3A	K2P	5 30 AM				10-12		

Bit Serial No. 29877 Table R.P.M. 100

Jet ~~or Conventional~~ - Nozzle Size 3 13/32

Kind Totco at 540 Ft. 1° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6		100	14	40	7¼
	6		300	18	28	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	95				Water
6 00	105				600 lbs Gell
8 00	90				
10	95				

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
TOTCO	4 00	4 15	¼
DRILLING	4 15	5 15	1
REPAIR CELLAR JET	5 15	6 00	¾
DRILLING	6 00	7 00	1
REPAIR ROTARY CHAIN	7 00	7 30	½
DRILLING	7 30	12 00	4½
			8

Driller Kodmontak

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher G. Bennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

I.O.E. Tree River LSD 67 SEC. 20 TWN. 132 RGE. ..... W. 15 Contractor I.O.E. Type Rig Mat 100 #3 Month March Day 20 19 67

DAILY DRILLING REPORT No. 2

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
228	288	60	12¼	Gravel

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"		1	1	224.29.	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	9"		28.65		
	6	6¾"	2¾"	195.64		

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2A	VSI	11¹⁵ pm				10 1M.		

Bit Serial No. E14259. Table R.P.M. 60.

Jet or ~~Conventional~~ - Nozzle Size 3-13

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4¾		800	14"	51	7¼
No. 2	4¾		450	18"	52	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:30	39				16 gal ACRYSOL
4:00	50				GEL 1600#
6:00	55				
7:30	63				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Clean out Hole. (to bottom)	12:00	1:00	1
Drilling	1:00	2:00	1
Repair Jet line (washed out)	2:00	3:00	1
Drilling.	3:00	4:15	1¼
Repair Jet line (Washed out)	4:15	6:00	1¾
Drilling	6:00	7:30	1½
Repairing Jet line.	7:30	8:00	½

Driller Clifford Kuggin

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
288	393	105	12¼	GRAVEL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	1	2	20	224-29	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	9"		28.65		
	6	6¾	2¾	195.64	70	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2A	VSI	11¹⁵ pm				10-15M		

Bit Serial No. E 14259 Table R.P.M. 70-90

Jet or ~~Conventional~~ - JET Nozzle Size 3-13

Kind TOTCO at 240 340 Ft. ½ ½ Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			750	14"	50	7¼
			400	18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:30	62				
10:30	48				
12:00	52				
2:00	55				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REPAIR JET LINE	8	8:45	¾
DRILLING	8:45	9	¼
TOTCO @ 240' ½°	9	9:15	¼
DRILLING	9:15	1:15	4
REPAIR JET LINE	1:15	2	¾
DRILLING	2	2:30	½
TOTCO @ 340'	2:30	2:45	¼
DRILLING	2:45	4	1¼
			8

Driller W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
393	413	20	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	1	2	DOWN	224.29	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	9"		28.65		
	6	6¾	2¾		72	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2A	43-1	11:15	5PM	11½	412	8-15	184	
3A	K20							

Bit Serial No. E 14259 - 29877 Table R.P.M. 60-90

Jet ~~or Conventional~~ - Nozzle Size 3-13

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5		950	14	70	7¼
	5			18		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	55				2000 lbs GELL
					1 GAL Acrysol
8:00	45				water
11:00	65				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
5.1	2A	1.6	5.4.	6-1.	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4:00	5:00	1
WORK STUCK PIPE, TRIP	5:00		
OUT THROUGH GRAVEL		8:30	3½
JACK UP SHALE SHAKER +	8:30		
MUD DITCH		9:30	1
TRIP IN HOLE, WORKING	9:30		
TO BOTTOM		11:00	1½
REPAIR CELLAR JET	11:00	12:00	1
			8

Driller Kennemeen

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 67°-20'-132°-15'

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 1

Kee River LSD 4-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor T.O.E. Type Rig Nat #3 Month March Day 19 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
0	90	90	12¼	Ice Clays Gravel

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
					subs 10.45

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		25.65	DRILLING STRING	DRILL COLLARS
DATA	1	6¾"				

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	K2P	5AM						

Bit Serial No. 29896 Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3	5	1100	14	60	7¼
No. 2		7		18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6:00	36				
8:00	35				25 sacks Bavoid weight around conductor pipe.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Spudded in 5 AM.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Rigging up + Digging mouse hole	12	5	5
Drilling	5	8	3

Driller: Alfred Tipson

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
90	170	80	12¼	Gravel

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			30	129.87	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"			DRILLING STRING	DRILL COLLARS
DATA	4	6¾	2¾			58M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	K2P	5AM.				10M		

Bit Serial No. 29896 Jet. Table R.P.M.

Jet or Conventional - Jet. Nozzle Size 3/12

Kind Totco at 90 Ft. 7/80 Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2pm	60				2400 LBS. GEL.
3pm	52				½ GAL. AKROSOL.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8	9	1
REPAIR JET - CLEAN OUT GRAVEL	9	10¹⁵	1¼
DRILLING	10¹⁵	11³⁰	1¼
TOTCO	11³⁰	11⁴⁵	¼
DRILLING	11⁴⁵	1	1¼
CHANGE 4" UNION ON MUD LINE	1	2⁴⁵	1¾
DRILLING	2⁴⁵	3¹⁵	½
REPAIR JET LINE	3¹⁵	4	¾

Driller: W. Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
170	228	58	12¼	GRAVEL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
				196.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	1	9"		28.65	DRILLING STRING	DRILL COLLARS
DATA	5	6¾	2¾	167.36	69M	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1A	K2P	5AM	5PM	12	228	5-10	228	
2A	4S-1	11¹⁵						

Bit Serial No. 29896 — E 14259. Table R.P.M. 3-13

Jet or Conventional - Jet - Jet Nozzle Size 3/14

Kind Totco at 150' Ft. ½ Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7		1000	14	60	7¼
	7		500	18		

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	70				800 lbs GELL
10	80				½ GAL Acrysol

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit	6-	6-1			

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4:00	6¹⁵	2¼
TOTCO	6¹⁵	6³⁰	¼
DRILLING	6³⁰	8:00	1½
REPAIR CELLAR JET	8:00	9³⁰	1½
Drilling	9	10	1
TRIPPING	10	11¹⁵	1¼
DRILLING	11¹⁵	12:00	¾
			8

Driller: Kosmerman

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher G. Dameron Approved by .....

F.O.E.

Form 34402 (300 bks -10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. .....

Three Rivers LSD 11-38 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor F.O.E. Type Rig Nad. #3 Month March Day 15 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
			12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	9"		28.65		

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	K2P							

Bit Serial No. 29896J Table R.P.M.

Jet or ~~Conventional~~ - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	60			½	25 sacks gel. ½ gal Acrysol.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Rigging up Rat Hole equipment etc	12:00	2:30	2½
Drilling Rat Hole.	2:30	4:00	1½
Picking up Rat Hole, laying down Rat Hole digger	4:00	4:30	½
Drilling Conductor Pipe Hole	4:30		
Picking up 9" Collar		5:00	3½
Drilling 12¼ Hole			

Driller: Clifford Higgen

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	K2P							

Bit Serial No. 29896-J Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4	60				65 sacks Cement. Conductor pipe

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING 12¼ CONDUCTOR HOLE	8	10	2
REAMING 12¼ TO 17½	10	1	3
RUN 3 JTS 13⅜ CONDUCTOR	1	2:30	1½
CIRCULATE & PREPARE TO RUN CEMENT	2:30	4	1½
			8

Driller: [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CEMENTING CONDUCT. PIPE	4:00	5:00	1
FINISH RIGGING UP	5:00		
JACKING DERRICK		12:00	7
			8

Driller: Kennemem

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W. O. ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher [illegible] Approved by .....

I.O.E.
Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. .....

Lease Name LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Nat #2 Month March Day 17 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller [illegible]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Tubing on tools			
on bottom			
1 stand on and long			
with stands and			
replace [illegible]			
Circul. [illegible]			
[illegible]			
Started @ 2 & 3 mates			
General rig up.			

Driller [illegible]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.

Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES..... NO.....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

I.O.E.
Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No......

Hay River LSD. H 28 SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Nat #2 Month March Day 16 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller Kaplan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Casing moved			
Installed new mud			
Fill gauge			
Installed gauge			
racks.			

Driller Coghill

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller Thomas

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

F.O.E.

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No......

Lone River LSD. 4 3 8 SEC..... TWN..... RGE..... W..... Contractor F.O.E. Type Rig Nat #3 Month March Day 15 1967

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller Kuspan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Working up and starting boiler			
Installed oil steam lines etc.			
Erected rig house			

Driller Cashiel

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.

Driller Kuspan

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No.....

.....ICE P.P. LSD. H38 SEC..... TWN..... RGE..... W..... Contractor ....T.D.E.... Type Rig ....Nad. #3.... Month ....March.... Day....14.... 19 67

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller....Gilbertson....

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Setting in tanks to rig buildings.			
Looking up rig motels.			

Driller....Kaczyan....

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.

Driller....Coghill....

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ....[illegible].... Approved by .....