Drilling Authority No. ...206.....
Date Issued .....23-11-65.....

WELL NAME IOE Stony I-50
FIELD ..... Area: .....
LOCATION: Unit .....I..... Section.....50..... Grid ..67-30;..135-15.....
Latitude .....67-29-44.....Longitude .....135-22-46.....
From Established Reference Marker .....
.....

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

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	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.
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	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
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	Well Card.
	Well Visit.
	Daily Drilling Reports.
	Logs. Large scale ..... Small scale .....

CANADA

Drilling Authority No. 206

Date Issued Nov. 23rd, 1965.

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 Stony I-50

Permit No. 3732 Lease No.

Imperial Oil Enterprises Ltd. (Permittee, Licensee, Lessee) Exploratory Licence No. 700 & 1019

Imperial Oil Enterprises Ltd. (Operator) Exploratory Licence No. 700 & 1019

Location: Unit I Section 50 Grid 67-30 135-15

Latitude 67° 29' 44" N Longitude 135° 22' 46" W

From Established Reference Marker Topographical Survey-Triangulation Station

	DATE	DEPTH
Spudded	Dec.7/65	Surface
Suspended		
Resumed		
Finished Drilling	May 3/66	10,968
Deepened		
Complete (gas/oil)		
Abandoned	May 8/66	10,968
Rig released	May 8/66	10,968

Pool (s)

Interval(s) open to production

Elevation: Gr. 1041

K.B. ~~1057~~ 1056

Drilling Contractor & Rig No. Imperial Oil-National #3

Contractor's Business Licence No. Company owned

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at—	Sacks of Cement and Additives
1. 13-3/8	J55	54.5	875.44 1145-7350 5840-04	897	625
2. 9-5/8	N80	43.5 & 40		6933	525 + .33 Lignox
3. (Shot off at 3892' and pulled)					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Cretaceous	170	+887
Lower Cretaceous	170	+887
Imperial	860	+197
Canol	6930	-5873
Hume	7155	-6098
Bear Rock	7375	-6318
Ronning	10630	-9573

CORE RECORD

From	To	Rec.	From	To	Rec.
2574	2598	24	7414	7464	33
3637	3654	16	7587	7595	5-1/8
4615	4624	7	8074	8078	2½
5757	5770	6½	8940	8965	25
6785	6797	12	10122	10147	25 (Analysed)
6910	6914	2½	10942	10968	26
6990	7036	6½			

LOG RECORD

Run No.	Type of Log	From	To
1	MC	891	6931
2	MC	6932	10939
1	IE	893	6931
2	IE	6933	10937
1	BHCSGRC	893	6930
2	BHCSGRC	6933	10939
1	Dipmeter	893	6926
	Velocity Survey	893	10939
2	Dipmeter	6933	10935

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

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
May 4/66	10620	10320	160 Sax felt at 10,300'
May 5/66	9950	9780	100 Sax felt at 9750'
May 7/66	3940	3840	100 Sax +2% CaCl2 felt at 3815'
May 8/66	950	850	120 Sax + 2% CaCl2 felt at 780'
			10 Sax in conductor pipe
			5 Sax in Mouse Hole
			10 Sax in Rat Hole
			Welded steel plate.

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
1	April 22 24	Bear Rock	10370	10424	60	60	60	4052	3695	229	317	5109	5090	Rec. 150' mud, 375' muddy salt water.
2	May 1/66	Bear Rock	10595	10655										Misrun. Used and recovered 700' water cushion, 500' fluid
3	May 2/66	Bear Rock	9823	9883										Misrun. Recovered 600' mud.
4	May 4/66	Bear Rock	9837	9896	60	60	60	4164 (Field Pressures)	4138	246	1074	4921	4884	Recovered 2127' salt water, 20' 30' mud.

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CANADA
MAY 19 1966
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CNP-1-8182	Core	10122	10147	Core	
L-31966	Water	10370	10429	DST #1	3 Samples
		10595	10655	DST #2	4 "
		9823	9883	DST #3	2 "
		9837	9896	DST #4	12 "

PRESENT STATUS OF WELL

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

Company Imperial Oil Enterprises Ltd.

Signed by [signature]

Title Manager - NWT Exploration District

Date May 17, 1966

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

File No.....

Drilling Authority No.....206.....

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 I.O.E. Stony I-50-67-30-135-15

Location: Unit I Section 50 Grid 67° 30' - 135° 15'

Latitude 67° 29' 44" Longitude 135° 22' 46"

From Established Reference Marker Topographical survey - Triangulation Station

Permit No. 3732 Lease No. Imperial Oil Enterprises Ltd.

(Permittee, Licensee, Lessee)

Date of commencement of proposed program May 4th, 1966

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at None encountered

Gas at None encountered

Water at 9837'-9896'; 10,370'-10,424'

Total Depth 10,968' Date of last operations May 4th, 1966

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. 13 3/8"	54.50	875.44	897.16	625 sacks cement fondu	None
2. 9 5/8"	40 & 43.5	6955.88	6933.0	525 sacks + 0.33% Kembreak	3892'
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	10,620'-10,320'	Ronning	160 sacks	Feel for this plug in 8 hrs.
2	9,950'- 9,780'	Ronning	100 sacks	Feel for this plug in 8 hrs.
3	3,940'- 3,840'	Imperial	100 sacks + 2% $CaCl_2$	Feel for this plug in 8 hrs.
4	950'- 850'	Lower Cretaceous	120 sacks + 2% $CaCl_2$	Feel for this plug in 8 hrs.

The following logs have been run Induction E-log; Sonic Log, Micro-Log; Dipmeter; Velocity Survey

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

Operations to be carried out by Imperial Oil Enterprises Contractor Licence No. ~~A1021~~

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

Responsible Agent in field Mr. A.L. LaBerge

Dated at Edmonton, this 13 Day of May 1966

Signed by [signature] Company Imperial Oil Enterprises Ltd.

Title Division Production Manager Operator's Exploratory Licence No. 1019

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. A.R. Coad on the 4th of May, 196

Dated 16 May, 19 66

[signature]
Oil Conservation Engineer

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

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

File No. .....

Drilling Authority No. 206

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

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

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

Name and number of well: IOE Stony I-50-67-30-135-15

Location: Unit: I Section: 50 Grid: 67°30'-135°15'

Latitude: 67°29'44" Longitude: 135°22'46"

From Established Reference Marker: Topographical Survey - Triangulation Station

Elevation: Ground: 1041' K.B. ..... feet above sea-level.

Well is expected to produce from: Middle Devonian formation at a depth of about: 7000 feet. FTD 12,000

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

Permit No.: 3732 Lease No. ..... Acreage: 49234

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

Exploratory Licence No.: 700

Surface owned by Crown ~~xxx~~ (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. 13 3/8	54.5	J55	Mannsmann	New	750	To surface
2. 9 5/8	40 & 43.5	N80	"	New	7000	As required
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment:
Middle Devonian (Hydril Double Gate Schaffer

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

Company Owned Rig

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

At well: G.E. Schultis At registered office: J.S. Poyen

Address: Trail Building Dawson Creek Address: 500 - 6th Avenue S.W. Calgary Alberta

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

Dated at Calgary, this 22 day of November 19 65

Signed by: Roland Hemfell Company: Imperial Oil Enterprises Ltd.

Title: Regional Engineer Operator's Licence No. 700

(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 23rd November 1965 B.H. Shorns
Oil Conservation Engineer

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

NANR 52-90-1 (7-65)

CANADA

File No.....
Drilling Authority No....206.....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Inuvik Date: 9th July 1971

TO: The Oil Conservation Engineer:

RE: IOE Stony I-50 67-30-135-15

Location: 67.49556 N., 135.37944 W. Status: D & A, May 1966

This location was inspected by the undersigned on 9th July 1971 T.D. 10,968'

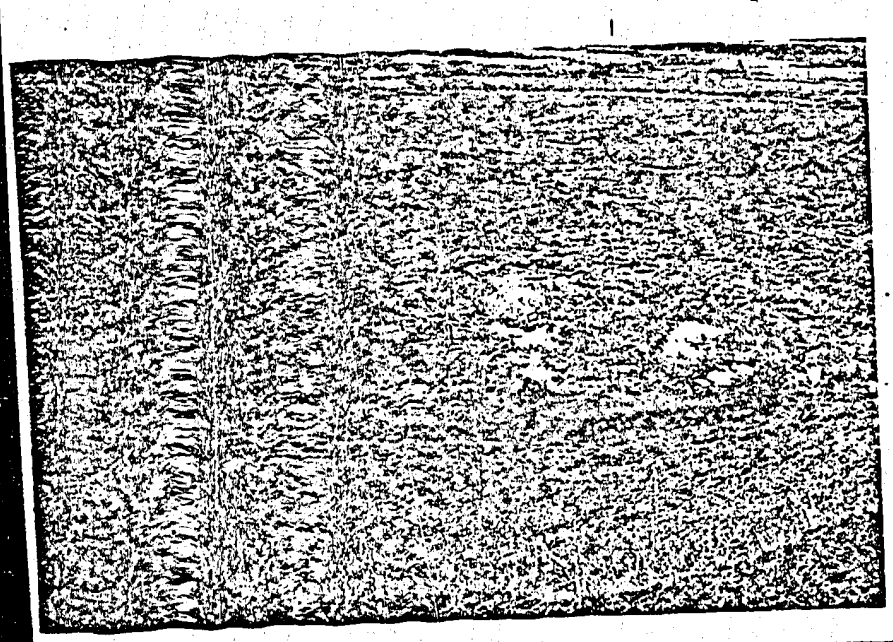
The location is in ~~XXXXXXXX~~/unsatisfactory condition.

The following items require attention:

1. 1" wire rope, perhaps 200', to be removed or buried. Also bury or remove bits
2. and other steel fittings near marker.
3. Burn lumber that has already been piled.
4. Paint identifier fluorescent orange.
5.
6.

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

10 piles of lumber to be burned.
Lease never leveled but partly grown over and is satisfactory.
Large quantity of cement around base of marker.



Inspected by L. O. Thomas

M. D. Thomas
District 2

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.

IA NTD 52-00-14 (9-69)

GEOLOGICAL & EVALUATION
Resource Management Division
JUN 26 1966
OTTAWA, CANADA
Dept. of Northern Affairs & National Resources

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Company: Imperial Oil Enterprises Ltd.

Signed by: Peter Stoneley

Title: Mgr NWT Exploration District

Date: May 30/66

SECTION I

SECTION I - SUMMARY OF WELL DATA

a) Well Name and Number - IOE Stony I-50

b) Permittee - Imperial Oil Enterprises Ltd.

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

d) Location - I-50-67-30-135-15
67°29'44" N 135°22'46" W

e) Not Applicable

f) Permit Number - 3732

g) Drilling Contractor - Imperial Oil - National #3

h) Drilling Authority - 206 - November 23rd, 1965.

i) Classification - New Field Wildcat

j) Elevations - Gr. 1041 K.B. ~~1057~~ 1056

k) Spud - December 7th, 1965 - Conductor Hole
December 10th, 1965 - Hole

l) Completed Drilling - May 3rd, 1966.

m) Total Depth - 10,968'

n) Well Status - Abandoned

o) Rig Released - May 8th, 1966.

p) Hole Size - 17½" to 905'
12¼" to 6933'
8-5/8" to 10942'
7-13/16" to 10968'

q) Casing - Ran 28 joints 875-44' 13-3/8" Range J55 Mannesmann casing 54.5lbs 8 thread cemented with 625 sax cement fondu and landed at 897'.

Ran 211 joints 9-5/8" Range N80 Mannesmann and National casing (1145.73 43.5 lbs and 5840-04 40 lbs) 8 thread with Baker float shoe, cemented with 525 sax of common cement plus .33 lignox and landed at 6933'.

SECTION II

Section II - GEOLOGICAL SUMMARY

a) Formation Tops

KB 1056

Formation	Sample	Log
Cretaceous		170
Lower Cretaceous		170
Imperial	860	860
Canol	6720	6930
Hume	7160	7155
Bear Rock	7350	7375
Ronning	10730	10630

b) Cored Intervals

Core #1	2574-2598	Recovered 24'	Imperial
Core #2	3637-3654	Recovered 16'	Imperial
Core #3	4616-4625	Recovered 7'	Imperial
Core #4	5757-5770	Recovered 6.5'	Imperial
Core #5	6785-6797	Recovered 12'	Imperial
Core #6	6910-6914	Recovered 2.5'	Imperial
Core #7	6990-7036	Recovered 6.5'	Canol
Core #8	7414-7464	Recovered 33'	Bear Rock
Core #9	7587-7595	Recovered 5.1'	Bear Rock
Core #10	8074-8078	Recovered 2.5'	Bear Rock
Core #11	8940-8965	Recovered 25'	Bear Rock
Core #12	10122-10147	Recovered 25'	Bear Rock
Core #13	10942-10968	Recovered 26'	Ronning

C.

CORE DESCRIPTION

Core No. 1 2574'-2598' Rec. 24'/24'

Core jammed off after 24 feet so did not cut the expected 25 feet.

2574'-2594' Shale, medium grey, micromicaceous, abundant black carboniferous plant fragments, does not seem to be calcareous, breaks with a smooth conchoidal fracture, white to brown translucent anhydrite was present in thin layers along some bedding plains.. Bedding planes dip from 30°-45°.

2594'-2598' Shale as above with occasional bed of siltstone, commonly 1"-2" in thickness but one 10" zone of siltstone about one foot from base of core. The siltstone is light grey, slightly argillaceous, slightly micaceous, apparently noncalcareous, the darker shale appears to be concentrated along laminae or bedding plains, finely laminated and in places is cross laminated. In this lower part of the core the laminae and bedding dip more steeply - up to 60°. Core is approximately 75% shale and 25% siltstone.

52, 56, 52, 44, 41, 37, 45, 45, 48, 55, 55, 52, 38, 45, 45, 46, 39, 42, 39, 39, 35, 40, 40, 40 mins. per foot.

Core No. 2 3637'-3654' Rec. 16'/17'

Core jammed off after cutting 17 feet.

3637'-3654' Core about 95% shale and 5% siltstone.

3637'-3653' Shale, dark grey, micromicaceous, noncalcareous, bedding is apparently horizontal and shale breaks up into hockey puck like pieces, abundant plant? fragments, black in color and varying from very small to ½" or more in length with pyrite associated with some of them, pyrite is also found throughout the shale, there are some vertical fractures, anhydrite in the form of white to brown translucent thin sheets are found along some bedding planes and along some of the fractures and forms very smooth shiny surfaces.

A few thin siltstone interbeds are found throughout the core. Siltstone, medium to medium dark grey, argillaceous, micaceous, trace of dolomitic cement, trace of pyrite, interbeds range from 1"-4" in thickness and there are scour contacts between the shale and siltstone and in one instance a narrow band of pyrite is found along the contact. Finely laminated due to a concentration of elongated black minerals along laminae, some cross laminations, and several anhydrite filled fractures, some of siltstone interbeds appear to dip about 20°- 30°.

3653'-3654' Lost core.

58, 54, 46, 49, 50, 45, 40, 35, 38, 40, 40, 40, 50, 55, 48, 52, 65 mins. per foot.

Core No. 3 4616'-4625' Rec. 7'/9'

Core jammed off after 9' cut probably due to core catcher spinning off, since it was off when core brought to surface.

The entire interval consists of dark grey, quite hard shale. Thin to medium bedded, small flakes of carbonaceous material occur on most of the bedding planes, and are probably altered plant fragments. Thin interbeds, up to 1", of siltstone occur throughout interval. The siltstone is medium grey in color, with some recognizable lithic, fine grained sand. Both shale and siltstone are quite micaceous.

The bedding in the core is dipping at 20°-25°. The siltstone intervals appear to have graded bedding. The siltstone-shale contact being sharp on the underside and grading into shale upwards. Cross bedding in the siltstones and what appear to be semi consolidated slump features and slight folding would tend to lead to the conclusion that the depositional slope was quite steep.

The core differs from #1 and #2 in that it is <u>not</u> fractured, and cleavage and slickenslide surfaces are absent.

41, 59, 57, 62, 60, 66, 62, 60, 68, 90 min. per foot.

Core No. 4 5757'-5770' Rec. 6½'/13'

Quit coring after 13' as coring rate slowing down considerably. When brought to surface it was found that the core catcher had worked its way off as with Core No. 3.

5757'-5757½' Sandstone, medium to medium dark grey, very argillaceous and very silty, slightly dolomitic, lithic and quartz grains poorly sorted and angular to subrounded, <u>tight</u>, trace pyrite, appears massive with no bedding planes.

5757½'-5762½' Shale, medium to medium dark grey, micaceous, very slightly dolomitic carbonaceous material which is probably altered plant fragments is present ranging from one piece ½" x 2" to much smaller fragments. A ¼" coal seam is present 2½' from the top of the core. The core is fractured and there are numerous slickensided surfaces. The core dips approximately 45°-50°, trace of siltstone is one ¼" thick bed of siltstone.

5762½'-5763½' Siltstone and shale. In the upper part interbedded shale and siltstone grading into nearly straight siltstone at base. Shale is as above. Siltstone, light grey, sl. dolomitic, quartzose with some concentrations of shale marking laminae and bedding surfaces. Some healed fractures with minor displacement of laminae along fractures. Cross bedded. Dips from 50°-60° at base of core.

5763½'-5770' Core missing.

66, 45, 41, 48, 42, 48, 49, 37, 34, 33, 54, 51, 58 mins. per foot.

Core No. 5 6785'-6797' Rec. 12'/12'

6785'-6794' 9' Shale, black, micromicaceous, pyritic with pyrite in blebs and concentrated along bedding planes. Blebs are generally elongated (elongated parallel to bedding) and oval in shape and vary from ½" to 1" or more in length. Bedding planes are occassionally delineated by bands of pyrite up to ¼" in width. Bedding planes occasionally appear distrubed and beds have dips ranging from essentially horizontal to nearly 30°. Bedding planes are sometimes offset by minor fractures and some of shale is quite fractured with numerous slickensided surfaces. Shale is very slightly dolomitic. Near the top of the core a 1" band of calcareous shale and 8" from top of core a calcareous bleb approximately 4" x 2". Shale breaks with a smooth conchoidal fracture. One pyritized plant ? fragment was noted in one chip 5½' from top of core. Plant fragments common on bedding surfaces.

6794'-6797' 3' Siltstone, medium grey, bedding varying from near horizontal to dips of 30°. There are healed vertical fractures. Some are quartz filled while the main vertical fracture seems to have a concentration of carbonaceous material. Dolomitic cement and siltstone is essentially quartzose. Tight with no porosity. Scattered pyrite. A few shale interbeds and may be some concentration of shale along laminae.

75, 79, 65, 70, 50, 68, 45, 47, 40, 55, 63, 65 mins. per foot.

Core No. 6 6910'-6914' Rec. 2.5'/4'

The recovered interval consists of black, siliceous shale. Thin bedded, the bedding being horizontal or nearly so. Blebs of pyrite are found along some bedding planes. The shale is very hard, dense, and quite carbonaceous.

Thin, vertical hairline fractures occur, but are infilled with white calcite. No slickensides or planes of movement were noted.

The core was intended to go for 25 feet and since argillaceous lime was observed in samples immediately above the core, it was intended to intercept the Canal-Hume Contact. The core, however, was believed to be jammed in the barrel after 4' cut and drilling resumed with 5' samples taken in order to pick up the carbonate top.

67, 47, 87, 75 mins. per foot.

Core No. 7 6990'-7036' Rec. 6.5'

This core was cut with the intention of intercepting Hume carbonate. Argillaceous, limestone was observed in 5' sample at 6970'-75'.

The core consists of essentially flat lying medium bedded black siliceous shale. Pyrite is quite common throughout with some thin

Cont'd.

Core No. 7 6990'-7036' Rec. 6.5' - Cont'd.

laminae consisting of pyrite alone. The shale is very hard, and quite carbonaceous. The shale is very brittle and appears to shatter quite easily, this perhaps contributes to the difficulty encountered in coring this unit. Bedding is from horizontal to 5° dip.

During the coring of this core the rate of penetration was approx. 15'/ft. and although mud pressure did fluctuate, coring was continued in hopes of obtaining recovery. However, after the first 7' or 8' it appears as though the core jammed in the barrel and began to mill at approx. the same rate as the coring had proceeded.

161, 69, 34, 10, 11, 9, 14, 18, 15, 13, 14, 21, 12, 11, 12, 10, 11, 11, 11, 11, 13, 11, 12, 12, 12, 11, 12, 12, 16, 11, 12, 13, 13, 12, 13, 13, 12, 12, 12, 13, 14, 13, 14, 13, 14, 14 mins. per foot.

Core No. 8 7414'-7464' Rec. 33'

7414'-7415.3' (1.3') Thinly laminated limestone with shale partings. Bedding is horizontal, and even. Limestone - light grey - brown, dense micritic limestone with mottled argillaceous patches. Calcite infilling with pyrobitumen in fractures. Very vague pellet shadows in the limestone which might indicate and original pellet-limy limestone. Birdseye structures.

Black shale partings are irregular and shale also infills some fractures. Shale is pyritic.

7415.3'-7418.1' Dark grey argillaceous limestone, some skeletal debris (brachiopod valves, ostracods noted) dense. Calcite fracture filling. Bedding is very nearly horizontal and somewhat wavy indicating some current conditions.

7418.1'-7427.9' Grey buff limestone - massive bedded and very stylolitic with irregular wavy laminae of argillaceous material. Limestone is micritic pellet, skeletal, with very fine skeletal fragments. Brachiopod valves most common recognizable fragments. These are very thin walled brach shells. Pellets and lumps are common throughout but are very vague in places. Partially recrystallized. Any porosity that was originally in the limestone or created due to recrystallization has been filled with pyrobitumen and sparry calcite. The pyrobitumen is intercrystalline as a result and is quite abundant in places. Birdseye structures with sparry calcite infilling are common - ostracods also.

7427.9'-7430.9' (3.0') Shale - light grey-green, with very fine disseminated pyrite. Scattered oval and elongated fragments of micritic skeletal pellet limestone contained in the shale. The limestone is as in interval above, these chunks are up to 4" in diameter, are partially rounded and appears as though the shale was forced to follow the outside edges of the chunks and parallel to them. i.e. plastic flow

Cont'd.

around the limestone fragments and in some cases through the limestone fragments along planes of weakness (similar to boudinage?).

7430.9'-7433.2' (2.3') Limestone, buff to light grey, color with numerous irregular stylolitic like argillaceous stringers. Scattered pyrite in the limestone as well as in the argillaceous laminae. Limestone is pellet lump miciritic with minor skeletal material. Clear calcite infilling between pellets and lumps and also in birdeye structures.

7433.2'-7435.5' (2.3') Limestone, buff to light grey similar to above interval, micritic pellet, with scattered irregular shaped patches of medium grey shale. Slightly pyrobituminous, scattered pyrite in the shale.

7435.5'-7437.4' (1.9') Dense, dark brown micritic limestone with high argillaceous content. Very few stylolites in interval, massive unfractured and not affected by irregular shale invasion as above intervals of limestone.

7437.4'-7447 (9.6') Medium bedded, buff grey, limestone similar to previous limestone. Micritic pellet-lump skeletal limestone. Skeletal material very fine, pellets are vague but on etching are visible in parts. Ostracods and birdseye structures persist.

Irregular laminae or stringers of greenish shale are laced throughout this interval increasing in proportion to the lime towards the base of the core where interbedded limestone and shale occur. Calcite fracture filling and some chalky limestone at top of interval. Trace pyrobitumen.

CONCLUSION

The interval of the Hume represented by Core #8 seems to consist of a shallow wafer lagoonal limestone. The vague pellets suggest worm burrowing as does the fact that bedding is very indistinct or even absent. The irregular pattern of argillaceous stringers might also be attributed in part to argillaceous matrix in burrows.

All porosity in the original limestone has been filled by sparry calcite and pyrobitumen.

The presence of extremely thin and delicate brachiopod valves would indicate that strong currents were not prevalent; also, thin shelled brachs are characteristic of quiet water environment. Ostracods filled with sparry calcite occur in abundance. Calcite filled "birdeye" structures are also present. These are also characteristic of lagoonal environment of deposition.

38, 26, 17, 19, 15, 13, 17, 15, 15, 13, 17, 15, 14, 13, 12, 10, 12, 23, 15, 13, 12, 13, 14, 10, 10, 13, 12, 13, 10, 10, 20, 22, 25, 33, 10, 11, 9, 10, 10, 10, 7, 6, 7, 10, 10, 10, 10, 8, 11, 10 mins. per foot.

Cont'd.

Core No. 9 7587'-7595' Rec. 5'/8'

7587'-7588' (1.0') Thin bedded medium brown limestone, micritic pellet, skeletal limestone, minor argillaceous laminae. Dense with micrite matrix, some calcite infilling between pellet - skeletal material. Skeletal material is very fine, mainly ostracods and brachiopods valves. Trace pyrobitumen in fractures and some sparry calcite infilling. Limestone 90% argillaceous mat. 10%.

7588'-7591.3' (3.3') Massive micritic pellet skeletal limestone. Buff to light grey color. Partially dolomitized to varying degrees, in parts the amount of euhedral dolomite is approx. 50%. Dolomite <.03 mm. crystals. Skeletal material preserved. Tight with some pyrobitumen in vugs with sparry calcite. Dolomitization most pronounced along fractures.

Irregular argillaceous laminae common throughout interval, with finely disseminated pyrite along fractures and in the limestone near fractures.

7591.3'-7592' (.7') Limestone, pellet, lump micrite, with abundant vugs infilled with pyrite, pyrobitumen and sparry calcite, buff color, with argillaceous partings. Partially dolomitized along fractures.

Good original vuggy porosity now infilled.

Some fragments of the light grey green shale, with scattered pyrite throughout. Interval is very fractured due to milling.

This core was discontinued because outer barrel of the core barrel twisted off.

28, 23, 17, 15, 15, 15, 32, 62, 71 mins. per foot.

Core No. 10 8074'-8078' Rec. 2½'

Dolomite, grey, limy, crystalline, micrograined to fine grained, slightly argillaceous, quite fractured, and infilled with a dark limy argillaceous material, which is for the most part highly pyritized. There are numerous long fractures infilled with sparry calcite. The dolomite is dense and tight with no indication of porosity or staining.

22, 41, 30, 32 mins. per foot.

Core No. 11 8940'-8965' Rec. 100%

8940'-41.5' (1.5') Skeletal micritic and pellet micritic limestone. Large organic fragments - probably stroms and crinoid fragments in a matrix of micro to crypto grained micrite. Light brown in color. Massive, hard and tight. 2" band of slightly argillaceous and scattered with pyritic rhombs skeletal micrite at base.

Cont'd.

Core No. 11 8940'-8965' Rec. 100% - Cont'd.

8941.5'-44' (2.5') Cream to buff pellet micrite. 50-70% fine pellets in matrix of cream to buff micrograined micrite, massive, tight.

8944'-47' (3.0') Skeletal micritic limestone, buff, dense, tight. Skeletal content. 60-70% at top decreases towards base. Incipient chalky patches, massive, dense, tight throughout.

8947'-49' (2.0') Pellet - micritic limestone, light green/buff. 75% fine pellets in micrograined micrite matrix. Dense tight.

8949'-55' Pellet and skeletal micritic limestone, light green/buff. Fine grained pellets with 10% medium - coarse skeletal fragments. 5% chalky patches. Dense, tight.

8955'-8960' (5') Pellet micritic limestone, light green/buff, fine grained pellets in micro micrite matrix. Dense, tight. 5-10% coarse skeletal fragments. Partly or completely replaced by calcite. Thin partings of dolomite rhombs with bituminous material towards base.

8960'-65' (5') Skeletal micrite and pellet skeletal, coarse skeletal fragments in matrix of greyish buff micrite. Dense, tight. Occasional calcite veins. Fine grain, pellets in micrite. Core has slightly conglomeratic appearance. Some stylolitic pls. Rare heavy bituminous pls. probably following outlines of fragments and lumps. Occasional calcite replacement of organic fragments.

26, 14, 13, 14, 13, 13, 16, 14, 14, 12, 13, 21, 16, 15, 13, 14, 27, 17, 13, 15, 13, 10, 10, 11, 11 mins. per foot.

Core No. 12 10122'-10147' Rec. 25'

Dolomite, light and dark grey, medium crystalline, argillaceous in part, with tight, interlocking crystals, very brecciated in appearance, in part - with numerous fractures and vugs. These vugs range in size from pin-point to 3" in diameter and are infilled with coarse, euhedral dolomite crystals. Some fractures and voids are infilled with massive, white, chert, (white, silicified dolomite?). Excellent vuggy porosity.
The last three feet suggests a vuggy dolomitized, organic framework or lattice with excellent solution and vug porosity and some good inter-crystalline porosity. No oil staining noted.

10, 20, 16, 9, 13, 14, 16, 24, 19, 22, 15, 17, 13, 20, 22, 19, 20, 22, 29, 29, 36, 35, 25, 18 min. per foot.

Core No. 13 10942'-10968' Rec. 26'

Dolomite, grey, fine to medium intercrystalline with tight, interlocking dolomite crystalline limestone, slightly argillaceous, with floating quartz, silt and sand (coarse) grains, well rounded to sub-

Cont'd.

Core No. 13 10942'-10968' Rec. 26' - Cont'd.

rounded., scattered patches of white, recrystallized dolomite, some slight fracturing, with fractures infilled with the above white, recrystallized dolomite, fractures contain a few small vugs infilled with dolomite rhombs. Dolomite is dense and tight.

19, 27, 13, 20, 13, 15, 13, 12, 10, 10, 10, 12, 12, 12, 11, 13, 14, 12, 16, 15, 14, 18, 20, 20, 23, 22 mins. per foot.

(d) AUTHOR SAMPLE DESCRIPTION DATE Dec 13, 1965 FORM

DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
0-50	Ti		Gravel.	gy	Unconsolidated, poorly sorted gravels. Well rounded chert pebbles, and quartzite pebbles. Trace of igneous pebbles.						gravel
50-180	—		No samples.		Probably due to fact that drilling through frozen mud. Circulation grindings and washed out around conductor pipe						mud.
180-190		50	Quartz ss.	ltgy	fine grained, well sorted, well rounded, quartz-glauconite sandstone. Trace pyrite	Ti	Tr		—		quartz glauconite silt
		50	Gravel	gy	Mostly quartzite and chert pebbles						chert quartzite
270-330		100	Siltstone.	ltgy	Quartzose and micaceous siltstone, calcareous, some quartz, sand size grains. One fragment schoolite Source to N.W?						silt. qtz. mica calc(?)
330-390		10	Chert pebble conglomerate.	dkgy	Interbedded, siltstones as above, and a fine grained quartz sandstone & micaceous and silty						chert
		40	fine sandstone	ltgy	trace pyrite intergranular Trace intergranular porosity	Ti	Tr				qtz sand. silt arg. mat. calcarite
		50	siltstone	gy	Some Rounded dark gray chert pebbles trace white calcite fracture filling.						as above
390-420		100	qtz glauconitic sandstone.	ltgy	Well sorted, well rounded qtz sandstone, silt rounded glauconite grains some pyrite infilling intergranular porosity. Trace to poor porosity.	Ti	Tr P.				qtz glauconite pyrite silt carbonate

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
420.	F	100	qtz sandstone	lt gy	quartz sandstone, pyrite infilling intergranular porosity	IG	P				qtz. silt. glauconite pyrite carbonate	
450.					some glauconite + silty.							
					qtz grains well rounded,							
					fair sorting.							
					Micaceous.							
450 -	F	100	quartzose siltstone	lt gy	quartzose siltstone, some ~~sandy~~ very fine						qtz. silt.	
480.					sand, some glauconite and						arg. mat.	
					pyrite.						Unspecified glauconite.	
480	F	100	quartzose silts.	lt	as above, less coarse fraction.						qtz	
510.				md gy							silt arg mat glauconite	
510.	F	30	(silty) qtzose SS.	lt gy	fine grained, clean quartz						qtz.	
540					sand, fine probably inter-						arg mat.	
					bedded with subtly micaceous							
					shale. Trace to Poor ~~por~~							
					porosity in sands, & trace of						shale	
		70	silty shale.	lt gy	glauconite and pyrite						silt.	
					shale is calcareous.						carbonate	
540	F	90	silty qtzose SS		as above							
590		30	silty shale.		as ae above.							
590	F	50	~~silty qtzose SS~~ salty lime	md gy	thin bedded siltstone and						silt.	
620.					calcareous shale. Very						qtz.	
					little sand size in siltstone.						arg mat.	
					clean. Trace glauconite.						shale	
		50	silty shale	lt gy	shale as above micaceous						silt. carbonate	
620.		100	lithic qtz SS	md gy	Very fine grained quartz lithic						qtz. ~~lithic~~ silt	
					sandstone, fragments are						carbonate	
					more angular than previous.							
					sub rounded, predominately	IG	IP					
					chert and qtz, silty, trace							
					glauconite & pyrite							
					Trace intergranular							
					porosity.							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	%	NET FT.	STAIN TYPE	AMT.	COMPONENT
630-40	F	10	Lithic qtz SS.	mdgy	as above.	Ifg	To				90% qtz 10% lith grs cros
		70	Siltstone	mdgy	fair; micaceous, partially interbed with SS as above. Minor amt. Some chert pebbles Calcareous						silt carb mat.
640-60		10	Qtz silty SS.	ltgy	Well rounded, moderately sorted quartz sandstone with glauconite and pyrite in filling. Some porosity	Ifg	P.				qtz silt glauconite pyrite carbonate
660-70		30	Qtz silty SS	ltgy	as above.						as above
		70	argillaceous siltstone	mdgy	Interbedded with micaceous siltstone. Some Red weathered pebbles						siltstone carb mat carbonate carbonate silt carb mat shale
670-80		60	Quartzose siltstone	ltgy	Interbedded, partially thin Bedded. Pyrite in sandstone						
		20	Shale	mdgy							
		20	Quartzose silty SS.	ltgy	as above	Ifg	Tr				as above
680-90		50	Quartzose siltst	aa	as above. Some well rounded pebbles of chert and quartzite in the sample						as above as above
		50	Quartzose silty SS	aa							
690-700		70	Quartz silty SS.	aa	More Siltstone, not as glauconitic as above. Trace of green and black shale pebbles probably of Imperial formation pebbles. Trace carbonaceous mat.	Ifg	P.				carbonate pyrite silt carb mat. silt carb mat. as above
		30	Quartzose siltstone	aa							
700-20		70	Quartzose siltstone	aa	siltstone as above, some sand, but thinly laminated						shale
		30	shale	mdgy	shale, appears micaceous						
720-30		50	Quart. siltst.	aa							
		50	shale	aa							50

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
730-750	E	70	Shale	ltgy	thin bedded, trace carbonaceous material.						shale	70
		30	~~silty quartzose ss.~~ ~~siltstone~~	ltgy							quartz silt any mat.	20
750-760	F	60	~~silty qtz ss. mudstone shale~~		cc cc							
		40	shale		cc cc						silt any shale A.S. as above	40 35
760-765	G	100	micaceous shale	mdgy	Thin bedded micaceous shale, probably quartzose, silt some thin silty laminae slightly calcareous						shale silt carbonate	95
770-840		90	micaceous shale		cc cc. Thin interbeds of						shale cc cc	
		10	quartz ss.	ltgy	clean quartz sandstone, fine grained						~~quartzitic~~ silt carbonate	
790-830		100	shale.	mdgy	shale thin bedded, trace of ~~sdy~~ sand, slightly silty						shale silt	95
830-860		100	conglomeratic beds.		Assortment of rounded gray chert pebbles, Quartzite pebbles, some quartz sandstones, and pebbles of ferruginous sandstone. Very Poorly sorted. Some sandy dolomitic siltstones.	TG	P				conglom. litharenite sands. silts.	
860	860	-	missing									
860	890	40	sandstone (greywacke)	ltgy	v fine ~~fine~~ med grained; poorly sorted; angular to subangular. Argillaceous & silty; Trace of pyrite, tight; tr biotite, dolomite tr glauconite, 5-10% rock fragments						quartz ~~lithic~~ argillaceous pyrite dolomite glauconite	30 tr tr
		60	shale	medgy	micaceous, thinly laminated, pyritic silty; ~~poorly consolidated~~ ~~calcareous~~ material						shale mica pyrite quartz	90 5 tr
890	890	50 50	sandstone		a.a							
		50 50	shale		a.a							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
900		30	sandstone		a.a.							
			~~siltstone~~		a.a.; possibly some							
		70	Shale		black carbonaceous material						shale	60
900, 910		60	shale		a.a.							
		30	siltstone	ltgy, a/f brn.	micaceous; some v. fine ~~grained~~ quartz grains; argillaceous; v. sl. calcareous; tr glauconite						quartz argillaceous calcite glauconite	15
		10	sandstone		a.a. some iron staining (red & yellow coloration							
910-20	S	~~F~~	sandstone		a.a.							
		50	shale		a.a.							
		~~F~~ 5	Dolomite	buff	silty						dolomite silt	75
trace of dolomite also found in sltst & higher up												
920-930	F	70	lithic SS.	mdgy	v. arg. lithic greywacke type sandstone. Angular grains, poorly sorted predominatly clear qtz grains of sand size. Shale fragments noted in SS. Tight						lithic SS qtz arg mat. silt.	
					Shale is laminated, slightly						shale silt.	90
		30	Shale	mdgy	micaceous.							
930-940	f	30	lithic SS		a.a.							10
		50	Shale		a.a.							
		20	siltstone	mdgy	Interbedded with above, slightly sandy						silt. & qtz. arg.	

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
1050.50	F	70	Lithic SS.		as in interval 920-30' Tight.						as above
		30	Shale								
1060-70		10	Sandy Dol.	ltgy	Probably thin beds of the sandy dolomite, minor well rounded qtz grains in dolomite matrix	TIGHT					dk dolomite
											shale 10%
		20	Shale	mdgy	thin bedded. Predominantly						silt & fine
		70	org. siltstone	mdgy	very argillaceous siltstone						org mat.
1070-80		5	Sandy Dol.	aa	Thin Bedded Some fragments						
		95	org Siltstone	aa	of platy pyrite, probably fracture filling						
1080-90		30	Shale	dkgy	Interbeds of shale with the above siltstone. Pyrite fracture filling cont'						shale 10%
		70	dolomitic org Siltstone	mdgy							silts & dol. org mat
1090-1100		100	dolomitic Org Silts.	as above.							as above
1100-1010.		20	Silty dolomite	ltgy	Silty, slightly sandy dolomite interbedded with the above siltstones						dol. silt. sand qtz grains org mat. silts dol. lithic sand org mat.
		80	dolomitic org silts.								
1010-20		10	Lithic SS.	mdgy	Interbedded ltgy lithic SS and dolomitic argillaceous silts with minor shale.						
		70	org dol. silts.		as above						
		20	Shale.	dkgy							shale 10%
1020-30		80	Shale	dkgy	as above with minor org dol. silts. Shale is micaceous						shale 10%
		20	org dol. silts	ltgy							as above

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .0
1030-40		80	shale	lt gy	Interbedded shale with minor lithic SS lenses						shale	100
		20	lithic arg SS.	md gy							lithic arg mat silt	25
1040-70		100	shale.	md gy	Thin bedded shale. Trace carbonaceous material, plant fragments.						shale silt.	90
1070-90		80	shale		as above. Interbedded with thin beds of arg siltstone						as above	
		20	arg siltstone								silt arg mat.	10
1090-1120		90	shale		as above.							
		10	arg siltstone									
1120-30		70	shale	as	above.							
		30	arg siltstone	as	above.							
1130-50		90	shale	as	above.							
		10	arg siltstone									
1150-70		50	shale as above		Thin bedded slightly dolomitic argillaceous siltstone						as above lith SS. arg mat. silt dolomit	30
		50	arg sandy siltstone		some lithic sand.							
1170-90		40	shale	as	above.							
		60	arg sandy siltstone									
1190-1200		30	shale.									
		70	arg sandy siltstone.		Interbedded as above trace of carbonaceous material in silts & shales.							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
1200	F	50	shale	dk gy	~~Dense~~ Trace dolomite							
10.		50	arg sandy siltst	md gy	grains in the siltstone. Some							
					carbonaceous material in							
					shales, micaceous							
1210 -	F	70	shale		as above. Interbedded							
30.		30	arg sandy silts									
												as
1230 -		30	shale		as above. Slightly coarser						sand (lithic)	
40					lithic sandstone. Some very						silt	
		70	lithic arg sandst		coarse sand chert pebbles.						arg mat	3
					Light. Sand is dolomitic						dol.	
1240 -		90	shale silts	dk gy	shale as above minor						as above	
50		10	~~lithic arg~~	md gy	beds of argillaceous siltstone						silt.	
											arg mat	4
1250.		30	shale	gy.	as above. Slight increase						silts.	
60.					in lithic sand size particles						arg mat	4
		20.	sandy arg silts	md gy	in the siltstone.						lithic ss.	
1260 -		100	shale.	dk gy	as above. Some slickensided						shale	10
70					surfaces and wavy bedding						silt.	
					planes suggest folding.							
1270.		10	shale	dk gy	as above. Shale interbedded						as above	
90					w/ a medium very argillaceous							
		70	~~sandy arg silts~~	md gy	and silty lithic sandstone						lith ss.	
			lithic arg. ss.		angular fragments, dolomitic						arg mat	
					light.						silt	
											dol.	
1290 -		20	shale		as above							
1300.		80	lithic arg ss.		as above.							
1300.		60	shale	as	above. Interbedded shale						shale	
30.					and ~~sd~~ argillaceous siltstone						silts	
		40.	arg siltstone		~~gy~~						arg mat.	
											sand lithic	

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
1350		50	shale		as above						as above	
70												
		50	org siltstone								as above	
1340		70	shale		Slickensided surfaces are							
70.		30	org siltstone		prevalent throughout these							
					samples indicating faulting.							
1370		90	shale	dk gy	Interbedded shales and siltstone						shale	100
90.		20	org siltstone	md gy	Abundant slickensided surfaces						silt.	
					in this interval probably reflect						org mat	3
					some fault or movement along							
					bedding planes due to folding.							
1390 -		60	shale	dk gy	as above. Shale as above with						shale	100
1400.		40	org silt	lt gy	interbeds of slightly sandy						silt.	
					buff colored siltstone, dolomitic						org mat.	5
											sand lithic	
											silt.	
1400 -		60	shale.	dk gy	Interbedded shale with lithic						a a	
1420.		40	org. sandy siltst	md gy	sandy siltstone. Trace pyrite						silt.	
					in silts, very angular						org mat.	3
					lithic fragments.						lithic sand.	
1420 -		90	shale.	dk gy	similar to above less							
1450.		10	org sandy silts	md gy	silts							
1460 70		60	shale.	dk gy.	as above trace glauconite						shale	100
		40	org sandy silts	md gy	sand size grains in silts						silts	
											org mat.	3
											lithic sand.	
1470 -		70	shale.	dk gy	as above, trace of dolomitic							sh
90		30	org sandy silts	md gy	buff colored siltstones.						as above.	org
												sil
1490.		50	shale.	dk gy	as above, slightly coarser						as above.	sh.
1510.		50	org sandy siltst	md gy	lithic sand noted. Trace							silt
					pyrite. Tight.							org

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	%	NET FT.	STAIN TYPE	AMT.	COMPONENT
1510.	F	30.	Shale	dk gy	Siltstone with some lithic						shale
40		70	any sandy silts	lt md gy	a sand fragments Tight Upper						silt
					medium size grains ft						sd lithic
											any mnt
1540.		70	shale	dk gy	As above. silt predominately						
50.		30	any sandy silts	md gy	shale.						
1550.	F	50	shale	dk gy	Shale as above interbedded						as above.
70		50	any silty lithic	lt gy	with poorly sorted lithic sandstone						lithic sand
			sandstone		Tight, angular lithic grains						silt
											any mnt
											dol.
1570.		70	shale	dk gy	as above silt somewhat						
1590		30	any silty lithic	lt gy	less sandstone Trace						
90.			sandstone -		glauconite, Trace dol. as cement						
1590-		60	shale.	dk gy	Interbedded shale and siltst.						shale
1610.		40	any sandy siltstone	md gy	Siltstone has angular lithic						silt
					sand size fragments Carbonaceous						any mnt
					material Trace						lith ss
1610-		70	shale		as above.						
30		30	any sandy silty								
1630		80	shale.	dk gy	Interbedded shale and						
60		20	any sandy siltstone	md gy	any sandy siltstone with						silt
					minor amounts of angular						sd lithic
					grand silty lithic lithic						any mnt
					sandstones as before Tight						sd lithic
		10.	silty any lithic ss.	lt gy	Trace pyrite						any mnt silt.
1660-		30	shale		as above interbedded sh.						as above.
70		20	any sandy silts		and siltstone						as above
1670-		70	shale		as in interval 1630-60.						
80.		20	any sandy silt								
		10	silt any lith ss								

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
1630	1	40	Shale.	dk gy	Hrs in interval 1630-60.						
		30	arg silty sandy siltst.	md gy	Lithic sandstone with siltstone interbedded with shale, lithic						
		30	silty arg. lithic Sandstone	dk gy	grains again angular, sandstone fine tight, very poorly sorted. Trace carbonaceous material & plant fragments						
1640		70	Shale.		as in 1630-50'						
1710		20	arg sandy silts.		Trace of sand lithic sand						
		10	silty, arg. lithic ss.		grains, angular, up to very coarse size, light						
1710-20		60	Shale.	dk gy	Thin bedded shale, with gray						Shale - 10
		40	sandy arg. silt st.	md gy	lithic sandy siltstones as before. Trace carbonaceous material						silt. lithic ss. arg mat
1720		50	shale	dk gy	Thin bedded as above						
30		50	sandy arg siltstone	md gy							
1730-50		30	shale.	dk gy	Shale and siltsiltstone as						
		40	sandy arg silt st	md gy	above, with interbeds of the						
		30	silty, arg, lith ss.	dk gy	lithic arg. sandstone. Carbonaceous material and						sand lithic silt arg mat fine clastics
					traces of plant fragments as in.						
1750		40	shale		as above						
60		40	sandy arg silt st.								
		20	silty arg lith ss.								
1760		50	shale		as above						
70		40	sandy arg silt st.								

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
1740 -	T	80	shale	dkgy	thin bedded shale as						shale	
1800		20	arg sandy siltst	gry	above, some siltstone beds		/				silt.	
					as above, trace lithic		/				arg mat	
					ss as before.						lith ss.	
1800		50	shale	dkgy	Thin bedded shale as above						shale	
20.		50	sandy siltstone	ltgy	plant fragments. Siltstone is						silt.	
					cleaner, more quartzose, slightly						sandy. clay	
					dolomitic.						lith &	
											arg mat w	
											dk. coal.	
1820 -		40	shale		as above.							
30		50	sandy siltstone		as above.							
					Above lithology as interbedded						lith ss	
		10.	lithic, silty argil	vdkgy	silt, minor fine, lithic						qtz. ss.	
			ss.		sandstones.						silt	
											arg mat	
1830		90	shale		as in interval 1800-20.							
50.		60	sandy siltstone									
1850.		40	shale									
70.		60	sandy siltstone									
1890 -		30	shale.		as above, cleaner siltstone							
80		70.	sandy siltstone		interbedded silt shale,							
					plant fragments common,							
1880.		60	shale.		as above, carbonaceous &							
90		90.	sandy siltstone		plant fragments quite							
					common. Siltstone is slightly							
					dolomitic.							
1890		70	shale		as above.							
1910.		30	sandy siltstone									
1910 -		80	shale		as above Trace of							
30.		20.	sandy siltstone		brown dolomite probably							
					as dolomitic concretions in							
					the shale.							

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
1930	F	50	shale	med gy	Silty-lenses contains as						shale
50.		50	sandy siltstone	md gy	above. Shale is micaceous						silt
											argill
											sand silt
1950.	G	60	shale	md gy	as above.						sand qtz.
60		40	sandy siltstone	md gy							
F											
1960		50	shale	md gy	slightly more very fine sand						
80.		50	sandy siltstone	md gy	in the siltstone						
1980 -		40	shale	md gy	as above						
2000.		60	sandy silt.	lt gy							
					ft 2000 - 10. appr 5%						
					black argillaceous dolomite						
2005		5	dolomite	lt.	as from above						dol.
10.		50	shale	med gy	dolomite trace to 5%						
		50	sandy silt.	lt gy	shale and siltstone as						
					above.						
2010 -		80	shale	med gy	trace of anhydrite? fracture						
20.		40	sandy siltstone	lt gy	filling. Translucent, brown						
					color.						
220 -		70	shale	med gy	as above trace of brown.						
40.		60	sandy siltst.	lt gy	micritic dolomite.						
2040 -		50	shale	md gy	as above. in 1960-80.						
70.		50	sandy siltst.	lt gy							
2070 -		70	shale	md gy							
80.		30	sandy siltst.	lt gy							
2090		60	shale		as above.						
90		40	sandy siltstone								

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2090 -		40	shale	mdly	Shale is as above.						shale	
2100.		60	sandy siltstone	mdly	Sandy siltstone as above. slightly dolomitic trace of brown dolomite fragments also.						silt. arg mat. salt like sand qtz. dol.	
2100 -		60	shale		as above trace of anhydrite along some bedding planes, and fractures; brown translucent. Trace plant carbonaceous material cont's.							
40		40	sandy siltstone									
2140 -		80	shale	mdly	as above, much more shale							
50		20	sandy silts.	mdly	as interval.							
2150		70	shale									
60.		30	sandy siltst.									
2160		60	shale		trace anhydrite as fracture fillin. in the shales and silts. (white) varying to brown massive					as	in 2100-40. interval	
80		90	sandy silts.									
2180.		80	shale		as above.							
90.		20	sandy siltstone									
2190		100	shale		shale as above.							
2210					trace of anhydrite as above ~~~~ 5%							
2210.		70	shale		as above some siltstone							
40.					as above, anhydrite again as fracture filling and thin laminations.						(anhy)	
		10.	sandy siltst.									
2240.		70	shale		lithology as above.							
50		30	sandy siltstone									
2250		50	shale		as above.							
60		30	sandy siltst.		as above.							
		20	silty lstone		fine to very fine grained, angular to subangular quartz and clastic fragments. trace anhydrite fracture filling						sand-lstone sand qtz silt- arg mat	
		55.										

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
2260.	G	40	silty lithic ss	ltgy	Angular qtz and lithic fragments in silty matrix. Slightly argillaceous, poorly sorted.						sand lithic
70.											sand qtz
											silt
											argillaceous
					Shale & siltstone as above						
					trace anhydritic.						
		40	shale sandy slts.		Sand is Tight						sand lithic
		?									silt.
											argillaceous
		20	shale								shale
2270.		10	silty lithic ss	ltgy	Lithology as above less						as above
80					Sand shale and siltstone						
		30	sandy siltstone	ltgy	quite micaceous						
		60	shale.								
2280.		30	sandy siltstone	ltgy	as above						as above
90		70	shale.								
2290		20	sandy siltstone		as above.						as above
2300.		80	shale.								
2380		10	sandy siltst.		as above.						as above
2310		90	shale.								anhydritic
take over!!											
2310		5	siltstone	ltgy	micaceous (biotite). sandy						silt
2320											sand
											argillaceous
		95	shale	mltgy	micaceous						shale
					some black carbonaceous						
					plant fragments?						
			also some shale brngy		— non micaceous, waxy lustrous						
2320		5	siltstone		As above except silt						
2330					may have slightly more						
		95	shale		sand & some of						
					shale had a brown tint						
2330		10	sandstone	ltgy	silty; argillaceous; calc tight						silt
2340					fragments as well as qtz						sand qtz
					grains; fair to poor lithic sorting						calc frags
					subangular; micaceous, fr dolomite						argillaceous mat
		90	shale	mod brngy	as above						

in dolomite infilling fractures

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2340		90	shale	Lt gy	As above							
2350												
		10	siltstone	Lt gy/ Lt brn	sandy; very argillaceous pt calc; calcareous fr. w/ rounded quartz		tight				silt sand argil and glauc calcite	30
					tr. carbonaceous							
		tr	dolomite	brn	pt ca; silty thin laminae							
2350		85	shale		As above.							
2360												
		5	argillaceous sandy siltstone		As above							
		10	sandstone.	Lt gy pnk	angular; moderately sorting; soft fragments; glauconitic argillaceous inclusions. Some fairly clean sandstone ~~Interbedded~~ with trace of poorly ~~to~~ moderately ~~well~~ tight						quartz buff pyrite argil mat	10
		±	silty dolomite	brn								
2360		85	shale		As above							
2370												
		5	argillaceous sandy siltstone.		As above.							
		10	sandstone.		As above tr pyrite as above a carbonate filled fracture		tight					
		tr	anhydrite.									
		65	silty dolomite	brn								

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2370		90	shale	gy	as before						shale	100
2390					micaceous - fish bones! Tr pyrite!							
		10	sandstone	gy	v fine grained - silty well bonded - sub angular - fair sorting calcite grains dolomitic						quartz chert dolomite argillaceous mat	10
		tr	anhydrite									
2390		90	shale		as before - plant fragments?						shale	100
2400												
		tr	anhydrite									
		10	siltstone	lt gy	micaceous, argillaceous calcite						quartz argil mat dol	10
		tr	dolomite	brn	xln						dolomite	100
2400		90	shale		as before						shale	100
2410												
		10	siltstone	lt gy med gy	as before						quartz dol arg mat	10
		VVR	anhydrite	white	fracturing							
		tr	dolomite									
2410		ES	shale		as previously, micaceous dolomitic						shale	ES
2420		tr	dolomite	lt gy							dolomite	100
		VVR	anhydrite	white lt gy	fracturing - along bedding planes & fractures							
		10	siltstone		as previously core contains considerable amount of sand size grains white fine grained dolomite						quartz micaceous argil mat dol	10

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2420		55	shale		as before						shale	100
2430											dol	
		5	siltstone		as before						qtz	
											mica	
											argil mat	10
											dol	
			anhydrite									
			dolomite	tan	saccosic						dol	100
2430		90	shale		as before						shale	100
2490											dol	
		5	sandstone		sub-angular, poorly sorted, ~~glauconitic~~ micaceous, silty argillaceous, dolomitic, little fragments						quartz	
											mica	
											argillaceous mat	10
											dol	
											little fragments	
			dolomite									
		5	siltstone		as before						qtz	
											mica	
											argil mat	10
											dol	
2490		95	shale	med-dk gy-gy brn	as before						shale	100
2450											dol	
		5	siltstone	dk gy	as before						qtz	
											mica	
			dolomite								argil mat	10
											dol	
2450		100	shale	med-dk gy-gy brn	as before						shale	100
2460											dol	
		tr	anhydrite		along bedding planes & fractures							
		tr	dolomite									
		tr	siltstone		as before							
		<5%										

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2960		85	shale	med gy	micaceous; blky						shale	100
2970											dolomite	
		10	siltstone	med gy	sandy, argillaceous						quartz	
					micaceous;						purite	tr
					pyritic, dolomitic						dolomite	
											silica	
		tr	anhydrite								argil mat	10
		5	sandstone		silty, argillaceous		tight				qtz	
					glauconitic, pyritic						rock frags	
					dolomitic						argil mat	10
											dol	
											pyrite	tr
											glauconite	
		tr	~~limestone~~ dolomite	tan	~~organic~~ v fine grained							
2970												
2980		90	shale		as above						= above	
			dolomite									
		10	sandstone		as above						= above	
			anhydrite									
2980		85	shale		As above						silty	100
2990											dol	
		15	sandstone		poorly sorted, lithic						qtz	
					As above						lithic	
			dolomite								dol	
											argil mat	10
		5	siltstone		As in 2960-2970						qtz	
											argil mat	10
			anhydrite								dol	
											mica	tr
2990		85	shale		As 2980-2990							
3000												
		5	siltstone									
		10	sandstone									
		tr	dolomite									
			anhydrite									

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03
2500		tr	shale	mdgy	micaceous ; v sl dolomitic						shale	100	
2510											mica		tr
											calc		
		10	sd ls		quartzose ; argillaceous,						quartz		15
					but angular fine						frosted		
					sorting ; ~~fine~~						argil mat	10	
					~~fine~~ ; ~~dirty~~ some rock						dol		
					fragments slightly dolomitic						sh lith fragments		
					v fine grained - can may								
					be glauconitic								
		<5	dolomite	lim.	v. fine grained						dol	100	
2510		90	shale		as before								
2520													
		10	sandstone		as before								
		tr	anhydrite	white & brown, translucent									
		tr	dolomite	lim.									
2520		50	shale	mdgy	micaceous, v sl dolomitic						shale	100	
2530											mica		
											dol		
		10	shale	brn/gy	v sl dolomitic						shale	100	
					disintegrates in						dol		
					acid to rock flour								
					w/ veins of recrystallized								
					waxy lustrous appearance								
					red & orange mineral grains.								
		5	siltstone	buff	sandy, argillaceous glauconitic calcareous						qtz		
					orange red mineral grains						argil mat	30	
											dol		
		5	sandstone		As 2500-2510						qtz		15
											lith fragm		
		tr	dol.	lim.							argil mat	10	
											dol		
		tr	anhydrite										
2530		95	shale		as 2520-2530						shale	100	
2540											dol		
											mica		
		tr	anhydrite										
		10	Sandstone		as 2500-2510						qtz		20
					somewhat coarser grained & poorer sorting						sh frags		
											argil mat	20	
											dol		
		tr	dolomite										
		5	siltstone		~~as 2500-2510~~ as 2520-2530 some of it is somewhat siliceous						qtz		30
											argil mat		
											dol		

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2540			Lst.		as 2530-2540						mud	100
2550					anhydritic in fractures						lt	
		fr	dolomite	brn	vf silty, sl micac						micac	
											dk	5
			Interbedded								silt	
		fr	sandstone		as 2500-2510						mica	
											qtz	
											anhy	10
											dk	
											lithic	
		fr	siltstone	Gray	sandy argillaceous micaceous dolomite				vsl		qtz	
											anhy	10
											lithic	
											shale	100
2560		fr	shale		as 2520-2530						dol	
2570					vsl calc dolic argillaceous laminae with thin interbeds of						dk	70
		fr	silty sandy dolomite	brn							qtz	
		fr	sandstone		quartzose, lithic feldspathic; micaceous pyritic, calc argillac, no porosity vsl dolomitic vfgr - mdgrained	fluor	light				quartz rock fragment mica dk	
2580		fr	dolomite	brn	silty						dk	75
2590		s	sandstone		as 2550-2560						silt dolic quartz calc frag mica dk	
		95	shale		as before						shale dk mica	100

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2570			shale	mdgy	carbonaceous, abundant black carbonaceous plant fragments, fissile with smooth conchoidal fractures; ankyritic cement along some fissility planes; fissility planes dip from 30 - 45°.						shale mica anhydrite	100
2590		85	shale	mdgy	- as above						shale mica anhydrite	100
2600			interbedded									
		15	siltstone	lgy	slightly argillaceous with black carbonaceous laminae; finely laminated thin laminae and bedding, slightly micaceous, fissility in some part of unit dips same (slightly - from 40 - 60°.						qtz mica argillaceous mat	10
2600		85	shale		as before							
2610												
		15	siltstone		as before							
2610		85	shale		as before							
2620												
		5	siltstone		as above							
		10	sandstone	lgy	v fine grained, lithic micaceous, quartzose, moderately sorting, sub angular to sub rounded						quartz lithic mica	
2620		95	shale		as 2570-2590						shale	100
2630												
		5	siltstone		as 2590-2600						qtz mica argil mat	10

from core 2574-2585

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2630		55	shale		as before						shale	100
2640												
		10	siltstone		as 2590 - 2600						qtz mica argil mat	10
		5	~~sandy~~ sandstone		as 2610 - 2620 v fine - fine grained lith: musc, qtz, chert, arg, ~~arg~~ cht arg lts - sil carb v sl dolomitic tr pyrite	fair					qtz lithic mica dol argil mat	10
~~2650~~												
~~2650~~												
2640		75	shale		as above						shale	100
2650												
		10	siltstone		as 2590 - 2600						qtz mica argil mat	10
		15	sandstone	ltgy	as 2610 - 2620 somewhat coarse grained tr pyrite	fair					qtz lithic mica dol argil mat	10
2650		65	shale		as above						shale	100
2660												
		20	sandstone		as above 2610-2650						qtz lithic argil mat dol mica	10
		15	siltstone		as above 2590-2600						qtz argil mat mica	10
2660		75	shale		as above						shale	100
2670												
		25	siltstone		as above						qtz, argil mat mica	10

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2770		80	shale		as above						shale	100
2680												
		20	siltstone		as above						qtz lithic argil mat	10
2690		80	shale		as above						shale	100
2700												
		20	sandstone	lt gy	qtz subrnd vari lithic fragments, poorly sorted micaceous, pyr angular to sub rounded. tr pyrite, tr glauconite v. sl dolomitic v fine - fine grained	light					qtz lithic argil mat micaceous dolomite	15
2690		80	shale		as above						shale	100
2700												
		20	sandstone		as 2680-2690	light					qtz lithic argil mat micaceous dolomite	15
2700		60	shale		as above						shale	100
2710												
		40	sandstone		as 2680-2690	light					qtz lithic argil mat micaceous dolomite	15
2710		75	shale		as above						shale	100
2720												
		25	sandstone		as 2680-2690						qtz lithic argil mat micaceous dol	15
2720		100	shale		as above						shale	100
2730					trace of anhydrite							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2730		95	shale		as above						shale	100
2740					tr. of anhydrite							
		5	sandy siltstone		quartzose micaceous some dk. & lithic sand grains, argillaceous						quartz lithic argillaceous mica	15
											shale	100
2740		90	shale		as above							
2750												
		5	siltstone		gritty, argillaceous micaceous, pyrite, finely laminated						qtz dk. lith. arg. mica pyrite	15
		5	sandstone		as 2680-2690	light					qtz lithic argill mat mica	15
											shale	100
2750		85	shale		as above							
2760												
		10	siltstone		as above - 2740-2750						qtz argil mat mica	15
		5	sandstone		as 2680-2690	light						
											qtz lithic argil mat mica	15
											shale	10
2760		80	shale		as above							
2770												
		20	siltstone		as 2740-2750 dominantly quartzose but some shale fragments present						qtz argil mat mica pyrite lithic	15 / tr

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2770		70	shale		as above						shale	100
2780												
		20	siltstone		as above 2760-2770						qtz argil mx lithic pyrite mica	15 tr
2760		90	shale		as above + anhydrite						shale	
2790												
		10	siltstone		as above						qtz argil mx mica	15 15
		10	sandstone		as 2690-2730						qtz lithic argillaceous mica	15
2790		60	shale		as above						shale	100
2800												
		30	siltstone		as above						qtz argil mx mica lithic	15
		10	sandstone		as 2690-2730						qtz lithic argillaceous mica	15
2800		65	shale		as above						shale	100
2810												
		25	siltstone		as above						qtz argil mx lithic mica	15
		10	sandstone		as 2690-2730						qtz lithic argillaceous mica	15

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DEPTH	QUALITY		ROCK NAME	☐WET ☐COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
											shale	100
2910		85	shale		as before							
2920											qtz.	
		10	siltstone		as before						qtz. lithic sil mat	15
		5	sandstone		as before	fair						
											qtz.	
											lithic sil mat	15
											shale	100
2930		95	shale		as above interbedded							
2940												
		10	siltstone		as above						qtz. lithic sil mat	15
		5	sandstone		as above though some is quartzitic coarse grained	fair					qtz. lithic sil mat	15
											shale	100
2950		95	shale		as above							
2960												
		10	siltstone		quartzitic; sandy with black qtz & lithic sand size grains; argillaceous dolomitic cement						qtz. lithic sil mat dol	15
											shale	100
2970		90	shale		as above							
2980												
		10	siltstone		as above 2930-2950						qtz. lithic sil mat dol	15
		90	sandstone	light brown	lithic, argillaceous very fine grained, calcitic, dolomitic cement; to glauconitic to pyritic, some coarse grained black fragments	fair			light		qtz. lithic sil mat dol	15

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2650	75		shale		as before						shale	100
2660					tr anhydrite						dol	
					as thin plates							
		15	siltstone		as 2630 - 2640						qtz	
											argil mat	15
											dol	
											siltst	
		10	sandstone		siltst, argillaceous, v fine - med grained, poor sorting, subangular	fair					quartz	
											siltst	
											argil	15
											dol	
2660	90		shale		as before						shale	100
2670					& anhydrite - infilling fracture						dol	
	5		siltstone		as 2630 - 2690						qtz	
											argil mat	15
											dol	
											siltst	
	5		sandstone		as 2550 - 2660						qtz	
					tr glauconite						siltst	
											argil	15
											dol	
2670	80		shale		as above						shale	100
2680					tr anhydrite plates						dol	
	20		siltstone		as 2630 - 2640						qtz	
											siltst	
											argil mat	15
											dol	
2680	80		shale		as above						shale	100
2690					plates of anhydrite infilling fractures						dol	
	20		siltstone		as above						qtz	
											siltst	
											argil mat	15
											dol	

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
2890		60	shale		as above w/ siltstone						shale ss	100
2900												
		40	siltstone		as above w/ shale						silt shale ss	
											coal shale ss	10
2900		60	shale		as above slightly fissile						shale ss	100
2910												
		40	siltstone		as before						qtz lithic argil mat dol	60
2910		75	shale		as above						shale dol	100
2920												
		25	siltstone		as before						qtz lithic argil mat dol	15
2920		30	shale		as above						shale dol	100
2930												
		20	siltstone		as before						qtz lith. argil mat dol	15
		50	sandstone	blgy	lith - poly sorted argillaceous, slty glauconite, salty v fine - med grained calc cemented mica micaceous	tight					qtz argil mat dol lithic mica	15
2930		90	shale		as above w/ siltstone plates						shale dol	100
2990												tr
		50	sandstone		as 2920 - 2930 w/ glauconite						qtz argil mat dol lithic mica	15
		20	siltstone		as before w/ pyrite						qtz lithic argil mat dol	15

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY WET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
											Lith	100
2940		25	shale		as before							
2950		75	siltstone		as before	tight					qtz arg mod dol mica lithic	15
2950 2960		60	siltstone		argillaceous, sandy- qtz & lithic, fr micas, dolomite cmtd, fr class cgrsly crystalline quartz sandstone interbedded w/ siltstone	tight					qtz lithic argil mod dol mica	10
		40	shale		as before fr carbonate + plant fragments						shale	100
2960 2970		60	shale		as before						shale	100
		20	siltstone		as 2950-2960 fr glauconite						qtz argil mod lithic dol mica	15
2970 2980		80	shale		as before						shale	100
		20	siltstone		as 2950-2960						qtz argil mod lithic dol mica	15
2990 2990		75	shale		as before						shale	100
		20	siltstone		as 2950-2960						qtz lithic argil dol	15
		05	sandstone		lithic, poorly sorted, argillaceous, silty, fr glauconite	tight					qtz lithic argil dol	15

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
											shale	100
2990		70	shale		as before							
3000											qtz	
		15	siltstone		as 2950 - 2960						lithic	
					plant fragments						argil	15
											dol	
											mica	
											qtz	
		15	sandstone		as ~~2950 - 2960~~ 2980 - 2990	tight					lithic	
					to chalcopyrite						argil gnd	15
											dol	
											mica	
											shale	100
3000		75	shale		as before							
3010												
		15	siltstone		as 2950 - 2960						qtz	
											argil mat	15
											dol	
		10	sandstone		as 2890 - 2900	tight					qtz	
											lithic	
											argil mat	15
											dol	
											mica	
											shale	100
3010		60	shale		as before							
3020					to anhydrite							
		30	siltstone		as 2950-2960						qtz	
											lithic	
											argil mat	15
											dol	
											mica	
		10	sandstone		as 2980 - 2990	tight					qtz	
					as ~~2890 - 2900~~						lithic	
					~~tight~~						argil mat	15
					some silica cement						dol	
											shale	100
3020		70	shale		as before, to anhydrite							
3030												
		20	siltstone		as 2950 - 2960						qtz	
											lithic	
											argil mat	15
											dol	
											mica	
		10	sandstone		silty, argillaceous quartz lithic, some siliceous cement as well as dol						qtz lithic argil mat dol	15

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DEPTH	QUALITY		ROCK NAME	☐WET ☐COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3030		60	shale		as before						shale	100
3040		50										
		35	siltstone		as 2950-2960						qtz	
											argil mat	15
											lithic	tr
											dol	
		15	sandstone		as 3020-3030						qtz	
											lithic	10
											argil mat	15
											dol	
											& silica	
3040		60	shale		as before						shale	100
3050												
		40	siltstone		sandy, argillaceous dol cement & micaceous lithic						qtz argil lithic dol	15
		15	sandstone		quartzose clear coarsely crystalline, argillaceous & lithic, siliceous cements				light			
3050		80	shale		as before						shale	100
3060												
		20	siltstone		as 3040-3050						qtz	
											argil mat	15
											lithic	
											dol	
											micas	
3060		30	shale		as before						shale	100
3070												
		70	siltstone		sandy — qtz & lithic, argillaceous, to micaceous dol cement, to chalcopyrite						qtz lithic argil mat dol micas	15

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3070		30	shale	med-dkgy	as before						shale	100
3080		50	siltstone	med gy	sandy - qtz & lithic, argillaceous, dol cemented, micaceous & pyritic						qtz lithic argil dol	15
		20	sandstone	med gy	f-m, argillaceous, calc cement, silty, poor-mod sorted, sub angular to sub rounded v. fine - med grained, lt glauconitic, tr pyrite. Some of sand is coarser clastics - less argillaceous & less lithic material & may contain some siliceous cement	light					qtz lithic argil mod micac dol	50 20
3080		30	shale		as above							
3090		50	siltstone		as above							
		20	sandstone		as above							
3090		90	shale		as above							80
3100		45	siltstone		as 3070 - 3080							
		15	sandstone		as 3070 - 3080							
3100		95	shale		as above						shale	100
3110		15	siltstone		sandy, argillaceous micaceous, dol cement						qtz argillaceous lithic dol	70
3110		85	shale		as above						shale	100
3120		20	siltstone		sandy - qtz & lithic, argillaceous, micaceous, dol cement, pyritic & glauconitic						qtz lithic argillaceous micac dol	70

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3120		50	shale	med-	[illegible]						shale	100
3130				dk gy	[illegible]							
					[illegible]							
					[illegible]							
					[illegible]							
					[illegible]							
		10	siltstone	dk gy	sandy, argillaceous	tight					qtz	
					calcareous, micaceous						lithic	
											argill	5
											sand	
											mica	
3130		70	shale		plant fragments							
3140												
		30	siltstone		as above							
3140		60	shale		[illegible]							
3150					embedded siltstone &							
		40	siltstone		shale as previously.							6
3150		70	shale		as embedded siltstone							
3160					& shale as above							
		30	siltstone		small chips of coal?							
					very laminated with							
					sample.							
3160		60	shale									60
3170					as above							
		25	siltstone									35
		15	sandstone		very well sorted, argillaceous						qtz	
					silty, lithic sub						lithic	
					arenite - subrounded						argillaceous	20
					to subangular, micaceous						ls	
					to calcareous,						mica	
					very fine - medgrained							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3170		60	shale		as in 3150 - 3170							
3150												
		40	siltstone									
3150		65	shale		as in 3150 - 3170							
3170												
		35	siltstone		as shale.							
			sandstone		as 3150 - 3170							
3100		50	shale		interbedded with shale predominant							
3200												
		20	siltstone									
3200		70	shale		Much less siltstone & shale present may							
3210												
		10	siltstone		approximate carry both the siltstone & shale. Trypsite in siltstone							
3210		95	shale		Very minor siltstone							
3220												
		5	siltstone									
			calcareous									
3220												
3230		95	shale		as above							
		5	siltstone									
3230		95	shale		Interbedded as above							
3290												
		5	siltstone		trypsite							
3290		75	shale								shale	100
3250					interbedded shale, sandstone						qtz	
		20	siltstone		siltstone						arg	15
					to sandstone						lithic	
		5	sandstone		trypsite				light		dol	
											qtz	
											lithic	5
											arg	
											dol	20

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DEPTH	QUALITY		ROCK NAME	☐ WET / COLOR / ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3250		85	shale		interbedded as above							
3260												
		25	siltstone									
		10	sandstone									
3260		85	shale		interbedded as above							
3270					& anhydrite							
		15	siltstone									
3270		85	shale									
3280												
		15	siltstone		plant fragments in siltstone, finely laminated							
3280		90	shale									
3290												
		10	siltstone		finely laminated							
3290		95	shale		shale very predominant							
3300												
		5	siltstone									
3300		85	shale		some plant fragments in the siltstone							
3310					anhydrite filling fractures							
		15	siltstone									
3310		100	shale	dkgy	micaceous & dolomite anhydrite plates						shale	100
3320												
		100	siltstone	medgy	argillaceous, silty, some micaceous etc dolomite cement	tight					silt to lithic argillaceous micaceous dol	20
3320		95	shale		as above							
3330												
		5	siltstone									
3330		90	shale		as 3310 - 3320							
3340												
		10	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
3390		75	shale								
3395											
		25	siltstone		Trace pyrite						
3395		60	shale		Interbedded shale						
3400					siltstone						
		40	siltstone								
3400		90	shale		Abrupt reduction in						
3410					amount of siltstone						
		10	siltstone		present.						
3410		80	shale		Plant fragments in						
3420					siltstone. Interbedded						
		20	siltstone		Occasional stringers or thin						
					laminae of shale						
					Tr glauconite						
		Tr	very argillaceous		silty sandstone		fair				
3420		90	shale		Plant fragments in						
3430					light shale siltstone						
		10	siltstone		to glauconite						
3430		95	shale		Practically entire						
3440					sample is shale						
		5	siltstone		to pyrite						
3440			Missing								
3450											
3450		90	shale		Interbedded to light						
3460											
		10	siltstone								
3460		98	shale		In lower silty detrital						
3470					it has plant fragments						
		2(?)	siltstone		also						

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3470		55	Shale		Interbedded - minor?							
3480												
		15	siltstone		Interbedded							
		30	interbedded		as above		light					
3490		90	shale		Minor siltstone thin							
3500					shale - abrupt							
		10	siltstone	Hor	increase							
				- Horn	very argillaceous siltst.							
3500		85	shale		Interbedded as							
3510					above							
		15	siltstone									
3460		85	shale		as above							
3470												
		15	siltstone									
3470		90	shale									
3480												
		10	siltstone		to glauconite							
3490		75	shale	mod dk gy	micaceous, v. sl. calc.						shale	100
3500				v dk gy	plant fragments common						clay	
		25	siltstone	mdy	finely laminated in sm		light				micas	
					lenses.							
					sandy - little qtz,						qtz	
					argillaceous, v sl calc.						silt	20
					- light; micaceous						clay	
					to glauconite grains						micas	
					Plant fragments in						glauconite	
					siltstone also						grains	
					finely laminated							
					May be less siliceous cement							
3500		75	shale		Interbedded shales							
3510					& siltstones as above							
		25	siltstone									
3500		95	shale		Interbedded as above							
3510												
		5	siltstone									
3510		90	shale		Interbedded as above							20
3520												
		10	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
3520		75	shale		Fr. Fissile shale						
3530					& siltstone						
		25	siltstone								
3530		95	shale		Finely sandy silty						
3540					shale						
		5	siltstone								
3540		95	shale		Fr. Subplanate						
3550											
		5	siltstone								
3550		95	shale		Partially entirely						
3560					shale						
		5	siltstone								
3560		95	shale		Gr. clay.						
3570					Siltstone may be coarse						
		5	siltstone		& interbedded silty shale.						
3570		95	shale								
3580											
		5	siltstone								
3580		95	shale								
3590											
		5	siltstone								
3590		95	shale								
3600											
		5	siltstone								
3600		95	shale								
3610											
		5	siltstone								
3610		85	shale		Increased large chips of						
3620					clean gtz were present - finely						
		15	siltstone		fractured filling?						
3620		75	shale		More clean to milky qtz						
3630					chips - unfilling fractures?						
		25	siltstone		to pyrite						

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3630		85	shale	dk gy	as above with thin lignite stringers, fr pyrite						shale	100
3690		15	siltstone	med gy	nodules, silty with siltstone, argillaceous, micaceous, thin laminations						quartz	
					Ankerite - white to brown translucent - fracture filling & along bedding planes						argil mat	20
					Some plant fragments in siltstone						mica	
											dol	
											pyrite	tr
3690		95	shale		Several siltstone splitsfrom							
3750		5	siltstone		dk micaceous shale with some ankerite along fracture & bedding planes.							
3750		90	shale		As above							
3760		10	siltstone									
3760		80	shale		As above							70
3770		20	siltstone									
3770		80	shale		As above.							
3780		20	siltstone									
3780		75	shale									75
3790		25	siltstone		Tr glauconite						quartz, lithic	
											argil	20
											dol	
											mica	
3790		75	shale		As above							
3800		25	siltstone									
3800		95	shale		Much less silt							
3810		5	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
3710		10	shale		Lying above thin shale dominates drilling rate in this interval. Over sandstone						
3720		15	siltstone								
		30	sandstone	light tan gry	silty, very argillaceous, poorly sorted - V fine to med grained, occasional quartz pebble with some chert & the grains angular & well rounded in light chloritic cement	light					quartz 15% lithic arg. 25%
3720		65	shale								
3730		5	siltstone								
		30	sandstone		to glauconite						
3730		20	shale		Sandstone becoming less prominent						
3740		10	siltstone								
		10	sandstone								
3740		75	shale		Interbedded as above						
3750		20	sandstone								
		5	siltstone								
3750		60	shale								
3760		30	sandstone		to pyrite						
3760		80	shale		Interbedded as above						
3770		15	sandstone								
		5	siltstone								
3770		85	shale		Sandstone becoming less important						
3780		10	siltstone								
		5	sandstone								

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3760		90	shale		Ti bioturb sandstone parallel Back T shale siltstone sequence							
3790												
		10	siltstone									
3790		95	shale									
3800												
		5	siltstone		Ti pyrite							
		Tr	sandstone									
3800		75	shale		Increase in siltstone & trace of sandstone							
3810												
		25	siltstone									
		Tr	sandstone									
3810			Missing									
3820												
3820		70	shale		as before						shale	100
3830												
		30	siltstone	lt to med gy	sandy; argillaceous to dol cement; to glauconite some lithic material - silt V coarse sized micaceous						qtz silt lithic dol mica	20
			tr sandstone									
3830		75	shale								shale	100
3840												
			~~siltstone~~									
		25	sandstone		lithic, silty, argillaceous to glauconite, tight dol cement V fi micaceous. poorly sorted, angular to sub angular	tight					qtz lithic (1-gr) do mica	20

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3540		70	shale		shale, sandy, silty in part, silty, argillaceous, sandstone interbedded						shale	100
3550												
		15	siltstone								qtz fithic argil dol	20
		15	sandstone									
											qtz fithic argil dol	20
3550		70	shale		As above except less sandstone & more siltstone							
3560												
		25	siltstone		One pelitic fossil? or possibly just a pyrite concretion							
		5	sandstone									
3860		60	shale		Only a trace sandstone but siltstone more abundant							
3870												
		40	siltstone									
		+	sandstone - one chip V coarse grained									
3870		80	shale									
3880												
		20	siltstone		Plant fragments in siltstone							
3880		70	shale		As above							
3890												
		30	siltstone									
3890		70	shale		As above							
3900												
		30	siltstone		appears finely laminated							
3900		90	shale									
3910												
		10	siltstone									
3910		90	shale									
3920												
		10	siltstone		tr. chalcopyrite							
		tr	sandstone		some oil shows but not all of good enough to cause drilling break							

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
3920		100	shale									
3930												
		35	sandstone		quartzose, lithic, biotitic, argillaceous subfeldspathic - subarkose; poor to fair sorting; dilaceratic to siliceous; basal chips - partially ferruginous cement; thin sandstone chips	light					qtz = arg-il lithic dol	20
		10	siltstone		quartzose, with some black quartz grains, v.f. sandy; argillaceous, dol cement.	light					qtz arg-il lithic dol	20
3930		20	shale		Interbedded as above							
3940												
		10	sandstone		Tr calcitic							
		10	siltstone									
Note	Drilling rate would seem to suggest that this should be a much thicker than was seen to be present.											
3940		70	shale		some waxy pyrite concretions as well as scattered pyrite. Plant fragments in shale						Mostly shale with fragments of sandstone from above	20
3950												
		15	sandstone									
		15	siltstone									
		tr	Coal		several chips							
3950		50	shale		As above							
3960		40										
		25	sandstone		% sandstone is difficult to estimate as samples may not truely indicate complexities							
		50	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
3960		20	shale		Much lighter in sandstone in this sample than previously although on drilling rate picture 2nd chert should certainly have arrived						
3970		70	sandstone								
		10	siltstone								
3970		60	shale		Lt grey/tr						
3980		25	sandstone		Lt glauconitic	tight					
		15	siltstone		Much less sandstone in sample although drilling rate not noticeably faster - probably due to						
3980					Sandstone very well cemented as evidenced by coarse quartz grains						
3980		90	shale		Sample wrapey entirely shale until 4 ft's worth of sandstone. Drilling rate	tight					
3990		5	sandstone		distinctly faster but uniformly tight - may mean bit got slightly worn out & this the hard drilling caused by much sandstone & siltstone being present						
		5	siltstone								
3990		75	shale		Siltstone more abundant than sandstone.						
4000		20	siltstone								
		5	sandstone								
4000		85	shale		Shale becoming more abundant again & drilling rate picking up steadily - be getting back into shale sequence with thin siltstone interbeds						
4010		10	siltstone								
		5	sandstone								

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4010		85	shale	dkgy	micaceous, ti						shale	100
4020					glauc, plant							
					fragments							
		15	siltstone	lt-med gy	quartzose, lithic fragments argillaceous, some sand size grains, different						quartz lithic argil dol	tr 20
4020		95	shale		Interbedded as							
4030		5	siltstone		above							
4030		95	shale		tr pyrite - concretions disseminated							
4040		5	siltstone									
			one chip fissility lam dolomite with orange iron oxide stain pitted fracture									
			tr sandstone		- gray just leaving from above							
4040		90	shale		Interbedded as before							
4050												
		10	siltstone									
4050		90	shale		tranhydrite present							
4060												
		10	siltstone		There is some clear quartz appearing infilling fractures in siltstone							
4060		95	shale		clear white gyp - fracture							
4070					infilling							
		5	siltstone		tr pyrite							
4070		90	shale									
4080												
		10	siltstone									
		tr	silty argillaceous		poorly sorted lithic sandstone							

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DEPTH	QUALITY	ROCK NAME	☐ WET / COLOR / ☐ DRY	REMARKS: SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
										Shale	100
4050	70	shale		thin carbolitic platelets							
4090											
	30	silty argillaceous siltstone	med	dolomitic from previous	light						
			& mid dk gy	siltstone						qtz lithic argillaceous dol	20
		(in poorly sorted argillaceous silty sandstone)		sandy, argillaceous, dol cemented, sand sized particles - qtz & lithic a red brown platy mineral? precipitation siltstone & also some in shale, pieces of some kind, sand & pebbles - v. fine & congl. sized subangular & sub rounded							
		dk gy w/ blk & red specks									
4090	50	shale		As 4080 - 4090							50
4100											
	50	siltstone									
4100	50	shale		some v. coarse ground qtz grains present - sand sized very poorly sorted & rock so much argillaceous material & dol cement difficult to get a good idea of how much is sand & how much silt							
4110											
	50	siltstone									
4110	60	shale									
4120											80
	40	siltstone		In glauconite							
4120	60	shale		some of siltstone has sandy texture but not all of it							
4130											
	40	siltstone									
4130	60	shale		Less sandsize material in siltstone							
4190											
	40	siltstone		Some siltstone appears to be finely laminated						qtz lithic (micaceous) argil dol	20

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4140		60	shale		siltstone to v fine sandstone						qtz	
4150					pyrite and cry gains -						argil	20
		40	siltstone		tr qtz & lithic						lithic	
			(some of it		dol cement						dol	
			may be shale) to									
			silty v fine grained									
			sandstone)									
4150		40	shale		(sandstone - v fine to					Scattered qtz		
4160					med grained, quartzose					lithic		
		50	siltstone		lithic, dol cement,					dol		
		10	sandstone		silty, v argillaceous					argil	20	
					to pyrite, tr glauconite							
					subangular							
4160		60	shale		plant fragments in							
4170					siltstone							
		40	siltstone									
4170		75	shale		Interbedded as before							20
4180					with shale becoming							
		25	siltstone		more prominent							5
		tr	sandstone									
4180		90	shale		less siltstone							
4190												
		10	siltstone									
4190		90	shale									
4200												
		10	siltstone									
4200		90	shale									
4210												
		10	siltstone									
4210		90	shale		tr sandstone							
4220												
		10	siltstone									
4220		35	shale		several chips of dense							5
4230					conglomeratic siltstone -							
		15	siltstone		probably fracture filling?							2

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT .01
4230		90	shale		tr coaly cont'd						
4240					tr silt laminations						
		10	siltstone								
4240		90	shale		carbonaceous plates						
4250											
		10	siltstone		tr lithic quartzose sli. argillaceous calcitic						
4250		85	shale		tr glauconite						
4260											
		15	siltstone								
4260		90	shale								
4270											
		10	siltstone								
4270		50	shale		Caved of sand size material & lithic material causes considerably in various chips of the sample						
4280											
		20	siltstone								
4280		80	shale		siltstone, v sl sandy & lithic, dol cement =						qtz 30
4290											lithic 30
		20	siltstone		well consolidated;						argil dol mica
					shale fragments in bad						
					shale siltstone						
					some chunks clean qtz - fracture						
					fillings						
					tr pyrite						
					tr carbonaceous						
4290		80	shale		several shale pebbles -						
4300					caving?						
		20	siltstone								
4300		80	shale		pyrite concretions						
4310					in shale						
		20	siltstone		tr poorly sorted quartzose						
					lithic conglomerate						
					tr coal - several chips						
4310		90	shale		tr of coal						
4320											
		10	siltstone								

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4320		20	shale		shale fragments in fair intergrid to pyrite & calcite							
4330		20	siltstone		One chip of siltstone also has one edge of chip crystalline qtz veins showing preferentially into a fracture. Difference between such fractures completely infilled with calcite and porosity would result.							
4330		75	shale		some chips of siltstone shale							
4340		25	siltstone		Several chips of coal staining due to mud additive							5
4340		75	shale		fr coal							
4350		25	siltstone									
4350		40	shale		Siltstone predominant in sample	F	P				qtz	
4360		60	siltstone		some crystalline qtz fracture filling staining crystals in some chips a water indefinite formation due to contamination of fluid mineral. May be irregular or fracture porosity present.						lithic argil do	20 (12)
4360		10	shale									10
4370		90	siltstone		Vein qtz - or fracture filling or stg staining in anhydrite							18
4370		40	shale		still some chips clear qtz							
4380		60	siltstone									
4380		10	shale		Anhydrite white in fracture filling							
4390		90	siltstone		also clear qtz from veins or fractures							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4390		80	shale		in anhydritic calc							80
4400												
		20	siltstone									20
4400		75	shale		anhydritic plates							
4410					Occasional dense qtz							
		25	siltstone		veins in siltstone							
4410		30	shale		siltstone, becoming							
4420					less abundant							
		70	siltstone		some qtz veins in siltstone							
4420		90	shale		Tr anhydritic							
4430					tr pyrite							
		10	siltstone		plant fragments in shale							
4430		70	shale								shale	100
4440					tr glauconite & pyrite							
		30	siltstone		Plant fragments						qtz or siltstone lithic	10
											dol	
4440		50	shale									
70												
		60	shale:	Hvy	trace anhydritic and						shale	100
					dolomitic silt some							
		30	siltstone		disseminated pyrite.						silt. st.	
					trace of pink euhedral						qtz	
					qtz fracture filling.						lmst.	
		10	Sandstone		Sandstone & siltstone are						qtz	
					tight dolomite cement in						lithic	
					sand siltstone.						~~sandy~~ calc	
4470 -		50	shale		as above, trace plant						as ab	
80		30	siltstone		material and glauconite						as ab	
		20	sandstone		in >>. dol cmt.						as above	
4480 -		70	shale.		as above							
4500.		20	siltstone									
		10	Sandstone									
4500		40	shale		as above. Sandstone is very						shale	100
10		20	siltstone		fine grained, mostly qtz						silt	
		40	silty sandstone		fine grained, to salt-rounded grain						any mat.	
					fine lithic. Tight						sand qtz	
											sand lithic	
											silt	
											any mat.	

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4510.		30	shale	dk gy	as above SS is tight-trace							
20		20	siltstone	med gy	as above with quartz fracture							
		50	silty sandstone	med gy	v. silty common							
4520		70	shale		as in 4480-4500.							
40.		20	siltstone									
		10	sandstone									
4540		70	shale		as above trace of							
50		30	siltstone		calcium carb							
4550.		60	shale		as above trace plant							
60		20	siltstone		fragments in shale and							
		20	silty SS		pyrite. Some calc-qtz							
					fracture filling							
4560												
70		70	shale	dk med gy	Thin interbedded shale						shale	
		30	siltstone	med gy	and siltstone, only trace						silt	
					of qtz-lithic sandstone.						arg mat.	
					Trace anhydrite on fractures.						lithic sand.	
					trace dolomite (concretions?)							
4570.		60	shale		as above, increase in							
80		40	siltstone		siltstone							
4580		70	shale		shale and siltstone as above.						as above.	
90		20	siltstone		Sandstone is a grn fine grained						as above.	
		10	qtz lithic S		angular, poorly sorted						qtz sand	
					sub-angular lithic grains						lithic sand.	
					& sub-rounded qtz grains.						arg mat	
					tight						silty	
											dull.	
4590		80	shale		as above. trace sucs							
4600		80	siltstone		only.							
4600.		60	shale		as above SS is tight.							
10.		20	siltstone		trace pyrite.							
		20	qtz lithic SS.									
4610		80	shale		core #3 from 4615							
20.		20	siltstone		4622. consted of shale as							
					above with more interbedded							
					siltstone. Sample ~~extremely~~							
					interval not very reliable.							

I.O.E. STONY 1-50
67.2° — 30' 135° 15'

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4620.		70	shale		as in 4580-90.							
30.		20	siltstone									
		10	qtz lithic ss.									
4630		60	shale		as in 4570-90. shale and						as in 4580-90	
50		40	siltstone.		siltstone as above, very fine-							
					grained sandstone.							
4650-		50	shale		as above.							
60.		50	siltstone									
4660-		50	shale.		the shale and siltstone						shale	90
70		40	siltstone		and sandstone appear to						silt. as ab	
		10	qtz lithic ss.		be slightly bioturbated						sandstone as ab	
4670		50	shale.		trace pink-white qtz frag-						sh as above	
90		40	siltstone		ments in shale. Both shale						siltstone as ab	
					and siltstone are slightly							
					bioturbated							
4690-		50	shale		as above. some slickened						sh as above	
4710		50	siltstone		surfaces on fragments.						siltstone as ab	
4710-		60	shale		as above trace of						as in 4670	
20		40	siltstone		sandstone. Trace dol.						90	
					concretions.							
4720.		80	shale		as above trace plant							
30		20	siltstone		fragments.							
4730		70	shale		as above.							
50		30	siltstone.									
4750		90	shale									
60		10	siltstone									
4760			missing.		not taken							
70												

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4770		65	shale	md gy	shale micaceous siltstone						shale	90
4790.		20	siltstone (dolomitic)	md gy	quartzose sandstone is gy lithic, fr-sht, poorly sorted subrounded grains. Anhydrite						silt sand lithic arg mat.	
		10	gy lithic SS (dolomitic)	ltgy	Hairline fracture as fracture filling in shale; silts & sands fracture all are dolomitic Some anhydrite stringers						sand lithic sand gy silt very mat anhydrite	
		5	anhydrite	brown								
											as above.	
4790		50	shale		shale and siltstone as							
4810.		40	siltstone		above Anhydrite is very						arg'll. mat.	
		10	argillaceous anhydrite.		argillaceous brown gray color, very fine grained. Some white anhydrite as fracture filling.						anhydrite	
											as above.	
4810.		70	shale dolomitic		as above, trace of							
30		30	siltstone, dolomitic		anhydrite							
4830.		50	shale as above		shale and siltstones as							
40		30	siltstone (dol) as above		above. Trace anhydrite							
		20	gy lithic SS.		as fracture filling trace						sand lithic	
					# carbonaceous fragments in shale						sand gy	
					4840-50 not taken.						arg mat	
4840-		50	not taken								silt.	
4850		70	shale (dol)		shale and siltstone							
60		25	siltst (dol)		as above. Thin stringers							
		5	anhydrite.		of anhydrite noted.							
4860		90	shale		as above.						sh.	
70		10	siltstone									
4870		70	shale		as in 4810-30. trace							
80		30	siltstone		anhydrite fracture filling							
4880+		90	shale		trace anhydrite fracture							
4900.		10	siltstone		filling							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
4900.		40	~~silt~~ shale		as in 4850-4900.						
10.		10	siltstone								
4910		50	shale as above		composition of the units						
30		40	siltstone		rock types as above.						
		10	q/g lithic sand	stone	trace Vertically drilled fracture						
					filling and probably as thin						
					laminate also. All lithologies						
					are dolomitic.						
4930-		60	dolomitic q/g lithic	med gy	Poorly sorted silty and argillaceous						sand q/g
40			sandstone.		Angular to sub-rounded						sand lithic.
					silt grain, and lithic grain.						silt
					Dolomite cement, some anhydrite						arg mat.
					present. Trace glauconite &						
					Pyrite. Tight.						silt.
		30	siltstone		silt as above, micaceous,						sand lith.
					dolomitic,						arg mat
					shale is micaceous and						shale
		10	shale.		dolomitic.						
4940.		50	dol. q/g lithSS.		as above. Lithology ~~trace~~						
50		30	siltstone		trace of carbonaceous fragments						
		20	shale.		in micaceous shales. all						
					dolomitic						
4950		70	dol q/g lithSS.		Sandstone predominates.						
60		20	siltstone		Tight as above						
		10	shale								
4960.		40	dol q/g lithSS.		sample is poor with high						
70		40	siltstone.		percentage of shale cavings.						
		20	shale.								
4970.		70	dol q/g lithSS		as in interval 4950-60						
90.		30	siltstone		trace of visible porosity						
		10	shale		Tight. Very slight fluor						
					Yellow						

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY HET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
4990		40	qtz-lith ss/slt		~~Tabular~~ as above						as in fracture	
5000		10	siltstone		Coarse sandstone in interval							
		20	shale		ironstained fracture filling							
					carbonate.							
5000		10	qtz lith sandstone		Sandstone and siltstone as							silt
5010		30	siltstone		above. Shale guild a bit							sand
		60	shale		more micaceous							clay
5010		40	qtz lith sandstone		as in 4990-5000.							
20		40	siltstone									
		20	shale									
5020		20	qtz lith-sandstone		Lithologies remain as above							sand
40		30	siltstone		but shale and siltstone							silt
		40	shale		predominate. at 5030-40							35
					some coarse to very coarse							
					grained and rotted qtz x							
					5%. Base of sandstone (?)							
5040		50	siltstone (dolomitic)		Predominately siltstone and						silt.	
50					shale as above with						qtz sand.	
					minor qtz-lithic SS. as						dolomite and	
					above.						argnet	
		40	shale dolomitic.		as above						as above.	sh
		10	qtz lith SS.		as above							ss
5050		20	siltstone (dol)		Lithology as above							(silt
60		20	qtz lith SS (dol)		some rocky material							sand
		60	shale		trace glauconite in							shale
					the SS and siltstone and pyrite							
5060		20	qtz lith SS.		Lithologies remain as above							R
70		30	siltstone		anhydrite fracture filling							sand
		50	shale									SS
5070		50	siltstone (dol)		Fe stained qtz fracture filling							35
5090		20	qtz lith SS.		common. Trace carbonaceous							qtz
		30	shale		plant fragments in silts							clay

F=IR.

1 to 200 time frame.

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5090.		20	qtz lith SS		as in cntinued							
5100.		30	siltstone		5060–70.							
		50	shale		base of milky qtz contin.							
5100.		50	siltstone (blk)		lithology contined as						as above	
10.		40	sh. bs		above trace carbonate,						as above	
		10	qtz lith SS		and milky qtz.						as above	
5110		50	shale		lithology as above trace							
20		40	siltstone (blk)		carbonate fracture filling							
		10	qtz lith SS									
5120		70	shale		as above, shale is gyb							
30		20	siltstone		micaceous & dolomitic.							
		10	qtz lith SS									
5130		50	shale		as above trace qtz							
(ss)		20	siltstone		qtz lith SS only							
					shale & siltstone remain							
					dolomitic.							
					Zone milky crystalline qtz							
					at 5140–50.							
5140		70	shale	lt gy JJ	Thin bedded shale						shale	
5150					as siltstone and qtz-lith						dk	
		20	siltstone	milky JJ	sand. Remove shale						silt-	
					white crystalline qtz &						sand.	
					probably as fracture filling						dry not	
		10	qtz-lith SS	milky JJ							sand qtz	
											sand lith	
											silt-	
											dry crust.	
5150.		80	shale		as above trace to							
60		20	siltstone		rock interval							
					J							
5160		40	shale		lithology as above, with							
80.		30	siltstone		increase in siltstone and							
		10	qtz lith SS.		qtz stockwork fractures							
					trace carbonate as							
					above							

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
5180		80	shale.		Lt gy in mud matrix							
90		10	siltstone		fine sd in trace amt							
		10	lt gy SS.		fine, subang - subrd							
5190.		50	shale		Fr siltstone and quartzite						shale	
5200		50	siltstone		are lam argillaceous						salt	
											sand	
											fragment	
		20	lt gy VFSS.								of SS'	
			VJ								like SS	
											in salt.	
5200		60	shale		as above broken light							
10		20	siltstone		on fracture							
		20	sandstone									
5210		70	shale		Lt gy as above							
20		20	siltstone									
		10	sandstone									
5220		60	shale		Lt gy as above.							
30		40	siltstone		Laminae in coarser							
		20	sandstone		clastics							
5230		60	shale		as above trace ~~calcite~~ dolomite							
50		30	siltstone		Interval trace of							
		10	sandstone.		fracture filling							
5250		60	shale		as in 5200 - 10. trace							
60		20	siltstone		carbonaceous trace plant							
		20	sandstone.		material							
5260		70	shale		as above in interval.							
70		20	siltstone		5210 - 30.							
		10	sandstone									
5270		50	shale.		as above some dark							
80.		20	silt.		grey shale, that is not							
					dolomitic.							

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5240		70	shale	dk gy	sl. calcareous shale, well						shale	
50					indurated in part						dk gy	
		30	silt-st	dk gy	sandy, with numerous						silt	
					thin stringers white silty						very fine	
					shale, less dolomitic,						sand qtz	
		10	qtz-lith SS	v dk gy	dark gray tone that						and lith	
					indurated.						silt	
											very sandy	
5270		90	shale		no other trace present							
5300		10	silt-stone		in this shale							
5300		90	shale		as above trace of silty							
10		10	silt-stone		materials							
5310		80	shale		as above trace of							
20		20	silt-stone		qtz lith ss only							
5330		20	shale		as in 5230-90 with trace							
40		20	silt-stone		silty & sandstone fill							
		10	qtz lith SS		laminae, fk shale has as							
					pyrite in shale							
5340		90	shale		shale typical Barnett							
50		10	silt-stone		black shale with trace							
60					of pyrite. silty fill							
					laminae.							
					(5340-60 rimed)							
5360		100	shale		as abv, quite silty							
70		30	silt-stone		in part							
5370		90	shale		mechanically shale silt							
80		10	silt-stone		& bit of pyrite in the							
					shale, slightly dolomitic							
5380		50	shale		as abv.							
5400		20	silt-stone									
5400		70	shale		Lithology as above.							
5440		30	silt-stone									

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5410		60	shale	light	shale as above, with some						shale	
40				blk	black shale with specks						silt	
		20	siltstone	and	flecks throughout, massive						arg mst	/
				gry	massive shale, siltstone						sand	
				30	remains as before							
5440		70	shale		siltstone as above, trace							
50		30	siltstone		carbonaceous imprint trace							
					of continuous material.							
5450		50	shale		as in 5410-40							
70		20	siltstone		trace of plant fragments							
					in siltstone							
5470		90	shale		siltstone as above some							
80		10	siltstone		of the black shale contains							
					fragments of plant matter							
5490		80	shale		as above trace plant							
90		20	siltstone		fragments							
5490		90	shale		as above.							
5500		10	siltstone									
5500		80	shale		siltstone as above, trace							
10		20	siltstone		of plant fragments in							
					shale remains.							
5570		90	shale		as above							
30		10	siltstone		trace pyrite throughout							
					shale continues							
5590		70	shale		as above more siltstone,							
610		30	siltstone		trace plant fragments							
					some pyritic crystalline							
					on fracture filling							
5610		80	shale		as above trace plant							
30		20	siltstone		fragments some black							
					pyritic shale							
5580		70	shale		cont'd as above							
5600		30	siltstone		trace anhydrite fracture fillin							

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5560		50	shale	mdy	shale remains micaceous						shale	
70				Hdy	as before, some dark gy						dk	
		50	siltstone.		shale is mainly siltstone						silt	
					in Halquite quartzose, some						very wt	
					argillaceous matrix						10% sand	
5610		70	shale		Lithology as above trace							
20		30	siltstone		plant material cont'd							
5620		60	shale		as above							
30		40	siltstone									
5630		70	shale		as in 5610-20							
50		30	siltstone									
5650		50	shale		as in 5600-10							
70		50	siltstone		argillaceous siltstone							
Feb 8												
5700		70	shale		micaceous shale, dk						shale dk	95
5780												
		30	siltstone		slightly calcareous						silt	
					with veins of gypsum						very wt	
					at most [illegible]						sand	
					some dk [illegible]						dk	
					pelletoid							
5790												
5890												
5890												
5900		70	shale		as above with slight							
5910		30	siltstone		to TR of lithic sandstone							
			TR lithic sandstone									
			pale orange									
			vfgr									
5900		60	shale		as above							
5910		40	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01
5710		70	shale		micaceous dol shale						shale	75
5720		30	siltstone		[illegible] siltstone [illegible]						dol	
					fractures and sandy						silt	
					[illegible]						sand	
					[illegible] common						dol	
					mainly [illegible]							
					[illegible] pyrite?						argil	10
					chert/white qtz fractures							
					filling with qtz pyrite							
											shale	
5720		70	shale		as above						dol	
5730		30	siltstone		some quartz fracture filling						silt	
											sand	
			[illegible] dolomite								argil	
			with bitumen? bad								dol	
			fracture									
											shale	75
5730		35	shale		locally laminated						dol	
5740		.5	siltstone		as above						silt	
					[illegible] anhydrite						sand	
					qtz fracture filling						argil	15
					pyrite concretion?						dol	
					seems to be getting slightly							
					more argillaceous							
			1. brown dolomite									
											shale	75
5740		70	shale		siltstone more abundant						dol	
5750		30	siltstone		again						silt	
					some of siltstone quite						sand	
		5	brown dol with		clean while some of it						argil	15
			[illegible] qtz filled		quite argillaceous						dol	
			fractures		clear qtz [illegible] fractures							
			No 4		5757 - 5770 Rec 6.5'/13'							
					as previously plant fragments						shale	75
5750		80	shale		[illegible] in narrow 1/4"						dol	
5770		15	siltstone		[illegible] in one part of core							
					[illegible] poorly sorted lithic						silt	
		5	sandstone		[illegible] silty & [illegible]						argil	10
			[illegible]		argillaceous [illegible] dol						dol / sand	
			[illegible] at 575									
			may have been								[illegible]	
			[illegible] but not		steeply dipping 45-60°						lithic	
			cored		siltstone & [illegible]						silt	
											argil	20
											dol	

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5710	35		shale		Numerous Plant						shale	95	E	C
5780	15		siltstone		Remants. Little						dol			C
					Detrital sized material									75
					in siltstone						silt			
											sand			
											argil		10-15	
											dol			
5780	70		shale		As below						shale	95	E	C
5790	30		siltstone		More shale in silt						dol			
					Dk chert/opaque in shale									70
											silt			
											sand			
											argil	10		
5790	10		shale		Much higher %						shale			
5820	90		siltstone		Dolstone						dol			C
					As below									70
					Few pellet fractures						silt			
					some calcareous/ chert pyrite						sand			
											argil mud	10		
5820	20		shale		As above									
5830	80		siltstone											
5830	20		shale		As above									
5840	80		siltstone		Dk chert fragments									
					in shale									
			dolomite											
			anhydrite											
5830	10		shale		Dol cemented siltstone						shale	75	C	
5840	90		siltstone		Siltstone is greenish						dol			
														C
											silt		70	
											sand			
											argil	10	C	
5890	10		shale		Few dk inclusions/fractures									
5900	90		siltstone		As above									
					Dk chert fragments									
			dolomite		in									

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5850			Missed									
5860												
5860	90		shale		shale as before						shale dol	75 (95)
5870	10		siltstone		siltstone also as before some clear quartz fracture filling present / Some slickensided surfaces						silt arg sandy dol	10 U 70
5870	10		shale		Calcareous plant fragments in shale/siltstone							(57)
5880	40		siltstone		Slickensided surfaces on some of shale siltstone in question							(29) (9)
5880	75		shale		Qtz fracture filling							(71)
5890	25		siltstone		as before Tr coal							(4.5) (1.5)
			v fine cuttings		Pyrite sphere - concretion or fossil							
5890			Missed									
5900												
5900	75		shale		as before							
5910	25		siltstone		Plant fragments Quartz fracture filling							
5910	60		shale		Mainly as before							
5920	20		siltstone		slickensided surfaces Qtz fracture filling							
					Tr coal							
5920	70		shale		clay embedded qtz fracture							
5930	30		siltstone		filling slickensided surfaces Tr anhydrite							
		Tr	silty sandstone					#, fr				(19)
5930	80		shale		Shale slickensided +						shale dol	15
5940	20		siltstone		more qtz fracture filling						silty sandy arg	70 10

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5940		60	shale		Shiny silt surfaces							
5950		40	siltstone		of fx infilled fractures.							
					Cal shale							
5950		50	shale		Some of siltstone appears to be						shale	95 (35)
5960		50	siltstone		slightly more argillaceous						dol	
					In some thin plate	vuggy	fracture porosity					
		ft	silty sandstone		Shiny silt surfaces	tight					silt	65
					Cal infilled fractures						sand	
					Carbonaceous plant fragments						argil mat	15 (7)
					In thin sections						dol	
					siltstone appears well							
					sorted.							
5960		50	shale		As above							
5970		50	siltstone									
5970		50	shale		As above							
5980		50	siltstone									
5980		80	shale		As above.						shale	95 (14)
5990		20	siltstone		Shiny silt surfaces						dol	
					on shale							
					Fx glauconite in siltstone						silt	70
					Fx anhydrite filling						sand	
					fractures						argil mat	15 (2)
5990		50	shale		Fx anhydrite.						shale	95 (24)
6000		70	siltstone		Siltstone again predominant						dol	
					Fx fracture filling more							(4)
		ft	silty sandstone		abundant.						silt	65
					Several chips of siltstone						and	
					have vague laminations						argil mat	15 (10)
					due to carbonaceous & dark							
					minerals or shale along							
					laminae. Much of							
					siltstone appears to be quite							
					argillaceous							
6000		30	shale		Micaceous shale & dol							
6010		70	siltstone		cemented siltstone.							
					Many fx fracture filling							
					& predominately							
					Cal fragments in shale							

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
6010		30	shale		As previous sample							
6020		70	siltstone									
6020		30	shale		as previous sample.							
6030		70	siltstone									
			Tr lm silty dolomite									
6030		30	shale		As above							
6040		70	siltstone tr lm silty dolomite									
6040		90	shale		tr anhydrite							
6050		60	siltstone									
6050		50	shale		Plant fragments in siltstone						shale dol	15
6060		50	siltstone								silt	10
											sand arg lm	10
6060		50	shale		tr anhydrite							
6070		50	siltstone		tr pyrite in shale							
			tr lm dolomite									
6070		40	shale		Lt. gy. mottled surfaces on shale							
6080		60	siltstone		Some of siltstone appears finely micaceous tr anhydrite good packstone fabric							
6080		30	shale		tr anhydrite							
6090		70	siltstone		(siltstone in some cuttings may be cavings) Shale: Some of mica is red brown in color							
6090			Missed									
6100												

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03
6100		40	shale		Shikonsided surfaces								
6110		60	siltstone		shale Qtz infill fractures								
					in siltstone								
6110		90	shale								shale	75	65
6120		10	siltstone		tr - hydrite						dol		
					Plant fragments in shale								
											silt		
											sand		
											argil mat	10	
											dol		
6120		75	shale		Plant fragments in								
6130		5	siltstone		shale								
6130		95	shale										
6140		5	siltstone										
6140		95	shale		tr anhydrite								
6150		5	siltstone										
6150		70	shale								shale	95	65
6160		30	siltstone		tr anhydrite						dol		
											silt		
											sand		
											argil mat	10	
6160		70	shale		Shikonsided surfaces								
6170		30	siltstone		tr to filled fractures								
					Plant fragments								
					tr anhydrite								
6170		70	shale		as above								
6180		30	siltstone										
6180		70	shale		A yellowish brown								
6190		30	siltstone		mineral present in								
					seams in shale & also								
					with the presence of								
					tr to filled								
					fractures of anhydrite								

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
												(57)
6190		60	shale		Plant fragments in shale. In anhydrite							
6200		40	siltstone		2 dry fracture filling							(4)
6200		70	shale		Plant fragments in anhydrite							
6210		30	siltstone		slickensided surfaces on shale.							
6210		40	shale									
6220		60	siltstone									
6220												
6230												
					trace of coal							
6230		40	shale		shale more fissile, thinly							
6240		60	siltstone		more micaceous							
					BG no apparent change							
					to account for greatly							
					increased drilling rate							
					from 17 min/ft to 10 min/ft.							
6240		95	shale		Minerous oil stain in							
6250		5	siltstone		shale & limestone							
					ripple laminations							
6250		70	shale									
6260		30	siltstone		5% limestone in							
					siltstone							
6260		70	shale		As above							
6270		30	siltstone									
6270		60	shale		No show							
6280		40	siltstone		1% coal							
6280		60	shale		No show - siltstone							
6290		40	siltstone		plant fragments in shale							
					Fract. Fillings: Barite							
					& ? in limestones							
6290		60	shale									
6300		40	siltstone									

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
6300		70	shale		Trace of coal						shale	
6310		30	siltstone		Bioturbated surfaces							
					w/ shell fragments							
					Ripple lamination							
					Flaser bedding						salt	70
					Abundant Bioturbation						amphipods	(3)
					silt-filled burrows							
					+ carbonaceous							
												7.60
6310		80	shale		Coaly							
6320		20	siltstone		+ carbonaceous							(2)
			+ Sandstone (covings?)									(2)
6330		75	shale		Coal							
6340		15	siltstone		Laminated w/ silt							
					fractures as well as quartz							
6330		90	shale		Coaly							
6340		10	siltstone		+ carbonaceous							
6340		90	shale		+ carbonaceous							
6360		10	siltstone		sand fragments in shale							
6350		90	shale		Coal							
6360		10	siltstone									
6350		50	shale		Coal fragments							
6370		50	siltstone									
6370		85	shale									
6380		15	siltstone									
6380		90	shale		Coal pieces in shale							
6390		10	siltstone									
6390		70	shale		Coaly							
6400		30	siltstone		Up to 1cm coals							
					w/ laminations of silt							
					Lenticular bedding							
6400		70	shale		Coal pieces							
6410		30	siltstone		Laminations /							
					Coal pieces in shale							
					+ carbonaceous							
					Coal drops in grain size							
					Silt filled burrows							
					siltstone							

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6410		70	shale		silty fragments							
6420		30	siltstone		Coaly							(76)
											shale	95
6420		80	shale		Coal - rare						-ite	
6430		15	siltstone		Coal like in any							
					other sample							
		5	coal		to pyrite						silt	70
											sand	
											argil	10
											coal	CC
6430		90	shale		~ pyrite in shale							
6440		10	siltstone		silty fragments							
6440		70	shale		~ pyrite							
6450		30	siltstone		micaceous silty							
					shale with plant							
					fragments							
					/ Dk siltstone - mineral							
					/ Coaly quartzose							
					~ coal							
					fracture fracture							72
					/							
6460		50	shale		Coaly							(2)
6460		50	siltstone									57
6460			shale		~ ~ calcareous							
6470		40	siltst		pyritic nodules							(2) (78)
					~ coal - coaling							
					quartz, silty fracture							
					/							
6470			Mixed		with Dk shale +							
6480					coal fragments in sample cuttings							
					/							
6480		50	shale		~ ~ coal							
6490		20	siltstone		pyritic silty fractures							
					/							
												17
6490		50	shale		~ coal							5
6500		50	siltstone		plant fragments							
					quartz fracture							
					/							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
6500		50	shale		↑ coal — carbonaceous							
6510		50	siltstone		↑ pyrite							
6510		10	shale		spherical pyrite						(57)	
6520		40	siltstone		concretion ↑						(35)	
					↑ coal						(40)	
					plant fragments in black							
6520		10	shale		↑ coal							
6530		40	siltstone		↑ carb. shale — pyrite in siltstone & shale							
					plant fragments in shale							
6530		10	shale		↑ pyrite plant fragments in shale							
6540		30	siltstone		↑ coal							
			some shale (very micaceous)		black siltstone with thinner, discontinuous							
					with pyrite stringers & rooty bedding							
					coal — shale — siltstone — sandstone							
					— shale most very calcareous to pyrite							
					cement pyrite cut in thin section							
					— pyrite disseminated & nodules							
6540		70	shale		↑ coal, dusty							
6550		30	siltstone		pyrite in shale							
					siltstone							
					↑ pyrite							
			How does pyrite in this shale differ from shale pyrite?									
6550		70	shale									
6600		30	siltstone									
			Additional limestone — also some gypsum		↑ pyrite in quartz stringer — fracture filling ↑ Many concretionary							
6660		70	shale		↑ pyrite fracture filling							
6670		30	siltstone									
			↑ fracture — some pyrite									

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
6570		70	shale		as before							
6580		30	siltstone									
6580		10	shale		dkgy grey to dkbrn							
6590		90	siltstone		sl calc, sl micaceous							
					fissile, thinly							
					laminated with							
					thin interbeds							
					of shale micaceous &							
					slightly calcareous							
					some plant fragments							
					in shale - sandstone							
					partly pyritic							
					as above							
6590		50	shale								shale	95(97.5)
6600		50	siltstone		Mainly as above.						dk	
					Some of the						silt	10
					nuckeous = Mainly as above & apparently non						micaceous	5
					calcareous							
6600		50	shale		as before							
6610		50	siltstone									
6610		40	shale		as before							(25)
6630		60	siltstone									(50)
6620		30	shale		Still calcareous fragments							(75)
6630		70	siltstone		in shale							90
					as before							70
6630		70	shale		as above							
6640		30	siltstone		as before							
					& micaceous							
6640		70	shale		as before							
6660		30	siltstone									
6650		60	shale		as before							
6660		40	siltstone									

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6760	F		shale		Co Valley							
6770	10		siltstone									
6780	70		shale		as below							
6790	20		siltstone									
			1 - like numbers and below									
6780	50		shale		- pyrite in fractures							5 7 9
6790	20		siltstone									
			5 Km shale								silt and vfg sand Load	11 X
6790	35		shale		- pyrite							50
6800	5		siltstone		- Thin bed L.t.							
					- pyrite - ch. shale							(7)
	10		sandy		and pyrite as disturbed							10
					Bioturbation in							
					- shale							
6800	70		shale		- pyrite							
6810	5		siltstone									
	5		sandy									
6810	90		shale		- pyrite							50
6820	10		siltstone									(7)
6820	80		sh.		- pyrite							
6830	10		siltst.		- calcite - micrite replacement							
					shale and sandy L.t.							
					- micrite clasts							
					V - sand L.t.							
					- pyrite							
					- Kensiled Surface							
6820	55		shale		- micrite							(7)
6830	15		siltst.									10
					- shale clasts							
					- pyrite and shale							
					- micrite							
6840	90		shale		- pyrite and shale							
6850	10		siltstone		- pyrite Bioturbation							

Transcribed

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
1750	ss		shale		pyrite							
1760	ss		siltstone		[illegible] slips [illegible]							
			[illegible]		interbedded [illegible] pyritic							
			[illegible]		shale [illegible]							
			[illegible]		quartzose siltstone							
			To sandstone		[illegible]	[illegible]						
					dolomite cemented							
					[illegible] glauconite							
					[illegible] cavings?							
			To [illegible]									
17[illegible]	ss		shale		no pyrite							
17[illegible]			siltstone		[illegible]							
					shale [illegible]							
					[illegible]							
					with disseminated							
					pyrite [illegible]							
					[illegible]							
					pyrite [illegible] dolomitic							
					[illegible] plant fragments							
					in siltstone							
					[illegible]							
					[illegible]							
					[illegible] interbedded with siltstone							
					shale [illegible]							
					[illegible]							
1770	ss		shale		pyrite							
1780	ss		siltstone									
[illegible]			shale	blk	micromicaceous, v sl dol						Core very similar to previously	
					pyritic - blebs along bedding planes							
					bedding - horizontal to 30°							
					fractured, occassional							
					calcite							
			siltstone	[illegible]	dips 0° - 30°							
				"	with healed fractures							
					dol cemented							
					scattered pyrite							

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5780		50	shale	DK	micromicaceous pyritic, v slightly						shale	50
5790											lst	
											pyrite	
		50	shale	med DK	fracture, slightly						silt	20
					laminated						sand	
				DK	thinly pyritic						shale	50
											lst	
											pyrite	tr.
												01
												(3)
5790		10	shale		as above as							
5800		90	siltstone		in core description							
5800		95	shale	DK	as above shale is						sh	95
		5	siltstone		thinly laminated and						dol	
					pyritic						pyrite	tr.
											siltstone	as ab
												(105 tr.
5820		70	shale	DK	as above							
40												(silt
		30	siltstone	Mdy DK	siltstone as above							
					calcareous cement,						salt	tr
					dolomitic cement						sand	F
										dkV	siltstone	
											arg mat.	10
												(1 .85
5840		90	shale		siltstone as above.							(.14
		10	siltstone		core chip 1-2% pyrite							
					in sample.							
5850		70	shale		as above trace							
60		30	siltstone		pyrite							
5860		100	shale	DK	Mod DK pyritic						shale	90
70					shale						pyrite	
											silica	
5880		70	shale		as above with some						sh	25 dk
5890		10	argillaceous l's	mDK	argillaceous limestone						lime	75
					as above						arg mat	10

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6900.	10	Shale	bK	as above, silicon black pyritic shale						Sh	95
10										SLOz	
										pyrite trace	
6910	90	Shale.		as in 6880 - 6900							
6920	10	any l's									
6930	100	Shale	bK	as above black, silicon pyritic shale.						Sh.	90
30.											
6930	75	Shale.	bK	as above shale with						Sh	65
40.	20	chert.	bK	interbeds of black chert Pyritic.						chert.	20.
	5	any l's.									
6940	70	Shale.		Lithology as above							
50	20	chert		increase in l's							
	10	l's.									
6950	60	Shale		as above.							
60	25	chert.									
	15	l's.									
6960	90	Shale.		black silica. shale with							
70.	10	chert		minor chert as above.							
6970	60	Shale		shale as above with						Shale	90
80	40	any l's.		pyritic, limestone is						Limonite	10
				medium gray, micrite						any mt.	30
6980.	90	Shale.		as in 6960 - 70 with							
90	10	chert.		pyrite.							
										Shale	40
6990	100	Shale		Black silica pyritic							
				shale abundant							
				trace in hole							

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7090.		100	shale	BK	black silica shale cont'd.						as above	
7070					at ca 7030-40 fractures with white calcite slickenside surfaces.							
7070		90	black sh		black pyritic shale as above with thin interbed						shale	90
80.		10	black chert		of black chert						chert	100
7080		100	black sh		as above							
90												
7090		90	black sh								as in 7070-80.	
7170		10	black chert									
7110		90	blk shale		as above with approx						shale	90
20					10% of skeletal micritic limestone						micrite	5
		10	sk. micritic l's.								black chert	
7120		80	black silica shale.		as above, local shale trace l's only.						as above	
30												
7130		60	black chert		lithology of shale as above, abundant chert						chert	100
40		40	silicious shale									
7140		50	black chert		as above							
50		50	silic-sh									
7150					lithology cont'd as above to 7158 where drilling break indicates argillaceous, skeletal micritic l's of ithaca beds							
60.												
7160.		30	limestone grey	bi	interbedded micritic						micrite	60
70.		50	calcareous shale		lithology argillaceous l's and dk grey						arg mst	40
		10	skeletal micritic l's,		shale with some shaly micritic l's.						shale	70
											micrite	30
											skeletal	30
											arg mst	40
											micrite	30

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
7170	40		Limestone arg.		trace of pyrite some						micrite	60
7180	60		limey shale.		of the limestone is chalky						arg mat	40
					Final some is recrystallized						shale	70
					trace skeletal material.						micrite	30.
7180	30		Limestone arg		as above.	Trace						15 in
7190	70		limey sh.			in chalky						sh-50
						limest						
7190	40		Limestone arg		as above trace pyrite							
7200	60		limy sh.		continues							
									Pyrobit.			
7200	40		limestone	buff	Some limst recrystalized						micrite	40
10	50		micrite skel		skeletal limestone very						skel. debris	60.
			lls	buff.	fine sk. fragments						arg mat	40.
	40		arg lls.		Arg - lls fractures are						micrite	60
					infilled with white calcite							
					and pyrobitumen.							
7210	70		micrite skel lls		Some crinoid fragments				Pyrobit			
20	30		arg lls.		recognized. Pyrobit and							
					common in fractures.							
7220	100		skel micrite	br.	as above skeletal				Pyrobit		skel. micrite arg mat.	40
to			lls. argillac.		debris some recrystallized							40
60					Crinoid disks recognized.							20.
					Pyrobitumen common							
					in fractures.							
7260	80		skel arg.	br.	as above interbedded lls				Pyrobit		micrite	sh 30
to			lls		of chalky micrite						skel	80
90.	20		micrite lls	arg	limestone							
					trace stromo fragments				Fractures.			
70					crinoids							
7290	90		skel arg lls	mdy	as above interbedded lls				Pyrobit.		as above micrite skel lumpstone	sh 60
7300	60		skel micrite	buff	and dense skeletal micrite							2
					lls. very fine skel material							2
					free of stroms							
					Pyrobitumen in all fractures							
					later spary calcite infilling							
					vugs. Calcispheres. Brach valves.							

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7810		20	skel arg l's		as above, but dense micritic skel accret.				fg		sh. frost.	10sh
30												50 mic
40		20	skel ~~mudst~~ micritic skel.		limestone predomt. skeletal with pyrobit.							acc 15
7870		20	skel arg l's.		as above.							
		80	mic.									
7930		20	shale	ltgrn	shale is very pale green with pyrite cubes scattered throughout. limestone is buff dense with very vague pellets.						sh.	100
50		30	~~micrite~~ pelletal micrite l's								micrite	60
											pellets	20
											intervals	10
											skel	10
7980		20	shale	ltgry	shale and l's as above dense. Clear calcite infilling in vein & breccia structures?						sh 20	
8050		30	pellet-micrite l's.								mic 40	
60		10	shelly l's								shelly ~~mic~~	10
8060		10	shale.	ltgrn	shale pyritic as above dense pellet accretionary limestone and recrystallized shelly limestone.						sh 10	
80		60	pellet micrite.								pell + inter 20	mic
		30	shelly recrystall l's.								shelly	
8080		10	shale		as above pellets very vague, rings and any primary porosity filled with clear calcite.						sh - 10	
8100		70	pelletmicrite								pell + inter - 20	
		20	shelly l's								mic mic	30
											shelly pell	70
8120		10	shale	green	as above the dense						sh 10	
10.		60	accret l's	buff	pellet l's with some						pell + inter 20	
		20	shelly l's	white	shelly l's and pyrite						sh - 15	
					shale? Dark gray						micrite	60
		10	argil l's	ltgrn	replaces l's ?						argill.	10

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
7410			7450.		Core # 8.							
7410		70	accretionary	buff	Thin bedded to massive						micrite	60
20			l's.		limestone, abundant pyrobit						accret.	5
		10	shale	ltgy	and calcite filling in						shale	rest
					fractures & vugs. Argillaceous						arg mat	40
		20	~~micrite~~ argill	ltgy	limestone in black						micrite	60
			l's.		shales pale green grey.							
					and pyritic.							
7420		30	shale	ltgy.	ll Lithology as above							Shale
30					with ~~20~~ 1/2 grey shale							mic 30
		70	accretionary	buff	interval							5
			l's.									
7430		20	argill. l's	ltgy	dense argill micritic						micrity	60
40					l's with accretionary						arg mat.	30
		70	accret. l's.	buff	l's as above, shale is							acc 35
					mainly as thin irregular							
		10	shale		laminae & patches.							sh 10
7440		80	shale	ltgy.	Lithology as above.							sh 20
50.		20	accret l's									mic 35 acc
50-60			mixed									
7460		10	shale	ltgy	Lithology as above.						micritic l's.	(sh 10)
70		10	micritic l's.									acc 40
		80	accret. l's.									30 mic
7470		30	micrite		mic micritic limestone							
80		10	shale		dense, calcite lined							acc
		60	accret l's.		and calcite fracture filling							
7480		10	shale.		pyritic shale.							sh 10
90		40	micrite									micr
		50	accret l's									mic
7490		10	shale									sh 10
7500		30	micritic									30 mic
		60	accret l's									30 acc

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
7500.		40	arg. limestone	dk gy	dark gray macrocrystalline argillaceous l's with						dolomite	70
10											arg mat.	30
		50	acc. limestone	buff	subordinate arg l's as above						asphalt. mic	
					and some chalky white						chalky mic	100
		10	chalky l's.	WT.	l's. trace pyrite.							
7510		60	arg l's.		as above							
20		40	acc l's									
7520		60	arg l's		as above pyrobitumen							
30		50	acc l's		contain in fractures and							
					primary porosity with							
					sparry calcite.							
7530		10	arg l's.		recrystallized l's with							
40		90	acc l's.		abundant pyrobitumen in							
					fractures, some chalky							
					l's. some limy l's.							
7540		60	arg l's		argillaceous l's is somewhat						arg mat	40
50		50	acc l's.		chalky						chalky l's	60
											as above	mic 20
7550		40	arg l's.		as above. trace							arg. 15
60		60	acc l's.		pyrite							mic 25
7560		30	dolomitized l's	buff	dense very fine grained						micritic	60
70					micritic limestone partially						dolomite	40
					dolomitized.							
		40	arg. l's.		as above.							arg. 5
		60	acc l's.									acc 30
7570		10	dol. l's		Interbedded lithologies						as above	10 dol
80		10	arg l's		with pyrobitumen in						as above	arg
		20	chalky l's.		the recrystallized and						chalky	60
					pyrite in argill and							
		50	acc l's.		acc.						as above	acc 2

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DEPTH	QUALITY	ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
7580	30	vuc LS		Fine pelletal micrite						pellets & lumps	50
90.				pelletal skeletal LS.						shell	2
	70	dolomitized LS.		Pervade with burrows						micrite	30
				degrees of dolomitization						dolomite	50
				Skeletal fragments present						micrite	50
				Trace pyrite							
				Trace dolomite bed at							
				base of Core #9							

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
7590		70	LS, micritic Grainy.	med gy.	micritic pellet, Skel						pellets, lumps	
7600					LS - dolomitized in						Skel	20
		30	Dol. LS.	dk Br.	varying amts						micrite	20
					Skel. fragments						dolomite	40
					,						.025 micrite	60
					pyrite traces							
7600		80	LS micritic	gray	Micritic, pellet, Skel						pellets, lumps	
7610			Skel.		LS						Skel.	20
		15	LS, dol	dk gy.	Dol. ls - micritic						micrite	50
					with skel & pellets,						dolomite	30
					argillaceous, some						Mudst. micrite	40
					recrystallization						Skel.	10
		5	Chalky LS	cream	Interbedded chalky ls,						pellets	10
					shows some recrystallz.						chalk	100
7610												
7620		90	LS, micritic	Grey	Micritic Skel, pellet						Micrite	50
			Skel.								skel	20
		Trace	Dol. argil	Br.	ls						pellet	
		5	Chalky LS	cr.	Trace of dk. br.						dol.	50
					argillaceous Dol.,						Mudst. micrite	40
					limy						chalk	100
7620		85	LS. micritic	dk gy,	Micritic, pellet, Skel						Micrite	40
7630		10	Dol LS.	Br.	ls.						pellet	
		5		dk	interbedded argil.						skel.	20
			Argil LS	br.	micritic pellet ls						dol.	40
		5	Chalky LS	cr.	Dol. ls, sl. argil						mic.	55
											Mudst.	5
											chalk	100
					fine fracturing is							
7630		95	LS, Micritic	Skel. Gy	the micritic skel, pellet						Micrite	50
7640		5	Argill. dol	dk	LS contains v.						Skel.	20
			LS.	br.	material, varying amts of						pellets	30
					pellet material - varies						Micrite	50
					to almost a micritic LS.						Mudst	10
					Traces of pyrite						dol.	40
					the argill. ls is sl.							
					dol.							
7640		50	LS Micritic		Micritic with varying						Micrite	50
7650			Skel, pellet		amts of fine skel &						pellet	
					pellet material						Skel.	20
		15	Dol. LS.		Dol. ls. sl. argill,						dol.	40
		5	Chalky LS		with pellet material &						micrite pellet	10
					micritic matrix						Mudst	100
											chalk	

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DEPTH	QUALITY		ROCK NAME	☑WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
7650		90	Micrite. Ls	gray	Micritic, Skel, pellet						Micrite	50
7660		5	Arg. Ls	Lt. Br	Ls as before.						Skel &	
		5	Chalky Ls	Cream	Arg. Ls - Sl. dolomitic						pellet	
					Chalky Ls - some in part recrystl.						Micrite	60
											Mudst	10
											dol.	30
											Chalk	100
7660		85	Micr. Ls	gray	Micritic Ls grading into							
7670		10	arg. Ls.	Lt. Br	Micritic Skel, pellet Ls.						Micrite	65
		5	Chalky Ls	Cream	as before - Sl. dol. in						Skel.	
					Arg. Ls sl. dol in part						pellets	
					Chalky Ls. in part						Micrite	80
					recrystl						mudst.	10
											Dol.	10
											Chalk	100
7670		90	Micr. Ls.	gray	Micritic Ls - grading							
7680		10	Arg. Ls		into micritic pellet Skel						Micrite	60
		Tr	Chalky Ls		Some of the pellet to Skel. Ls						Skel.	
					may have ibio strom?						pellets & lumps	
					arg. Ls sl dol as						dol.	10
					before.						Micrite	70
											Mudst.	10
											Dol.	20
											Chalk	100
7680			Micrite Ls		Micritic Ls - grades							
7690		90	Micr. Ls		into Skel, pellet Ls,						Micrite	50
		10	Arg. Ls		Sl. dol. fractures						Skel.	
		Tr	Chalky Ls		calcite filled						pellets	
											dol	10
											micrite	70
											Mudst.	10
											dol.	20
											Chalk	100
7690			No sample									
7700												
7700		95	Micr. Ls		Micritic to micritic							
7710		5	Arg. Ls		Skel pellet Ls -						micrite	50
		Tr	Chalk Ls		Sl. dolomitic						Skel	
											pell.	
											dol.	10
											micrite	70
											Mudst	10
											Arg.	20
											Chalk	100

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
7710			~~7710~~		Micrite LS grading to						Micrite	30
7720		90	Accrec. LS	Grey	a pellet ± skel LS.						pellet	
		5	Arg. LS	Gr-br	Sl. dolomitized						skel.	
		5	Chalky LS	crm							Dol.	10
											Micrite	70
											Mudst.	10
											dol.	20
											Chalk.	100
7720			~~Pellet~~ LS.		Pellet LS grading						Micrite	20
7730		95	Accrec LS.	Buff Br	to micritic pellet						pellet	
					skel - ± sl. dol'd						skel.	
					some of the pellet LS						dol.	10
					looks almost algal in						Chalk	100
					appearance.						Mudst.	10
		5	Chalky LS	crm							Micrite	70
		Tr	Argil LS	gray							dol.	20
7730					Pellet LS - with							
7740		95	Accrec LS	Buff Br	~~Micritic LS~~						Micrite	20
					~~Fossiliferous skel pell LS~~						pellet	
		5	Argil LS	gray	also Micritic - Skel						skel.	
					pellet LS.						dol.	10
		5	Chalky LS	crm							Micrite	70
											Mudst	10
											dol.	20
											Chalk	100
7740		50	Pellet LS	creamy buff.	TIGHT Pellet LS with						Micrite	25
7750		90	LS - dolomitic	Gray	interbedded micritic LS,						pellets, lumps	
		10	Chalky LS	crm	LS dol, sl argil						& Skel	
					Chalk is recrystallized						micrite	70
					in part, calcite						dol.	20
					infilled fractures.						Mudst.	10
											chalk.	100
											~~Micrite~~	
7750		55	Accrec. LS.	Gray Buff	Tight pellet ls and						micrite	35
7760		40	LS dolomitic	Tan Gray Buff	micritic pellet skel LS.						pellets, ~~lumps~~	
		5	Chalky LS	crm	Calcite filled						skel	
					fractures.						micrite	70
					Chalk text'd as						dol.	20
					above.						Mudst.	10
											chalk	100

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
7760			~~Ls~~		Pellet Ls with						micrite	25
-70		70	Accrec. LS (Limestone)		variable bedded micritic						Pellets, lumps	
					pellet Skel.						Skel.	15
		20	~~Ls~~ Ls, dolomitic	grey	Dol. Ls, argil,						Dol.	30
					some skel.						Mudst.	10
		5	Dol. limy	~~gy~~ gy-brn.	Chalk shows some						Micrite	50
		5	Chalky Ls		recrystallizat'n with						Skel.	10
					Trace chalky to microgranular	CH	3				Dol.	60
					& - non-effect.						Micrite	40
					Significant % of the pellet Ls is						Chalk	100
					highly fenestral & is filled							
					with calcite							
7770		70	Accrec. LS	Cr-Buff	Good pellet ls - with						micrite	30
-7780					some skel. some						Pellets, lumps	
					ostracods &						Skel	2
		20	~~Dol. Ls~~ Ls, dolomitic	grey	Dol. Ls / argil,						Dol	30
					dense & tight,						Mudst	15
					with skel material						micrite	40
		5	Dol, limy	gy Br	Grits interbedded						Skel.	1
		5	Chalky Ls	cream	Grey, micritic Ls,						Dol.	60
					with minor skel. material						Micrite	40
					Dolomite lining						~~Ls~~ Chalk	100
					~~Ls~~ calcite xtls in fitting							
					& some in pellet Ls							
7780		80	Accrec Ls.	Buff	Micr. pellet - micr. skel						micrite	50
-7790		10	dolomitic Ls	grey	pellet Ls - some ostracods						Skel	
		10	chalky Ls	grey cream	Some argillaceous ~~lining~~,						pellets	
			~~fossil~~.								dol.	40
		5	Dolomitic Ls	grey Brn.	~~Ls~~ Dolomitic Ls is						micrite	60
					argill. - grades to a grey						chalk	100
					dol. Ls.						dol.	30
					Trace of soft, grey						& mudst	15
					waxy Shale						micrite	50
					- some fine fracturing with						Skel	
					calcite in filling, & mic. pellet						Fenestrae	80
				Buff-Brown							micrite	20
7790		80	Accrec Ls	Buff	Micritic pellet - & micritic							
7800					Skel, pellet						micrite	50
		10	dolomitic Ls	grey	Trace of ~~Ls~~ calcite xtls						Pellets - lumps	
		10	Chalky Ls	Brn cream	Minor amts of brown,						Skel.	
					argillac. dolomitic Ls -						micrite	55
					which has trace of skel.						dol.	30
					chalky Ls ~~Ls~~ shows						Mudst.	15
					some recrystallizat'n						Chalk	100
					Trace of ostracods in							
					the micrite Ls							
					calcite xtls in fitting							
					~~of~~ fracturing in							
					minor amts of pellet Ls							

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
7800					Interbedded micrite						micrite pellets lumps	50
7810		50	micrite,	lt Br	Ls / micr. pellet with						Shell.	
		30	Pellet Ls.		some shell.						micrite	60
		15	Micrite		minor amts of dk						dol.	30
		5	dol. Ls.		br. argill. dol. Ls						mudst.	10
		10	chalky Ls		+ grey dol. Ls.						chalk.	100
					Recrystal. of chalky Ls							
					noted. Micrite in							
					part fractured with							
					calcite infilled							
7810		80	Recrec. Ls.	Lt Br Buff	Micritic / micritic						micrite	40
7820		10	Dol. Ls.	grey	pellet Ls.						pellets, lumps	
		10	chalky Ls	cream							Shell.	
					Minor amts of						micrite	55
					dk Br - brown						dol.	30
					argil Ls - dolomitic						mudst.	15
											chalk.	100
7820		80	Recrec. Ls.	Lt Br Buff	Interbedded Micritic Ls							
7830		10	Dol. Ls &	gray	+ micritic pellet Ls.						micrite	30
		10	chalky Ls	cream	The pellet Ls shows in						pellets, lumps	
		5	Argil. Ls.	dk Br	part calcite recrystallized						Shell.	
					Shows varying amts						dol	30
					of dolomitization - included						micrite	45
					in the darker brown						mudst	15
					argil Ls.						Shell.	10
					Trace Ostr. in micrite						chalk	100
7830		80	Recrec Ls	lt Br - buff	Interbedded Micrite /						micrite	30
7840		5	dol. Ls	gray	micr. pellet Ls - with						pellets	
		10	chalky Ls	cream							Shell.	
		5	Argil Ls	dk Br							micrite	60
					The						dol.	40
					pellet Ls often is a						chalk	100
					more vague pellet +						micrite	50
					indistinct						dol.	30
											mudst	20
7840		80	Recrec Ls		micrite / interbedded micr						micrite	20
7850		5	dol Ls.		pellet Ls. The pellet						pellets	
		10	chalky Ls.		Ls shows fair amt						Shell.	20
		5	Argil Ls		of calcite recrystallization						dol.	30
		<5	micrastone		& some pyritization						micrite	60
					Minor interbedded shale						Shell	10
											micrite	50
											clast to mud	20 30 50
											mudst	100

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
7850		90	Recrec. LS	Tan Buff	Mica. pellet LS / micrite.						micrite	30		
7860		~	Dol. LS		Trace of strom material ?						Pellets			
Tr		5	Argil LS		Pellets / grade into vague						Skel.			20
		5	Chalky LS.		pellets						Skel. Micrite	50		
					A few traces of Ostracods						Dol. ~~Micrite~~ Skel		30	30 50
					Fine Skel. material						Mudst	30	5	
											micrite	70		
7860		90	Recrec LS		Inter bedded micrite/micrite pellet LS.						chalk		100	
7870		5	Dol. LS								Dol		30	20
		Tr	Argil LS.								micrite	30		
		5	Chalky LS								Pellet			
											Skel.			30
											Dol.		30	20
											micrite	70		
											Skel.			20
											Mudstone	30		
											Micrite	40		
											dol.		30	50
											chalk		100	
7870		85	Recrec. LS		Micr. Skel / micritic						micrite	40		
7880		10	dol. Ls.		pellet, interbedded.						Pellets			
			~~Ls~~		The micrite ~~contains~~						Skel.			20
		5	Chalky Ls		has varying degrees of						dol.		30	20
					dolomitization - & grades						chalk		100	
					to a grey, dolomitic Ls.						micrite	70		
											dol.		30	30
				Buff brown										
7880		65	Recrec. LS.		Inter bedded Micrite /						micrite	50		
7890		30	dol. LS.	grey	Mic pellet LS.						Pellets			
		5	chalky LS		~~Micrite~~ micritic						skel.			20
					~~rock~~ skel with varying						micrite	50		
					degrees of dolomitization -						dol SKEL		30	30
					enough to call it a dol Ls						chalk			
				buff brown										
7890		85	Recrec LS.		Inter bedded Micrite / Mic						micrite	30		
7900		10	dol LS	grey	pellet						Pellets			
		5	Chalky LS		less dolomitization						Skel.			
					noted.						Micrite	50		
											dol.		30	
											Skel.			
											chalk		100	

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DEPTH	QUALITY	%	ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	S .01	.03	.06	.1
7900		30	Foss. Accrec. Ls.	Br-Buff	Inter bedded micr.						micrite	40			
-7910					pellet & micr. Ls - with						Pellet				
		60	dol. ls.	grey	Same Skel. / Sl. Argill.						Skel.				20
		5	chalk.	cream	dolomitic micritic ls						Micrite	30			
		5	Dolomite	grey	micr. pellet Skel - slightly						dolomite predomst.	5	20		20
					dolomitic.						Skel.				
					The micr. pellet shows						Pellets				
					numerous fractures infilled with Calcite Xtls						chalk.		100		
					Trace of Ostracods.						dol.		70		
					The dolomite is tight, dense,						micrite	30			
					Sl. fining										
				Buff Br.							micrite	40			
7910		50	Accrec. Ls.		Inter bedded micritic ls /						pellet				
-		40	dol. Ls.	grey	micr. pellet Skel / micritic						Skel				20
7920		5	dolomite	grey	pellet w. a few ostracods						micrite	55			
		5	chalk.		The dol. ls is micritic						dolomite predomst.	5	20		
					Skel with varying amts						Skel.				20
					of dolomitization.						chalk		100		
					The Buff micritic pellet						dol		70		
					shows fine fracturing with						micr.	30			
					calcite xtls										
		60	Accrec. Ls	Buff-Br.	Pretty much same						micrite	40			
		35	dol. Ls.	grey	as before						pellet				
7920					Chalky ls has shown						Skel.				20
- 7930		5	chalk	cream	recrystallization in part,						micrite	30			
					throughout. Dol. ls. is						predomst	5			
					generally sl. argill.						dol.		25		
											Skel.				
											pellet chalk	100			
		60	accrec ls.	Buff Br.	micritic / micritic pellet.						micrite	30			
7930		30	dol. Ls	grey	more str chalky in						Pellet				
-											Skel.				20
7940		10	chalky ls	cream	part, recryst. Ls.						micrite	25			
											dol.		30		
											predomst.	10			
											Skel.				1
											pellet				
											chalk		100		
				Buff Br.							micrite	30			
7940		10	Accrec. ls		micritic Pellet / interbedded						Pellet				
-		20	Skel. ls	grey	micritic skeletal -						Skel.		30		
7950		10	chalky ls	cream.							micrite	70			
											dol.		20		
											predomst.	10			
											chalk		100		

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
7950		80	Accrec. LS.	Buff-Br.	micritic - Skel -						micrite	60
7960		15	dol. LS	grey	with lesser amts of						Skel.	
		5	Chalky LS.	cream.	micritic pellet						Pellets/Lumps	
											Dol.	20
											micrite	70
											mudst.	10
											chalk	100
7960		80	Accrec LS.		micritic Skel /							
7970		10	dol LS	grey	interbedded micritic						micrite	60
		10	chalky LS	cream	pellet						Skel	
											Pellets	
											Dol.	20
											micrite	60
											Skel.	20
											tr Chalk	100
7970		10	Accrec LS	Buff Br.	micritic Skel / interbedded							
7980		5	dol LS.	grey	micritic pellet.						micrite	40
		5	Chalky LS	cream							pellets	
											Skel	
											Dol.	10
											micrite	60
											Skel.	
											Chalk	100
7980		30	Accrec LS.	Buff-Brown	micritic Skel - with						micrite	60
7990		5	Chalky LS	[illegible]	pellets / [illegible]						Skel	
		65	micritic	LT	- [illegible]						Pellets	
			Skel.	grey	The micritic Skel is						micrite	50
					[illegible] grayer in color						Skel	
					& is slightly argillaceous						Pellets	
											mudst	10
											chalk	100
7990		90	Accrec. LS.	grey	micritic pellet - grey in color							
8000				Lt buff	shows some chalkification						micrite	40
		5	chalky LS.	cream	- some fine Skel						pellet	
					debris - some Ostracods						Skel.	
		5	Limy dolomite	grey	Small amt of tight,						dol	50
					dense [illegible]						micrite	40
					limy dolomite - Slargil						Mudstone	10
											chalk	100
8000		50	Fine dolomite	grey	micritic pellet w.						micrite	40
8050		90	Accrec LS	Lt buff	Skel as above						Pellet	
		5	chalky LS.	[illegible]	grey Br. Fine xtine dol -						Skel	
					tight						dol	50
											micrite	20
											chalk	10

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
8010		40	Xtine Dol.	gray	massive, dense, tight						micrite	60
8020		50	Accre Ls.	Lt Br	finely xtine dol. slight						pellets	
		5	Chalky Ls	cream	pyritization =						skel.	
					Micritic skel & pellets as before.						Dol.	60
					Calcite xtls. -						micrite	20
					possibly filling fractures						mudst.	20
					Xtine dol. is sl. anhill. +						chalk	100
					sl. limy							
8020		20	Xtine dol		as before.						micrite	60
8030		75	Accre Ls.								pellets	
		5	Chalky Ls								Skel.	
											dol.	60
											mic.	20
											muds.	20
											chalk	100
8030		75	Xtine Dol.	gray	Xtine Dol. as above,							
-8040		15	Dol. Ls	gray	- in part with bituminous						micrite	60
		10	Accre. Ls	Lt Br.	streaks, infilled veins + fractures						pellets	
					of Calcite xtls.						Skel.	
					Dol. Ls. - Interbedded						Dol.	60
					gray, argillaceous, pyritic				Bitumen		micrite	20
					dol. limestone - which also						mudst.	10
					has veins of calcite in						micrite	60
					part. The pyritization						Dol.	20
					is in streaks.						mudst.	20
								Trace			Dol.	50
8040		75	Xtine Dol.	gray	Xtine dol as above.						micrite	10
-8050		5	Accre Ls.	gray	Shows pyritization						am. mudst.	10
				½ Lt Br.	(disseminated pyrite)						micrite	60
					Trace of xtine porosity				Bitum		pellets	
					Trace oil stain noted						skel.	
					Calcite in filled fine							
					fractures + veins.							
8050		100	Xtine Dolomite	gray							Dol.	50
-8060					Dolomite as above						micrite	10
			Traces Accre.		fine veinlets of disseminated						mudst.	10
			Ls as before		pyrite - bituminous in				Bitum			
					joint - Essentially							
					tight							
					Calcite in filling							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
8060		95	XTne Dol.	gray	XTne dol. as above						Dol.	40
8070		<5	Micr. LS		Tight. Pyritized in part as above. "Small amt of grey micritic LS - quite pyritic, argill.						Micrite Mudst.	10 10
Core		# 10	8074 - 8078									
8074					Grey XTine Dolomite - very dense, Limy							
-8078		100	XTne dol.	gr.	micro to fine grained tight dol. argillaceous quite fractured + infilled with a dark limy argillaceous material which is highly pyritized. Numerous long fractures with sparry calcite infilling						Dol. Micrite Mudst.	50 20 30
8080												
8090		95	Dolomite	grey	XTne, dense dolomite as						Dol.	50
		5	Argil. LS	dk gray	above, with smaller amounts of recrystallized LS - dolomitic, Argillaceous, very pyritized which has infilled fractures in the dolomite. Dolomite is tight.						Micrite Mudst Pyrite	20 20 50
8			XTne	Lt to dk								
8100		5+	Trace of Micr. Pellet	gray Lt Br	XTne dol. as before. Small amts of micritic pellet and micrite Dol. varies in argil content						Dol. Micrite Mudst. Micrite Pellets (amts Micrite Mudst	10 10 20 70 20
8100		95	XTne Dol	gray	Dol. as above with						Dol.	60
8110		5	Chalky LS	crm	small amts of infilled recrystd LS and less & highly pyritized. chalky LS shows much recrystallization						Micrite Mudst Chalk	10 30 100
8110		100	XTne Dol		Dol. as above.						Dol.	60
8120					Traces of chalky recrystd LS.						Micrite Muds	10 30

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DEPTH	QUALITY		ROCK NAME	☐ WET / COLOR / ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.
8120			[illegible]	grey-white						
8130		80	micritic - pellet ls		[illegible] ls - micritic & micritic pellet which shows abundant recrystallization					
		5	chalky ls	cream						
		10	Argill L's	grey						
		5	Dolomite XTs		(Tending to mask the true nature of the ls. interbedded recrystallized argillaceous ls					
					pyritized as before - to the extent of almost calling it, in part pyritized ls.					
[illegible]					Infilled sparry calcite					
[illegible]			[illegible]							
8130			[illegible]		crystalline					
8140		80	Micr. Pellet ls		(Recryst.d) micr.-pellet & micritic ls as					
		15	Argill ls.		before - [illegible] has a					
		5	Chalky ls		chalky appearance in part					
		5	XTs blol.							
			Skel + Recrec ls		Interbedded					
8140			[illegible] ls		Micritic Skel + micritic					
9150		85	[illegible] ls		pellet - showing varying					
		10	Argill. ls		degrees of recrystallization					
		Tr	Dolomite (XTine)	grey						
		5	Chalky ls							
					(Re - a granular argil ls)					
8150		65	Skel + recrec ls.		The argill. ls [illegible] with XTls of					
8160		30	Argill ls.		ls. [illegible] varied size from					
		5	Chalky Ls		micro grained to fine &					
					med. grained.					
					Skel & Recrec. ls as before.					
8160		85	Skel Recrec ls.		Skel Recrec. ls as above					
8170		10	Argil ls		Argil. ls as above -					
		5	Chalky ls		Sugary Texture					

COMPONENT	.01	.03	.06
Skel.	5	30	
Micrite	60		
Pellets, lumps			30
Chalk	100		
Dolomite			90
Micrite	10		
[illegible]	30		
Mudst.	30		
Micrite	70		
Skel.		20	
Micrite	60		
Pellets			30
Mudstone	30		
Micrite	70		
Dol.			90
Micrite	10		
chalk	100		
Micrite	50		
pellets			30
Skel		20	
Micrite	70		
Mudst	30		
Dol			90
Micr.	10		
Chalk	100		
Micrite	60		
pellets			30
Skel.		20	
mudst.	30		
Micrite	50		30
chalk	100		
Micrite	50		
pellets			30
Skel		20	
mudst	30		
Micrite	70		
chalk	100		

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
			Skel +									
8170		85	Accrec LS	Lt Br	Mic. Pellet + Micritic						Micrite	40
8180		15	Argillaceous LS	dk grey	with v. f. Skel. material - in part recrystallized in						Pellets, Lumps	
											Skel.	2
		5	Chalky LS	Cream	varying degrees.						Mudst.	30
					Argil LS - recrystallized						(Micrite)	
					with [redacted] xtls varying from						Micrite x/ls	10
					micrograin - fine & m. grained						Chalk	100
					- in part pyritized							
			Skel. +									
8180		85	Accrec LS		The Accrec. LS shows						Micrite	50
-8190		5	chalky LS		much less recrystallization						Pellets	
		10	Argill LS.		+ is interbedded micrite						Skel	2
		Trace - of			& micritic pellet						Mudst...	30
			Xtine Dol.		The argill. LS - is more						Micrite	70
					micrograined - + pyritized						Chalk	100
					in part. [redacted]						Dol W	Trace
			Skel +									
8190		85	Accrec LS	Lt Brn.	As above.						Micrite	70
-8200		5	chalky LS	Cream	The argill. LS in						Pellets	
		10	Argill. LS	dark grey	part is quite dark +						Skel.	20
					micritic - grading						Mudst	30
					+ micrograined -						Micrite	10
					some recrypt'd. noticed						Chalk	100
											[redacted]	
											Dol.	Trace
8210		90	Skel Accrec LS		As above						Micrite	70
-8220		5	Chalky LS								Pellets	
		5	Argil LS								Skel.	20
		Trace	Dolomite,	Xtine.							Mudst	20
[redacted]											Micrite	80
											Chalk	100
											[redacted]	
			Skel +									
8220		90	Accrec. LS		As above -						Micritic	60
8230		5	Argil LS.		Seems to be more						Pellets	
		5	Chalky LS		Micritic LS than						Skel	20
					the Mic. pellet						Mudst. Micrite Chalk	20 50 100
			Skel +									
8220		85	Accrec. LS.		Micritic LS. + smaller						Micrite.	80
8230		5	xtn Dol.		amts of micritic pellet.						Pellets.	
		10	Argil LS.		Argill. LS is varyingly dolomitic						Skel.	10
											Dol.	10
										Micrite	[redacted]	10
											Micrite	80
											Mudst.	20

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
8230		85	Skel/Sucrosic Ls	Buff-Brn	Micritic Skel pellet	Intergran					Trace Dol.			10
8240		5	Dol, xtine	gray	& Micritic Ls.						Micrite	50		
		10	chalky Ls	cream	Recrystallization						Pellets			
					& chalkification of the						Skel.			20
					micritic Ls in part -						Dol.			90
					Trace of O. staining and						Micrite	10		
					Trace of intergran ø - in the						Chalk		100	
					Calcite xtls.									
					The micrite shows varying									
					degrees of dolomitization									
					in part.									
			Skel &											
8240		95	Sucrosic Ls.		Micritic / Micritic						Micrite	50		
8250		Tr.	Dol. xtine		Skel & pellet Ls •						Skel			
		10	Chalky Ls		as above.						Pellets			
											dol.		10	
											Dol.			90
											micrite	10		
											chalk		100	
			Skel											
8250		90	& Sucrosic Ls.		Micritic / micritic skel pellet					Intergran.				
8260		5	Argil Ls.		Shows some chalkification						Micrite	50		
		5	chalky Ls		& recrystallization						Skel.			
					Trace of Intergran ø						Pellets			20
					Thin veinlets in filled with						Dolo.		10	
					Sparry calcite.						Micrite	70		
					Varying degrees of dolomitization						~~Micrite~~ Micrite dolo.	10		
					Small amt. Interbedded argil. Ls. -									20
					dolomitic						Chalk		100	
					~~Chalk~~									
											Micrite	60		
8260		85	Skel Sucrosic Ls	Gray	The argil. Ls is						Skel			
8270		10	Argil Ls.		dolomitic & micrograined						Pellets			20
		5	Chalk		micritic skel & micritic						Micrite	60		
					Ls.						dol.		20	
											Mudst	20		
											Chalk		100	
8270		90	Skel Sucrosic Ls.		Micritic Ls - Smaller amts					Intergran				
8280		5	Argil Ls		& Micritic Skel. / pellet Ls.						Micrite	70		
		5	Chalk		Shows varying degrees of						Skel			
					chalkification & recrystallization						Pellets, dol		5	10
					Trace of Intergran ø						Micrite	60		
					Trace of calcite crystals, in filling						dol.			20
					vugs						Mudst.	20		
											Chalk		100	

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DEPTH	QUALITY		ROCK NAME Ls.	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
8280		95	Micritic [illegible]	Lt Br.	Micritic ls with slight				Lt	Trace	Dol.	10
8290		5	XT= Dol.	gray	Skel / pellet - mild varying degrees of chalkification & recrystallization Trace of Live O - staining - also varying degrees of dolomitization						Micrite	60
											Skel	
											Pel.	15
											Dol.	80
											Micrite	20
8290												
-8300		100	Micritic LS	Lt Brn	As above. -						Micrite	70
		Tr	XT= Dol	gray							Skel	
											Pellet	10
											Dol.	10
8300		95	Micritic		Micritic Skel pellet						Micrite	70
8310			Skel.		LS. - small amts of						Skel.	10
		5	Argil LS		chalkification & recrystijn						Pel.	7
											dol.	10
											Micrite	60
											Mudst	20
											Dol.	20
8310		100	Micritic		As above						Micrite	55
8320			Skel.								Skel	
											Pellet	15
											Dol	10
8320		90	Micritic Skel	Lt Br.	Micritic ls mid						Micrite	70
8330		10	XT= Dol.	gray	minor amts of Skel material - show= varying degrees of chalkification + recrystallization						Skel	
											Pellets	
											Dol.	90
											Micrite	10
8330		100	Micritic Skel	Lt Br	As above						Micrite	60
8340			Trace of XT= Dol	gray							Skel.	
											Pellets	
											Dol.	90
											Micrite	10
8340		60	XT= Dol	gray	Interbedded XT= Dol.						Dol.	80
8350		40	Micritic Skel		& Micritic Skel.						Micrite.	20
											Skel	
											Pellets	
											Micrite	60

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
		70	Xtln.								Dol.	50
8350			DOLOMITE	grey	As above.						Micrite	20
8360			Micritic Skel		Calcite in filled veins & fractures – also						Skel	
		30			prof. some calcite infilled						Pellets	
					vugs.						Micrite	50
					The Ls. is dolomitized						Dol.	10
					in varying degrees.							
8360												
8370		85	Micritic Skel.								Dol.	60
		15	Dolomite		As above.						Micrite	20
											Skel.	
											Pellets	
											Micrite	50
											dol.	10
8370		90	Micritic Skel		As above.						Dol.	70
8380		10	DOLOMITE		Veinlets of fine filled Calcite						Micrite	20
					crystals – small amts						Skel	
					of granular limestone –						Pellet	
					which show traces of						Micrite	70
					live O. staining.						dol.	10
8380		90	Micritic Skel	Lt Br							Dol.	70
8390		5	Dolomite	grey	Micritic Skel shows						Micrite	20
		5	Argil LS	dk grey to br.	some chalkification and recrystallization. A few						Skel	
					Calcite filled vugs?						Pellets	
											Micrite	60
											Mudst.	20
											Micrite	60
											dol.	20
8390		85	Micritic Skel	Lt Br.	As above – with						Micrite	40
8400		15	Dol.	grey	a trace of dark						Skel	
		Trace	Arg. LS	brn.	brown, limy,						Pellets	
		Trace	Argill Dol	dk Brown	argillaceous dolomite						Dol.	80
											Micrite	20
											Mudst	30
											Micrite	50
											Dol.	20
8400		90	Micritic Skel Pellet LS	Lt Br.	As above.						Dol. Micrite	50 20
8410											Mudst	30
		5	Dol.	grey							Micrite	40
		5	Argill. Dol	dk Brown.							Skel Pellet	
											Micrite	20
											Dol	50
											Micrite	20
											Mudst	30

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
8410		90	Micritic		As above.						Micrite	50		
8420			p Skel Pellet		Some traces of						Skel.		30	20
		5	DoL xtne	Grey	bitumen in fine						pellet			20
		5	Argil Dol	dk br.	fractures						DoL		20	80
											Micrite	20		
											DoL.		50	
						Bitumen					Mudst.	30		
											Micrite	20		
8420		95	Micritic Skel		Micritic Skel / interbedded						Micrite	70		
8430	TR	TR	xtne DoL		Micritic LS - grading						Skel.		30	
		5	argil LS		to argillaceous LS, which						pellets			10
					has varying degrees of						DoL.		80	
					dolomitization. The						Micrite	20		
					thin Skel shows chalcification in						Micrite	60		
					~~[illegible]~~ part, +						Mudstone	20		
					~~[illegible]~~ a few calcite infilled						DoL.		20	
					vugs + fractures									
8430		80	Micritic Skel	Lt Br.										
8440		15	Argil LS.	grey &	As above. Some of	Intergran					Micrite	50		
		5	Chalk	cream.	the Micritic Skel. shows						Pellets			10
		TR	xtne DoL.	grey	some dolomitization.						Skel.		30	
					Trace of Intergran &						DoL.		10	
					possibly fine calcite filled						Micrite	60		
					vugs						Mudst.	20		
											DoL.		20	
											Chalk		100	
8440		90	Micritic Skel		As above.						Micrite	50		
8450		5	Argil Ls.								Pellets			10
		5	Chalk								Skel		30	
											DoL.		10	
											Micrite	60		
											Mudst.	20		
											DoL.		20	
											Chalk		100	
8450		90	Micritic Skel	Lt Br.	dk. br., argill dolomite -	Intergran					Micrite	55		
8460		5	Argil DoL	dk Br.	xtne., varyingly limy						Skel		30	
		<5	xtne DoL	grey	Trace of intergran						Pellets			15
					porosity in the grey xtne						DoL.		5	
					DoL						Mudst.	30		
											DoL.		50	
											Micrite	20		
											DoL			
											Micrite	20	80	

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	S .01 .03 .06 .1
8460		90	Micritic Skel		micritic Skel - which	Intergran	Ø				Micrite	20
8470		45	Dol. XT=	grey	grades to ~~fine~~			0'			Skel.	30
		5	Argil Dol.	dk Brn	~~to~~ argillaceous & dolomitic,						Dol.	80
					the Argillac. dol is						Micrite	20
					micro to v.f. granular,						Dol.	60
					lumpy argillaceous &						Mudst.	20
					somewhat pyritized - & with						Micrite	20
					~~Trace~~ traces of ~~[illegible]~~							
					intergranular Ø; ~~[illegible]~~							
					~~[illegible]~~							
8470		95	Micritic Skel.			Intergran					Micrite	60
-8480		Tr.	Dol. XT=		As above - The micritic	Ø					Skel.	30
		5	Argil Dol		Skel still contains fine						Mudst	5
					calcite fracturing, shows						Dol.	5
					some dedolitization + recrystallization						Mudst	20
					grades to argillaceous + dolomitic						Micrite	30
					in small part. The argil.						Dol.	50
					dolomite is micro to v.f. granular,							
					lumpy - with traces of							
					intergran Ø	Intergran						
						Ø						
8480		85	Dolomite XT=	grey	grey XT= dolomite -	Intergran					Micrite	60
-8490		15	Micritic Skel.		~~[illegible]~~ grades to micrograined	-Ø					Skel.	30
					to v.f. to f. grained.						Dol.	10
					Traces of intergran. Ø,						Dol.	40 20
					slightly calc., slightly						Micrite	20
					argillaceous						Mudstone	10
8490		10	Dol, XT=	grey	As above. - with						Dol.	90
-8500		5	Dol, argil.	dk Brn	traces of dk Brn,						Micrite	10
		85	Micrit. Skel.		argill, micrograin						Micrite	60
					Dolomite.						Skel.	20
					v.f. Skeletal material in						Dol.	10
					~~the~~ Ls.						Dol	50
					Traces of dark grey						Micrite	20
					waxy shale.						Mudstone	30
8500		100	Micrit Skel.		thin interbeds of a						Micrite	75
-8510					dark grey waxy shale						Skel	20
					The Ls. ~~[illegible]~~ same as						Dol.	5
					before - Skel with thin							
					veins, calcite infilled							

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DEPTH	QUALITY	ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
8510	100	Micritic Skel		Min. Skel as before						Micrite	65		
8520				Traces of dk brown -						Skel.			30
				argill. dol. - with traces of						Dol	5		
				~~[illegible]~~ - vuggy &									
				vuggy &									
8520	100	Micritic Skel											
8530	90	Dolomite,	grey	LS. As before						Micrite	65		
		XTLN								Skel			30
										Dol	5		
8530													
8540	15	DOL -	grey	The dolomite is is ~~[illegible]~~ XTLN - argillaceous	Intergran &			Dead Oil Stain		Micrite	60		
	85	Micritic Skel		and grades from						Skel.			
				micro grained to fig						Dol.	10		
				to sucrosic (in small pcs)						Dol.			30
				- Small traces of dead oil staining						Micrite	10		
				~~[illegible]~~ Matrix is						Mudst.	20		
				an argillaceous material									
				Traces of intergran &									
				partly pyritized.									
		Micritic Pellet &											
8540	90	Micritic Skel:	grey	Micritic Pellet &	Intergran. &					Micrite	45		
8550	10	DOL XTLN.	grey	Micritic Skel.	Dead OS.					Pellet/Lumps			40
				The dol. is XTLN -	sup. Bitumen					Skel.			20
				with small amts of						Dol	5		
				micro to ~~[illegible]~~						Dol.			20
				fracture to finely to						Micr.	10		
				medium granular.						Mudst	20		
				Small amts of sucrosic									
				& intergranular &									
				Dead oil staining - also									
				bitumen plugging the grains of									
				part									
8550	95	Micr Skel											
8560		Pellet		As above.	Intergran					Micrite	90		
	5	DOL.	Grey	Traces of inter	Dead OS.					Skel			20
				-granular & - DOL	sup Bitumen					Pellet			
				is a micro granular						Dol	5		
				to med. granular -									20
				most is tight argill./						Dol			
				bitumen in part.						Micr.	10		
										Mudst	20		

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
8560		95	Micritic	Lt Br	As above.	Intergran					Micrite	40
8570		5	Skel pellet		Traces of Intergran				dead		Skel	20
			Dol, xtine	gray	& Trace Bitumen +				Bitumen		Pellet	3
					dead O.S.						Dol	5
											Dol	30 20
											Mica	10
											Mudst	10
8570		95	Micritic	Lt Br.								
8580			Skel		As above.							
			pellets			Intergran					Micrite	35
					The dolomite is						Skel	40
		LS	Dol, xtine	gray	generally tight - with						Pellet	2
					traces of intergran.						Dol	5
											Dol	1602
											Mica.	10
											Mudst	10
8580			NO SAMPLE - PIPE WAS								STUCK	IN
8590												
8590		100	Micritic Skel	Lt Br.	Micritic Skeletal						Micrite	65
8600		Tr	Dolomite	gray	LS - chalkified +						skel.	20
					recrystallized in part,				Trace		chalk	5
					- trace of pyrobitumen				of pyrit.		Dol	Trace
					Trace of xtine, grey							
					dolomite.							
					Fine fracture + veins in LS infilled with Sp calcite							
8600					Trace of pyritization							
8610												
8600		100	Micrit. Skel	Lt Br	Micritic Skel. as						Micrite	65
8610		Tr	Argill LS	dk Br.	above.						Skel.	20
				-Bl	Trace of blocks - dk brown						chalk	5
					recrystallized, ~~fossiliferous~~							
					micrograin. LS, argillaceous							
					Trace of pyritization							
					Veins + fractures with Sp calcite							
8610		100	Micritic	Lt	As above.						Micrite	65
8620			Skel	Br	Traces of dolomitization						skel	30
		Tr.	Argil LS	dk Br - Bl							chalk	5
8620		30	Micritic Skel		Abundant recrystallized				Trace		micrite	60
8630			Pellet LS		LS, chalky to				pyritization		skel	30
		70	Rec Crystallized		micrograined; sparry calcite						Pellet	20
			LS.								micrite	10
		Tr.	Argill LS	dk Br.							chalk	60
				- Bl								

Chalky & ineffect.

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DEPTH	QUALITY		ROCK NAME	☑WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
8630					Top Man							
-8640		95	micritic Skel. Pellet Ls.	Lt Br. - Buff	Interbedded micritic Skel + micritic pellet Ls. - in all stages of chalkification + recrystallization - with xtls grading from micro gr. to f. + med grained; some chalky + intercrystl. + traces of intergran. Ø - generally ineffective.						micrite Skel pellet chalky micrite mudst.	50 20 30 60 40
		5	Argill. Ls.		Predom. to lt. argill. Ls as dense, micritic to micrograined.							
											Chalky & Intergrain Ø	
8650			Samples essentially as above one chip of micritic dol appears to be coated with heavy dead oil.									
8660		25	Micritic ls	brn	white sl. chalky. Tight.							25
		15	micrit dol.	brn	shadow pellets. tight. fractures cuttr.							
		20	Skel/pell ls.	wh/lt gy	calcite cement. tight							
		5	mic ls	dk brn	v f dol xtals.							
		35	mic ls	gy/brn	Skel & pell. cal cement.							
8670		30	micritic skel/pell	brn	calcite cement - occ. thin pyritic shaly b/s.							
		20	Chalky mic ls.									
		5	Shale blk		soft. sl calc.							
			micritic ls.									
		75	Skel & pell		as above.							
8650		10	micritic ls	dk brn	shadow pellets. tight							
		40	chalky mic ls (dol)		vugular. Skel material.							
		20	Pellet micrite bf.									pellets.
		10	wh (10% calc cem) micritic pellet bf		± 50% calcite cement - sl. chalky							
8690		5	Micritic ls. pyr 5%.									
			infill/wall blkx									
		5	micritic pell	dk brn	as above							
		90	micritic skel/pell ls. (bf)		ass as above							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
8700		15	micrite with vague pellets	brn	smooth. conchoidal frac. tight						pell micrite.	
		15	chalky mic pell/skel	gyr.								
		70	pelld-micrite	lt.	fine pellets in matrix of cryptocrystalline micrite.							
8710			Essentially as	above.								
8720		10	micrite/pel.	brn	smooth. microgranular matrix							.75 .25
		10	pellet-micrite	brn	as above.							
		5	chalky micrite	white	chalky micrite							
		75	micrite pellet	lt gyr. skel	calcite cement.							
8730			Ess as above.									
8740		Tr	Dol	gyr	chalk. fine dol rhombs in micrite matrix. intergran. porosity							
		15	micrite pell	brn	pell in matrix of cryptocrystalline micrite							
		5	chalky micrite		as above.							
		10	micritic pell	dk gy	pyritic sh pls.							
		30	pell/skel mic	crm	calc cem.							
		30	mic pellskel	crm	as above.							
8750		40	mic./pell. well interbds of mic skel	lt gyr	<5 calcite cement- pellets fine v/f-fine, tight.							
		10	mic pell	brn	vf fillers in cryptocrystalline matrix as above.							
8760			Essentially as	above.								
8770		15	Chalky micrite		as above.							
		75	pell micrite	gyr/lt brn	<5% calcite matrix cryptocrystalline micrite as above							
		10	mic pell									
8780			as above.									

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT .01 .03 .06
5790		10	micrit/pell		cryptograinomic. asabov.						
		10	variably chalky micrite.								
		50	pell skel mic & skel mic	cm/bf	~~cm~~ 5% calcite infilling pell vf-fine grained.						
5800		10	pellet-mic.	brn	50% pellets in matrix of cryptomicrite.						
		40	micrite/skel.	cm	60% skel. debris, marine mlk (chalk)						
		30	pellet micrite/ micritic pell		as above.						
5810		20	mic. bel.	brn	pellets in cryptomicrite						
		60	micrit/skel.	cm	skel frag. prob. stem in matrix of Tr. poor inter/frag porosity.						
		15	Tr pyrite nodules, chip massive dol		(cavings?)						
		15	micritic pellet								
5820		5	chalky mic.								
		15	pellet-mic.	brn	pellets in cryptomicrite						
		80	skeletal micrite bf. to pell mic		vfine to fine. sl chalky matrix (10%). minimal calcite cement. rare v poor intergran porosity.						
5830		5	chalky mic.		as above.						
		100	pell mic	brn	cryptic matrix as above						
		70	skel mic.	cm/bf	fine grained some calcite replacement						
		30	pell mic	cm/bf							
		5	micrite covered with	any/bf	material.						

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT .01 .03 .06
5940		5	chalky mic								40
			tr. pyrobit.								
		45	sbcl + pcl micrite		as above.						
5950			traces pyrobit.								
		30	mic pell.		20-40% pell in micrite matrix						
		40	mic sbcl.		spotted with bit						
		20	mic pell	dkbrn	as above.						
5960		20	micro/very	dkgy	pyrite inclusions						
			dol mic.								
		10	mic pcl	brn	as above						
		40	mic ~~pcl-sbcl~~								
		30	micrit-pcl.								
5970		30	pbcl mic	grn/brn	spotted with bit.						
		20	mic pell	brn	as above.						
		50	sbcl mic.								
5980			Sample as above.								
5990		20	pcl micrite	brn	crypto mic. matrix.						50 50
		15	chalk micrite	crm.							100
		40	sbcl mic	crm/lt.							
		25	mic pell.	brn							
6000		30	mic pell	brn	as above						
		=	chalky micrite								
			tr. pyrobit.								
		15	pcl mic + pbcl mic		interbedded.						
6010		20	sbcl mic.	crm/lt	traces interstitial bitumen.						40
		40	pell mic	brn	as above						
		20	chalky mic sbcl								
6020		40	mic sbcl	brn	abundant vf dol rhombs scattered throughout.						
		30	mic pcl		as above.						
		30	mic sbcl	blk/brn	as above.						
6030			Sample as above.								
6040		65	Covered.								
6070		10	mic pcl.	lt brn	crypto micrite matrix						
		30	sbcl mic	crm/lt							
		20	pcl micrite	"							

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8990		25	micrite pell	lt-bf	calcite replacement (<3%) sl chalky							
		20	mic pel	brn	crypto mic. matrix							
		55	skel mic	bf	bit infilling ± pt (<3%)							
9000			Micritic skel lms with interbedded pellety	cm/bf	occ. intergran. porosity (Tr). chalky in pt. occ blk tarry bits.							
9010		30	micritic pell.	bf/bm	20% pell in crypto matrix. sl. chalky. Tight -						skel	30
		50	mic skel.								mic	15 50
9020		20	microgr micritic		earthy lustre. tight - as above.							
		20	crypto mic pel									
		60	micrit skel									
9030		25	Dol.	dkgy/dkbrn	sl pel. microgr.							
		15	chalky micrite.									
		20	crypto micrite									
		40	micritic skel.		fine grained linear intergran ϕ							
9040		10	dol as above.									
		40	skel micrite	gy/bf	v f/f ins skels pel in micro/crypto micrite							
9050		15	mic pel.	lt-brn	crypto micrite as above							
		5	chalky micrite.									
		15	micritic pel	cm/gy								
		65	micritic skel.	cm-bf	fine skel frags in micrograined matrix.							
9060			as above									
9070			tr dkgy dol		(cuttings).							
		10	mic pel.	cm/bf	micro grained matrix.							
		90	mic skel	cm/bf	fine skel & pel frags.							
9080		5	micrograined do	dkgy	as above.							
		15	micritic skel		with pellet lenses. pinpoint micrite fill. medium frags.							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
9090		A0	micritic pel	lt-brn	micr/cryblo micrite.							
					will 20% v-f. pell.							
		10	dol dkgry	as	above.							
		30	mic skel.	cm/bf	sl chalky							
9100		40	micr pel	lt-brn	as above							
		60	mic skel.									
9110		30	micpel	lt-brn	as above							
		5	chalky micrite.									
		35	mic. skel	cm/bf								
9120			as above.									
9130		40	mic pel	lt-brn.								
		10	chalky micrite.									
		50	mic skel.		Tr. intergran Φ							
9140		5	Recrystalline	organic frags.								
		20	mic pel	as above.								
		75	mic skel	lt-brn/gry								5
9150		15	chalky micrite.									70
		60	micritic pel.	lt brn	vuggy pellds in cryblo matrix							20
		25	mic skel.		skel debris.							
9160		10	chalky micrite									10
		50	micrit pell	lt-brn	cryblo. matrix.							30
		40	micritic skel	bf/cm.								
9170		5	chalky micrite.									100
		50	micrit pel.	lt-brn.	cryblo mic matrix							70
		45	mic. skel.	cm.								70
		5	dol.		micrite.							100
			1 chip of bpelds									
9180		10	chalky micrite									100
		20	mic. pel	lt brn	as above.							70
		65	micritic skel		pell lms. chalky							100
					skeletic ptsg bitumin.							
9190		20	chalky micrite.									100
		80	micritic skel	lt/gry/bf.	chalky calcite							80
					cement. Tr intergran.							

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
9200			Sumble as above.									
9210			as above.		Sumble has an earthy lustre.							
9220		10	Chalk.									100
		70	Chalky micrite.		10% skeletal material.							~~50~~ 50
		20	micritic skel		calcilutites can be grey bf. ichnfr blk. in micritic arg. micrite.							~~50~~ 50
9230			as above.									
9240		100	Dolomite.	grybf	fair intercrystal-por & pinpoint	1%						40
9250		100	Dol as above.		prob. skel?							40
9260		40	Dol. as above.									40
		10	Pelld-lumpy lms.	lt-brn.								50
		20	Skeletal.		lt-grylsh chalky pp. porosity.							30
		30	Skel. mic									40
												60
9270		10	Chalk.									100
		10	chalky micrite.									50 50
		20	mic pel	bf	crybl grained.							50
		60	mic skel		as above.							50
9280			as above.									
9290		5	Chalk.									100
		20	chalky micrite.		scattered skel fragts.							30 40
		5	Dolomitic dol		good intercrystal-por.							
		70	micritic skel		chalky micro matrix earthy lustre.							
9300		20	Chalk.									100
		20	chalky micrite		as above							50 40
		60	micritic skel		chalky grey earthy lustre tight.							30 40
9310			as above									
9320		10	Chalk									100
		25	chalky micrite		as above.							10 40
		30	crybl micrite									60
		35	~~5~~ mic. skel.		as above. chalk							50

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
9330		5	chalk.									IVD
		5	chalky micrite.									60 40
		10	mic pel.		crypto micrite. scat.							50
					accret. frag.							
		50	chalky mic skel grst/bf.									65
9340			Ess as above.									
9350		40	micritic skel	lt brn	crypto micrite with							50
		10	micrite.	grr	vague acc. mat. crypto. calcite veins							IVD.
		50	chalky mic skel recrystd grst/bf		Tight.							40 30
9360.			as above.									
9370		5	Chalk.									IVD
		15	chalky micrite		scat skel debris							40 40
			ichib. sl. dolic		dol.							
		50	micritic pell	lt brn	vague pellet-outlines							60
					in crypto micrite.							
		30	micritic skel bf.		chalky earthy luster.							35 35
9380		40	Dolomite	grybf	xgsbalkine good intrxgl + bp porosity							
		25	chalky micrite as above									40 40
		35	micritic pel/skel	lt brn	crypto matrix.							50 20
9390		10	Chalk.									IVD
		20	chalky micritic	lmy.	skeletal frags. lt gry							40 40
					traces of skeletal bio							
					esoza grains mixed							
					with bituminous.							
		50	dolomite		as above.							70
		30	brn micritic pel/skel		crypto matrix.							
9400			as above.									
9410		100	micritic pelle-	brn	crypto matrix.							70
			skel lmy.		dense tight							
9420			Sample as above.									
			5-10% chalky micrite - probable cavings.									

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DEPTH	QUALITY		ROCK NAME	☐ WET ☐ DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
9A30		40	crypto mic skel/pel		as above.							70
		10	chalk									100
			Trace sugh blk		bit shale (2 chips).							
		50	chalky micrite		pel/skel? lms.							70
9A40		10	dol. dk brn		micrite.							
		50	micritic lms brn		grease lustre in bl traces of pellet material.							
		10	chalky lms		micrite.							
		30	chalky micrite lms									
9A50		60	Micritic skel lms brn		crypto grained. scattered skel. frags.							55
		20	micr/skel lms gry		chalky Tr interxen por. recrystals in bl. angular cuttings of brn micrit/lms may include bonzas in base shattered by bit Very dense tight.							30 10
9A60		65	micritic lms brn		crypto. dense hard							90
		15	chalk.									100
		20	micritic skel lms	gry/wh	occ. pyrite tight.							40
9A70			Essex as above.									
9A80			Same components as above									
9A90		20	micritic lms. brn		crypto. dense tight. Zc as will micro dol. plg.							
		10	chalk.		brn.							
			1 chip. blue green/sub waxy shale									
		20	micritic skel	gry/brn	.							
9500		10	Dolomite	gry/brn	micrograined. trace ovals.							100
		50	micritic lms brn		as above							90
		10	skeletal micritic lms.									30

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
9510		60	micritic ls		cryptogrannd dense.							
		5	chalk		tight-							
		10	dolo.		as above. grading to fine xgt							
		10	sl chalky micritic skel.									
		5	traces of brn pellet micrite.									
9520			Dolomite.	gry bf	xgsballine sl petroliferous. Tight.							20
9530		50	Dolomite		as above.							
		20	micritic ls		sl chalky shell frags & traces of pellet-mollusk							
9540		15	chalk & chalky micrite.									
		30	micritic ls	brn	cryptd. dense: tight.							
		10	grey sl dolomitic micritic ls:									
		25	chalky micritic ls as above									100
9550		70	micritic ls		as above							
		30	Chalk & chalky micrite.									
9560		40	micritic ls	brn	as above							
		40	chalk & chalky micrite									
		5	dol.		f xgst micrite. with grn dolmic.							
		15	micritic shell									
9570			Similar as above.									
			+ chlk blk bit-dol.									
			+ chlk gry-grn sl arg dol.									
9580			Essentially as above (tr. blk carbonaceous bit grnish arg ls.)									
9590			as above									
9600		60	Micritic ls	brn	cryptogranned as above							100
		10	chalk.									100
		10	chalky micrite									50 50
		20	granular micritic ls crn bf. (unknown)									20
			Tr. dol.									

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
9610			Essentially as above											
												100		
9670		15	Chalk									20		80
		10	chalky micrite	grn	com									
			dolomite											
		5	Tr coarsely xtgl- dol.		cm.									
		70	micritic lms		cryptocrystalline as above									
9630			Essentially as above.											
9640			crypto micrite & chalk as above											
												100		
9650		15	Chalk									70		
		10	chalky micrite									40		
		10	dolomite		cmly xgllin.							100		
		65	micritic lms		bcm as above.									
												60		
9660		10	Dol micrite	grn	grngrn. slurry. scat. sbcl? frags.									
												100		
		5	chalk									40		
			Tr xtgl dol as above.									100		
			Tr greenish clay											
			lenoid crystals											
		5	chalky micrite.									60	50	
		60	micritic lms		crypto as above							100		
9670			Ess as above											
												100		
9680		15	chalk									40		
			chalky dol											
			chalky											
			Tr grn/gry xtgl-dol. brnlitic bit.											
		5	chalky micrite											
		5	chalky sbcl micrite.											
		75	micritic lms.		crypto.									
9690			as above											
9700		15	chalk									100		
		20	chalky micrite									40	10	
		65	micritic lms		crypto as above.								60	10
9710			Ess as above.		1 chip lt-dkgrn-grnish gry calc shale clay									

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DEPTH	QUALITY		ROCK NAME	☐WET ☐DRY COLOR	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
9720		60	micritic lms	brn.	crypto dense light-							100		
		15	chalk.									100		
		20	chalky micrit-	gry/bf	tr. skel? frags.							40		
			lms.		incipient dolo. tr.									
					I/G. porosity.		Tr	IX						
		5	chalky micrite.									50	50	
9730		20	chalk.									100		
		20?	Dolo.	pale gr	fine grain micrite with								60	
					relic skel material.									
		10?	micritic skel	gry/bf	incipient-dolomitization		Tr		IX.					
					tr inter xgl. por.									
		40	micritic lms	lt brn	crypto as above.							100		
		10	chalky micrite.									50	50	
9740			Essentially as above.											
9750		15	Chalk									100		
		10	skeletal micrite	lt-gry	skel? frags in matrix								30	
					of fine micrite									
		75	micritic lms		crypto as above.							100		
												100		
		15	chalk.									50		
		10	chalky micrite.									100		
		75	micritic lms		crypto grained									
9760		60?	Dolomite	gry/bf	finely xgst Tr								50	
					IX porosity							100		
		15	chalky chalky micrite.										50	
		10	micritic skel (trace pel).									100		
		15	micritic lms		crypto as above.									
9770														
9780			Dolomite.	lt gry/brn	vf.-fine xgl.								50	
					IX or pp porosity.									
9790		40	Dolomite	as above								100		
		20	" white	glassy rubbles to be re crushed.										
					crypto xgl.									
		40	Dol.	gry/brn. coarsely xgl. good vug										
					porosity limited with large									
					dol xgls. Trace bit spilling.									

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
9800		70	Dol as above									30
		30	chalk & chalky micrite.									100
9810		80	micritic lms	lt brn -	crypto.							
		20	chalk & chalky micrite.									
		40?	Dolo.	ltgy brn	micro - vf x gst - tight.							
9820		30	Dol. as above		interbedded with							50
		60	micritic stks lms		sl chalky							60
		10	Chalk.									100
9830		100?	Dolomite	gy/brn	fine-/med xgsalline fair/good IX - vuggy porosity 25% sec. white dol.							70
9840.		100	Dol..									
			30% dol.	gry								
			70 dol	white	probably secondary. recrystallized coarsely xgsalline.		10%		IX.			
9850		100	Dolomite	~~gry~~								
			60% "	gray	med xtine - some f/good IntraXt= & Traces of Bitum. in filling	IX	10		~~Fair~~			20
			40% "	white	Coarsely XT=.							
9860		100	Dolomite									
			70%	gray	fine - med - Coarsely xtn sl. calc. fair/good IntraXTs & Traces of bitumen. infilling		P-10		IntraXT= &			5
			30%	white	Coarsely XT=.							
			Trace - micrite	Lt Brn								
			micritic pellet									
9870		100	Dol									
			as above.									
9880		100	Dol.									
			~~Chalky~~ 30%	gray	fine-/med. XT= generally tight - a little IntraXtal &					IntraX. &		
			70%	white	- as above - med-to Coarsely XT=. Tight - Traces of IXT= &							
9890		100	Dol.									
			80 %	gray	f-med XT= - essentially Tight Traces of bitum. in filling							5
			20 %	white	med - coarsely XT= Tight							

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DEPTH	QUALITY	%	ROCK NAME	☑WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .0
9900		100	Dol.									
		90%		grey	fine - med XT= - essentially tight, traces of mtx XT= ⊖, Trace bit. infilling							
		10%		wh.	med XT=.							
9910		100	Dol as above		as above ~~Bot~~ Dk grey dol hrd, Trace of angul							
9920		100	Dol.									
		90%		grey	- fine - med XT= f-I-XT= ⊖, bitum. ~~Trace of~~ Trace of pyritiz.=	I-XT=						
		10%		white	med XT= Trace of clear Dol XTLS ~~glassy~~							
9930		100	Dol		as above							
9940		100	Dol	Lt grey	f - med XT= essentially tight trace bitum. infilling ⊕ pyritiz.= Trace of glassy Dol. XTLS							
9950		100	Dol		Lt grey - as above with Traces of micritic ls. Trace of white XT= Dol. Trace of dead oil staining					Dead Tr.		
9960		100	Dol		as above							
9970		100	Dol.									
		95%		Lt grey	- f - med XT= as above.							
		5%		white	med XT=.							
9980		100	Dol	Lt grey	as above Traces of I-XT= ⊕ Traces of white XT= Dol							
9990		100	Dol	Lt grey	As above. - Shale Cmt I-XT= ⊖, ⊕ Some Bitum. Infilling	I-XT=						

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DEPTH	QUALITY	ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
											5
10020	100	Dol 90%	Lt grey -	f - med XTne - some [illegible] vugs - infilled with Coarsely XTne Dol XTS L small amt of fine inter XTne O.- infilled bitum.	I-XT						
		10%	White -	med to Coarsely XTne.							
10010	100	Dol. 95% 5%	Lt grey white	As above. Trace of dead oil Small amt bitum.							
10020	100	Dol.	Lt grey to grey white	fine to med XTne slightly argillaceous slightly pyritized Trace of Idiote XTne dolomite						Dol Mudst	5. 5
10030	100	Dol - 80% 20%	Lt grey to grey white	- fine to med XTne to Coarsely XTne slightly argil slight pyritization Some I-XTne porosity	I-XTne					Dol Mudst	5 5
10040	100	Dol. as above.		Traces of solid bitumen - infilling [illegible] dolomite rhombs							
10050	100	Dolomite as above.		fine to medium XTne - some [illegible] trace of [illegible], Vert - oil stained Dol.	I-XTne						
10060	100	Dol. 70%	dk Br. -	med. to Coarsely XTne - some [illegible] occurring often as dk. brown rhombs [illegible] together with finely XTne, lt. grey dolomite.							5
		30%	lt. grey to gy. white.	as before. The dk. br. dol. occurs in patches in the grey dol.							

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DEPTH	QUALITY	%	ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01	.03	.06
10070		100	Dol.		as before, med						Mic	5		
		30%	" - dk brown		to coarsely XT^{me}	•					Mudst	5	5	
		10%	"		white — clean, clean, med to coarsely XT^{me},	I-XT$^{=}$					Dol.			
		60%	lt. gray to gray white		— fine to med. XT$^{=}$ sl. argil, sl. calcareous Some I-XT$^{=}$ porosity									
10080		100	Dol.								Mic	5		
		15%			LCBr. — occurs in "patches" with the interbedded grey Dol —						Mudst Dol.	5		
		85%	lt grey to gr. wh.		— as above.									
			Trace of Micritic, pellet, Skel LS.											
10090		100	Dol.											
		5%			dk Br. as above									
		95%	lt gr. to fr wh.		as above									
			Trace of Micritic-pellet Skel.											
10100		100	Dol. as above. with Trace of Mic. pellet LS.											
10110		100	Dol.	lt to										
		90%	dk gray to white		— fine to med XT$^{=}$ — some finely sucrosic some inter XT$^{=}$ porosity some vug. porosity —						Mic. Dol.	5		
		5%												
		5%	dk Brn.											
10120		100	Dol. lt to dk gray to a little white		— as above.									
			Trace of Dk Brn.											

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
10122		(60)	DOL.	lt	Core # 12. 10122-10147.						Dol.	
ft.			to	dk	Med. XT= , argil in part						Mudst	10
10135 ft				gray	with tight, interlocking XTs						chert	
Rec 7					very brecciated in appearance, with							
					numerous fractures and vugs.							
					Vugs: pin-point to 3" in diam							
					infilled with coarse euhedral							
					dol XTs. Some fractures							
					+ voids infilled with microxline							
					white chert? - (or silicified dolomite?)							
10135		(60)	DOL.	gray	Banded light + dark							
to					gray dol. - laminated appearance							
10136					Several large vugs 2"-3" diam. infilled							
					with coarse euhedral crystals.							
10136		(60)	DOL.	gray	Brecciated in appearance							
to					as before numerous							
10144					vugs as before. The							
					matrix is essentially dense							
					and tight, XT= dolomite							
					No oil staining							
10144		(60)	DOL.	gray	Med to coarse XT=							
to					suggests a vuggy, dolomitized							
10147					organic framework or							
					lattice ?? with							
					excellent solution +							
					vug + some I-XT=							
					porosity.	Vug						
						I-XT=						
10150		95	DOL	lt	Med. to coarsely XT=	Vug					DOL.	
				dk gy	essentially tight limestone with							
					vug porosity - infilled dol							
					dolomite. ~~Poor staining~~							
		5	Micritic pellet	lt	Micrite + micrite pellet						mic.	60
				Br.	One chip looks algal						Pellet	
10161		95	DOL	lt	As above							
				gray	to dk gy. Trace of							
		5	- Trace of		Micrite - or vuggy							
			Micrite		algal							
10170		95	DOL	LTGY	As above							
		5	Mic. Pellet	dk Br.	Trace of - dk brown -							
					Mic pellet - similar							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
10180		80	Dol.	lt gray	anhs - some in		X	±			Dol.	
					Med Crypt - cement							
		20	Dol.	dk gray	- argillaceous						Dol.	%
											Anhs	10
10190		100	Dol.	Lt gy.	Med. to Coarsely	I-X						
					XT= . cement	V.						
					light - some I-XT=							
					+ Vugs							
10200		100	Dol.	lt gy	As above							
					with small addnl							
					1 vug ±	V.						
					Slight pyritization							
					Few chunks of dk. gray dol.							
10210		100	Dol	"	As above							
10220		100	Dol	"	As above.							
10230		100	Dol	lt gy wh	Med. to some	Vugs						
			to.	Lt.	Coarse XT= -							
			Trace of	dk gy	light - some							
			Mic. Anh.		vug ±							
		TR	Shale	Bl	- interbedded - blade,							
10240		95	Dol as	above with 5% dk gray, argil								
		5	Mic. pellet	Br.	Mic. pellet - with							
			Skel.		some mic Skel.							
					Trace of blade							
					sl. soft shale							
10250		95	Dol. as above - with 5% dk gray,									
		5	Mic. pellet		argil dolomitic							
			Skel.		interbedded - soft ish							
		TR	Shale	Bl								
10260		95	Dol	Lt gy-wh	as above.							
		5	Mic. Skel									
			pellet									
10270		95	Dol.	lt gy-wh.	Med - to Coarsely							
		5%	Dol -	dk gray	XT= - trace of dk							
			as above.		gray Dol. -							
					light, lt to some							
					vug. ±							
		5	Mic pellet									
		TR	Shale	Bl	- as above - sl.							
					pyritized as above							

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DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
10280		95	Dol	Lt gy-wh.	med. to some coarsely XTs - slight pyritization							
		5	Dolomite.	Micr.	- no carbonate argill. Traces of poor Vug ☆							
		Trace	Micrite Skel. Pellet		interbedded dolt, somewhat							
		Trace of	Shale		- ~~dolomitic mudstone~~ ~~dolt + Sh~~ finely pyritized in part							
10290		100	Dol	Lt gy-wh.	- as above							
		Trace of	Micritic LS	Br.	interbedded, blade, somewhat pyritized							
		TR	Shale	Bl								
10300		100	Dol	Lt gy-white	- XTs as before							
		TR	Micr. pellet	Bf								
		TR	Shale	Bl	- interbedded sl. dolt, sl. pyritized								
10310		100	Dol	Lt gy-wh.	med XTs - as before small amt of							
		TR	Micr. Sk.	Br-Buff								
		TR	Shale	Black	vug ☆ interbedded as before.							
10320		100	Dol	Lt gy-wh	med to coarsely XTs as before - with small amt of interbedded dark grey Sh.		V I-X ☆					
		TR	Micr pell. Sk	Buff								
10330		100	Dol	Lt gy-wh	as above. some poor I-X + Vug ☆		I-X V					
		TR	Micr. pellet	Buff								
10340		100	Dol	Lt gy	as above		I-X V					
		TR	Micrite	dk	- sl. bituminous							
		TR		Br	some poor I-X + Vug ☆							
10350		100	Dol.	Lt gy	med - Coarsely XT I-X V some I-X + Vug ☆							

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DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
10360		100	Dol	Lt gy	med - to coarse	V.					
			Tr. dolomite clkgy		Coarsely XT= 10%	I-X					
					vug. P. Small amts of interbedded dk. brn						
					[illegible]						
		TR	Mica Pellet	Buff	Br.						
10370		100	Dol.	Lt gy.	Dol as above -						
		TR	- Mica - Skel								
10380			No SAMPLE								
10390		95	Dolomite	Lt grey.	Med to Coarsely XT=	V					
		10%	Dolomite	dark. grey	- in part sl. pyritic?	Iv					
		5	Mica. Pellet	Buff-Br.	- in part, sl. bituminous						
		5	Mudstone	Br-Blk	- somewhat blocky + soft						
10400		100	Dolomite		med - Coarse XT=						
			95%	Lt gy.	as above.						
			5%	dk. g							
		TR	- Mica. Sk. Pell	Buff-Br.							
		TR	Mudstone	Br-Blk	as above.						
10410		100	Dol - 90%	lt gy-wh	med XT=						
			Dol 10%	dk-gy	- argil - med XT= - + grading to Shale						
					Trace of Shale - XT= argil Dol						
			<5% + Trace of	white	Trace pyritization.						
			chert -		Silicified crypto XTine dol.						
10420			Dol 95%	lt gy-white	+- to m. grained X,						
			Dol - 5%	dk gy.							
		TR	- Limestone	- Br - bi	- dolomitic						
		TR	Micritic LS	- Lt Br.							
		TR	chert -		crypto X						
10430		95	Dol.								
		95%		Lt gy-wh.							
		5%		dk gy-blk	- argillaceous						
		5	Micritic pellet	buff-br.							
10440			Dol.		f- to m. X						
				lt gy-wh-tr grey							
		5%	Dol -	Br-Blk	- argill - med X= grades to a dol. - shale.						
		TR	Mica. Skel.								

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10450		Dol.	Lt gy-wh.	f - med X, tight						
	TR	Dol	Br-Bl	med X - argill						
	TR	Mic. Skel.								
	TR	chert	white	cryptoX dol.						
10460	100	Dol. 80%	Dk Br	med X tight with sec. wh. dol.						
		20%	Lt gy	med X						
10470		Dol.								
	95	"	Lt gy-wh.	as above						
	5	5% Dol.	Br Bl.	argill - sucrosic						
	TR	Mica. Skel	Buff							
10480	100	Dol	Lt gy to gy-wh.	med to Coarsely XT						
	TR	Dol	Br-Bl	argillaceous sucrosic						
10490	75	Dol - gy-wh		med to coarse XT						
	25	Mudst. - Br Bl		dolomitic, XTine in part						
	TR	5% Dol	Br Bl	XT - argill.						
	TR	chert	white	cryptoX.						
10500	100	Dol. - Lt gy-gy.		med - Coarse XT tight						
	TR	Dol -	dk gy	argil						
	TR	chert	wh							
10510	100	Dol - Lt gy-gy wh.		as above.						
	TR	Mudst DkBr.		in part Dol.						
10520	100	Dol. Lt gy - wh.		f - med X tight						
10530	100	Dol. Lt gy -	white	as above						
	TR	- chert	wh	- cryptoX						
10540	100	Dol	Lt gy-wh	as above						
	TR	Mica	Bll Buff							
10550	100	Dol	Lt gy-wh.	f - to med to						
		with TR	gy Dol	some Coarsely X						
	TR	Chert	wh							
	TR	Mic pellet	Buff Br							

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DEPTH	QUALITY	ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
10560	100	DOL. Ltgy-wh-		f-med-coarse xtln - TR. Vuggy ✓							
	TR	Chert	Wh.	glassy							
10570	100	DOL - Ltgy-wh		as above							
	TR	- Mic pellet -	Buff								
	TR	Mudst	DK-lt	- dolomitic							
	TR	chert	wh								
10580	100	DOL - Ltgy-wh		as above							
	TR	Mudst -	dk gray,	waxy							
	TR	Mic Skel	Buff-Brn								
	TR	Chert	wh								
	TR	- Ltgy	translucent								
10590	95	DOL	Ltgray-wh	Xtne as above							
	5	Mudstone	dkgray -	waxy							
		X or less									
	TR	Chert	wh	as above							
10600	100	DOL	Ltgy-wh	XTL = as above							
	TR	chert	wh	Crypto X →							
10610	100	DOL	Ltgy.	As before							
10620	100	DOL	Ltgy	as above							
				Trace f/por I-X ✓							
10630	100										
		DOL - 85%	dkgy	→ with sec. wh.							
		DOL 15%		dol. med X							
				Slightly argill. DOL.						Mudst.	
				(gray-wh. med X - as above							
	TR	Chert	wh	→ prob. silicified dol.							
	TR	Micrite.									
10640			dk gray								
	100	DOL 90%		- med X. with							
				sec. wh. dol. slightly						Mudst	
	TR	chert	wh	→ silicified dol. argil.							
		DOL. 10%	Gy-wh	- XTne - med to coarse							
	TR	mic pellet	Buff-Brn.								
										DOL.	
10650	100	DOL - 90%	dkgy-brn	med X to coarse X - showing						Mudstone	TR
				some Sec wh. dol X+LS							
	5%	Silicified Dol.		contains very slight							
				intergran. porosity							
				small amt silicified dol,							
	5%	Ltgray Dol.		coarsely granular							
				as before dark brown, calcitized dol X+LS							

AUTHOR _____ DATE _____ FORM _____

DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	.01 .03 .06
10660		10%	Dol.	dk gray	Fossiliferous.							
		to		to Lt Brn.	dol. Crypt. to some well formed							
					dk-brn. euhedral dol xtls, v. sl. argill.						Mudstone.	TR.
		TR	Mudst.	dk gray	- gray waxy Shale.							
		TR	Micritic ls	Buff Brn.								
		TR	- Dol -	Lt gray	- xtline.							
		TR	Silicified Dol	white	crypto X							
10670			Dol.	dk gray	grades from gray to		I-X-					
			to	dk Brown	dk brown / some sec. wh.							
					dol. xtline v. sl. argil., shows some							
					I-X porosity							
		TR	Mudst	dk gr-green	Somewhat waxy shale.							
		TR	Micr. LS		(fine-med to some Coarse)							
					X tline							
10680		90%	Dol	dk-Brn., med to coarsely Xtline								
			95%		with well formed							
					euhedral Crystals in part							
					with sec wh. dol. xtls in							
					various gradations scattered vugs							
			5% Dol.	Lt gray	- coarse to med. Xtline							
					with in filling,							
					white euhedral dol. xtls,							
		5%	Mic. pellet ls	Buff Br.	- in part dolomitic							
		5%	- Mudstone	gray-green	- waxy							
			and	gray	- rather soft -							
10690		90%	Dol	dk Brn - to	as above - with							
				dk gray	varying degrees of							
					sec wh. dol.							
		<5%	Mudstone	gray	- rather soft, blocky							
		5%	Micritic Pellet									
10700		100%	Dol	dk gy/gy brn.	f. to m. Xtline, showing							
					sec. white recryst, slightly							
					argillaceous, grains,							
					in part are not v. well cemented - rather friable,							
					some brn. euhedral xtls - trace of Intercrystalline							
		TR	- Dol -	white	silicified cryptoX							
		TR	Mudst -	gray	- rather soft, sl. waxy, showing							
					some pyritization							
		TR	Mudst	dk brn	- soft,							
		TR	Mic. ls									

AUTHOR _____ DATE _____ FORM _____

DEPTH	QUALITY		ROCK NAME	☐ WET COLOR ☐ DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT		.01 .03 .0
10710		10%	Dol.	dk-bn/gr	ff - med. to some C.XT= showing some sec. white dol. x+ls, sl. argil.	I-X							
		TR	Mudstone	dk-bn/dk-gr-bn,	soft, rather earthy								
		TR	Micritic/Micr. Pellet LS.	Buff-Bn.									
10720		10%	Dol	dk gr/dk bn.	f - med. to some C. XT= some coarse, euhedral dk-bn. dol. x+ls; shows some sec wh. dol XT=; sl. argil.	I-X.							
		TR	Mudst.	dk-gr-bn.	soft, earthy								
		TR	Micr. LS.	Bf-bn.	the lighter grey is softer friable, shows fair I-X ø.	dol							
		TR	Mudstone	dk gr-bn	soft, earthy.								
		TR	Micr. pellet LS	Bf-Bn.									
10730		10%	Dol.	dk gy	ff-mf XT= (some med. XT=), argillaceous	I-f					Mudst.	20	
					some sec. wh. Dol; This is a finer XT= dol. than before & more argill. - this which tends to give the dol. a dk grey & white appearance.	T=							
		TR	Micr. pellet										
		TR	Mudstone	dk gy/gn.	sl. soft & earthy								
10740		(No Sample)											
10735		10%	Dol.	gy/lt gy	f. to m. XT. sl. argil. in part friable & not v. cemented, some sec. wh. dol, trace of I-X ø	I-X					Mudst.	10	
		TR	Micr. pellet	Buff-Bn.	Trace of white, Si. dolomite, C. XT=								

AUTHOR _____ DATE _____ FORM _____

DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT .01 .03 .06
10750		100	Dol	dk gry	~~dk~~ med XT, sl. argil in part friable, not well cemented w. varying amts sec. wh. dol + some I-X ϕ	I-X					
		TR	Limestone	dk Brn - salty earthy and		V.					
		TR	"	gy-wh. (soft & v. soft							
		TR	Cht	wh	- massive						
		TR	Micr-Skel		Traces I-X, Vug ϕ						
10760		100	Dol	dk gy-bn	- med XT= - sl argill; tight - w. Traces of T-X ϕ, some sec. recryst.=	I-X					
		TR	Mic LS								
10770		100	Dol.	dk gy/bn	- As above - some FE well formed euhedral dol XTl's - traces of vugs - with infilled coarse, white dol. rhombs	ϕ V+I ϕ Vug I-X					
		TR	Mic. LS								
10780		100	Dol	dk gy/bn	- med/coarse XT= as above - some sec. wh. dol fracture fillings Aver. good I-X ϕ - Traces of good Vug ϕ v. sl. argil.	I-X V.					
10790		100	Dol	dk gy/bn	As above	Traces					
10800			Dol	dk gy/bn	As above	I-X V					
		TR	LS	wh	- chalky						
		TR	Micritic LS	Buff-bn							
10810		100	Dol	dk gy/bn	as above Tight - w. traces of vug ϕ I-X ϕ	I-X V					
10820		100	Dol	dk gy.	As above						
		Tr	Mic. LS	Buff-bn.							

AUTHOR _____ DATE _____ FORM _____

DEPTH	QUALITY		ROCK NAME	WET / COLOR / DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	SI .01 .03 .06 .12
10830		100	Dol - 5%	Lt gy	f to med. interlocking Dol. f XT's with Traces of V. coarse clear well rounded qtz grains	Vug	Tr				Dol. Qtz. Undet	5
			Dol 95%	gry - Lt to - dk gry	f - med XT's - v. sl. dolomitic argil. - Traces of vug ⊕							
		TR	Micritic ls	Bf-Brn.								
10840		100	Dol 95%	Lt gy	f. to m. XT's.						Dol.	
			Dol <5% dk gy		with Traces of v. coarse clear qtz grains well rounded						Qtz	
		TR	Micr ls		→ As before - Tight							
10850		100	Dol.	Lt gy.	to white - showing recrystallized? with Traces of clear, v.c. well rounded Qtz grains Tight						Dol. Qtz	
		TR	Micr-ls.									
10860		100	Dol	Lt gy	-gy/white - f to m XT's with numerous v.c. clear, well-rounded Qtz X grains						Dol. Qtz	
10870		100	Dol.	Lt gy to gy-wh.	white - as above - with containing numerous, clear v.c. well rounded qtz sand grains						Dol Qtz.	
10880		100	Dol.		as above							
10885		100	Dol		as above							
10890		100	Dol		as above							
10900			Dol		as above							

AUTHOR _____ DATE _____ FORM _____

DEPTH	QUALITY		ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT	C .01	C .03	M .08	F
10910			Dol.	Ltgy-wh	– mod XTL tight with interlocking XTLS, containing clear, well-rounded to sub-rounded to sub-angular, Coarse to						dolomite qtz				
		GR–Microfels	BF-Brn	V-C. quartz grains											
10920			Dol as above.		containing embedded qtz. grains as above.										

AUTHOR Wmy DATE May 3 '66 FORM

DEPTH	QUALITY	ROCK NAME	☐WET COLOR ☐DRY	REMARKS SEDIMENTARY STRUCTURES, DIAGENESIS, ENVIRONMENT, FRACTURES, ETC.	POROSITY TYPE	POROSITY %	POROSITY NET FT.	STAIN TYPE	STAIN AMT.	COMPONENT
		Core #	13	10942 – 10968						
~~10942~~										
10942		Dolomite	gray	f. to m. Xtn with interlocking dol Xtls. Clear and light gl. argillaceous with floating quartz silt and sand grains – well rounded & subrounded; scattered patches of white recrystallized dolomite; slight fracturing – with fine to silt filled with white recrystallized dolomite. Some of fractures contain dark small vugs, infilled with dol. shards.						Quartz Dol. Mudst
10968										
10968				F.T.D						

Section III - ENGINEERING SUMMARY

a) Report of Drill Stem Tests

D.S.T. #1 (Bear Rock) 10370-10424 VO 60, SI 60 & 60 mins.
Recovered 150' of mud, 375' of muddy salt water.
HP 5109-5090; FP 229-317; SIP 4052-3695. (Field Pressures)

D.S.T. #2 (Bear Rock) 10595-10655 Misrun Seat failed
Used and recovered 700' of water cushion. Recovered
500' of fluid.

D.S.T. #3 (Bear Rock) 9823-9883 Misrun. Seat failed.
Recovered 600' of mud.

D.S.T. #4 (Bear Rock) 9837-9896 VO 60, SI 60 & 60 mins.
Recovered 2127' of salt water and 2130' of mud.
HP 4921-4884; FP 246-1074; SIP 4164-4138 (Field Pressures)

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

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JOHNSTON-TESTERS

Pressure Log*

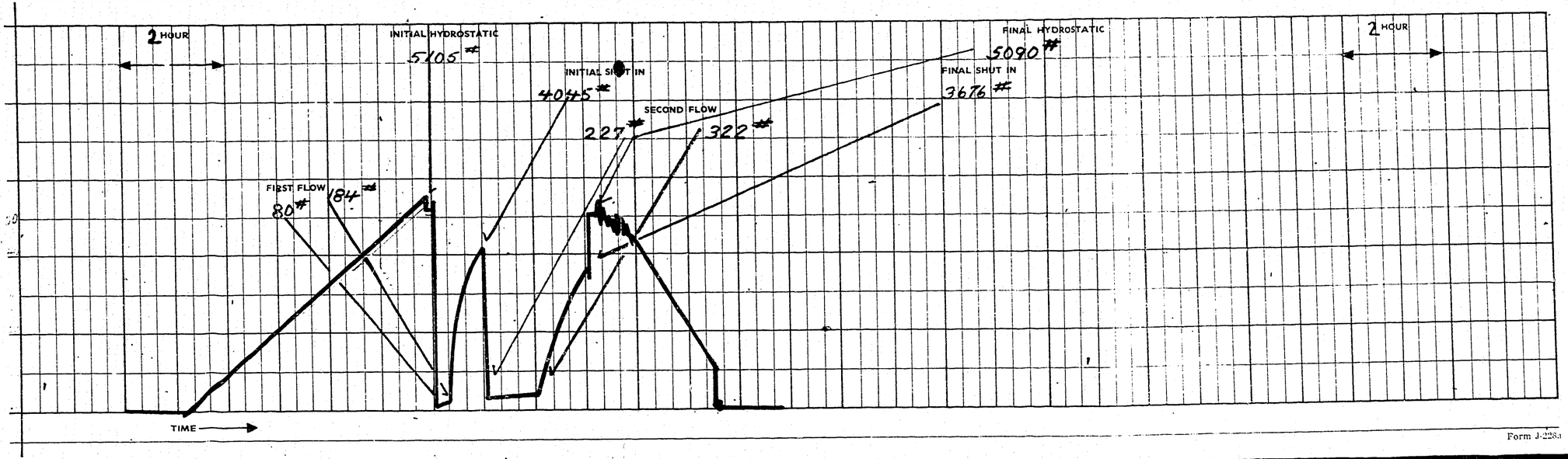
Field Report No. C8477

Instrument: Number AKI-1877

Capacity 7300 p.s.i.

Depth 10398 ft.

* a continuous tracing of the original chart



Form J-228a

JTL-CD-4

JOHNSTON TESTERS

TEST DATA

Formation	BALD RIDGE	Zone Thickness			Ft.
Interval	10370	To 10424	T.D.	10424	
Type of Test	OPEN HOLE, BOTTOM HOLE				
Time Started in Hole	0930	Hrs.	Tool Open	1440	Hrs.
First Flow	12	Min.	Shut In	60	Min.
Second Flow	60	Min.	Final Shut In	60	Min.
Pulled Loose @	1752	Hrs.	Out of Hole	2030	Hrs.
Wt. Set on Packer	45,000	#	Pulled Loose Wt.	20,000	#

Remarks

Description of Blow During Test: WEAK BLOW THROUGHOUT TEST.

GAS BLOW MEASUREMENTS

Measured with I.D. Riser or Est. ☐

Type of Instrument

Time	Sfce. Choke	Reading Inches	Cubic Feet/Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Fluid Recovered (Total) 525' Ft.

Description of Fluid Recovered
150' DRILLING FLUID.
375' SLIGHTLY SULPHUROUS MUDDY SALT WATER.

Remarks: TEST SATISFACTORY.

Co. Rep. B. YOUNG

Tester D. MATSON

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	.85	6 3/8"
P.O. SUB.	.70	4 3/4"
SUB.	1.04	6 11/16"
D.P. SUB.	.76	5 1/2"
SHUT IN TOOL	6.05	4 3/4"
HYD. TOOL	7.50	4 3/4"
RECORDER	5.90	4 7/8"
SAFETY JT.	1.75	4 3/4"
T.C. & PKR.	7.20	6 5/8"
T.C. & PKR.	5.10	6 5/8"
TOTAL	36.85	
STUB	2.05	4 3/4"
PERF.	15.00	4 3/4"
RECORDER	5.90	4 7/8"
PERF.	5.00	4 3/4"
RECORDER	5.90	4 7/8"
PERF.	20.00	4 3/4"
B.N.	.50	4 3/4"
TOTAL INTERVAL	54.35	
TOTAL LENGTH	91.20	

Elevation 1056 KB 1041 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type

Amount

MUD AND HOLE DATA

Mud Type KELZAK W.L. 6.8

Filter Cake 1/32 Visc. 48 Wt. 9.1

Time Taken 0200 HRS.

Contractor IMPERIAL OIL LIMITED

Rig No. NAT 3

Drill Pipe Size 4 1/2 FH

Drill Collar Size 2 3/4 ID

Main Hole Size 8 5/8" LENGTH 343.48'

Rat Hole Size

District EDMONTON

Company IMPERIAL OIL LIMITED

Well Name 10E STONY

Number #1-50-67°-30'N-135°-15'-W

Formation and Interval BALD RIDGE 10370-10424

Ticket No. C-8477 Date APRIL 24/66

Address 11160 JASPER AVENUE EDMONTON, ALBERTA

Test No. 1 J.T.L. Test No. 1

Field WILDCAT Province N.W.T.

Consultant

Distribution of Reports
3 - EDMONTON
1 & CHARTS - CALGARY
1 - DATA CENTER (ALL ENCLOSED TO EDMONTON

JTL-CD-5A

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		AK1 1879	AK1-1937	AK1-1877	
CAPACITY (psig)		7250	7800	7300	
INSTRUMENT DEPTH		10351	10387	10398	
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.		202°	202°	202°	
INITIAL HYDROSTATIC	A	5061#	5090#	5101#	
FIRST FLOW	B	55#	72#	80#	
B 1		147#	166#	184#	
INITIAL SHUT-IN	C	4022#	4037#	4045#	
SECOND FLOW	D	183#	209#	227#	
D 1		280#	303#	322#	
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G	3634#	3664#	3776#	
FINAL HYDROSTATIC	H	5061#	5090#	5090#	

FIELD REPORT No. C-8477

TIME DATA

TIME GIVEN	TIME COMPUTED
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
CLOCK TRAVEL	IN/MIN.

REMARKS:

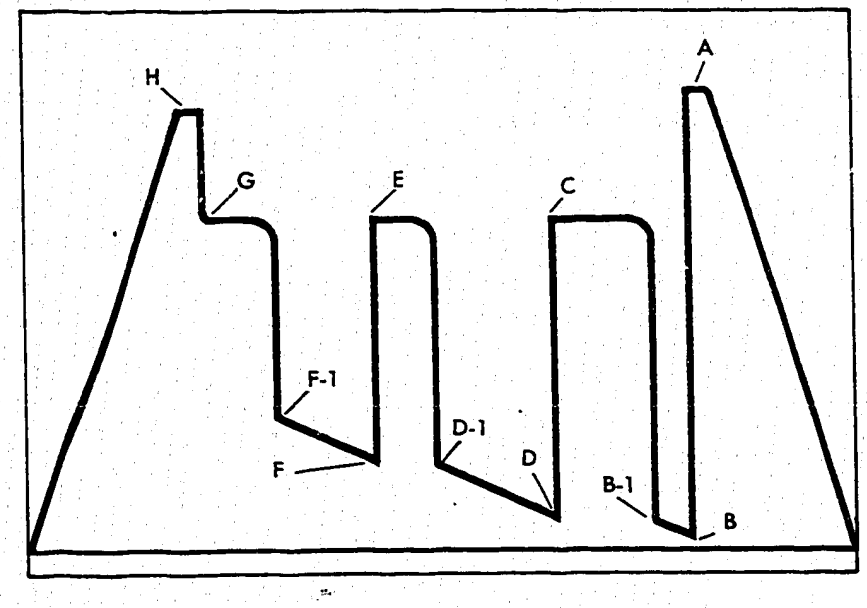
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



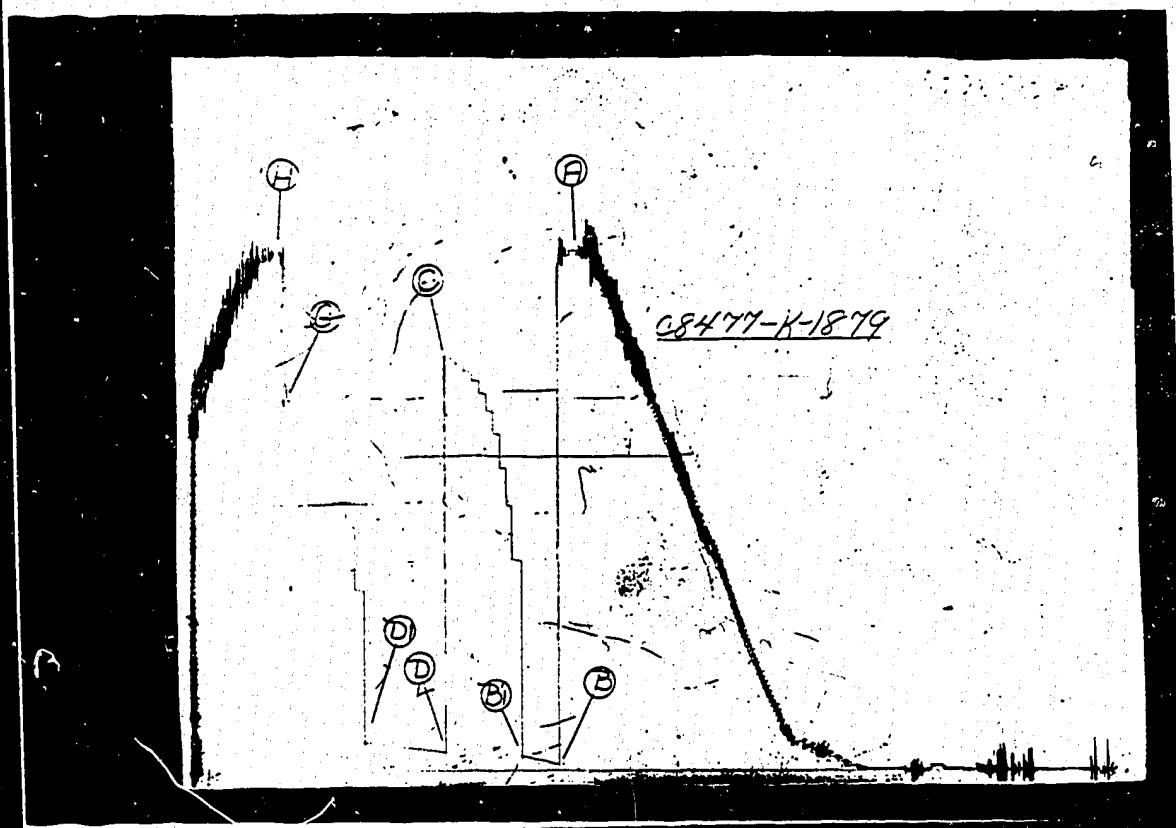
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

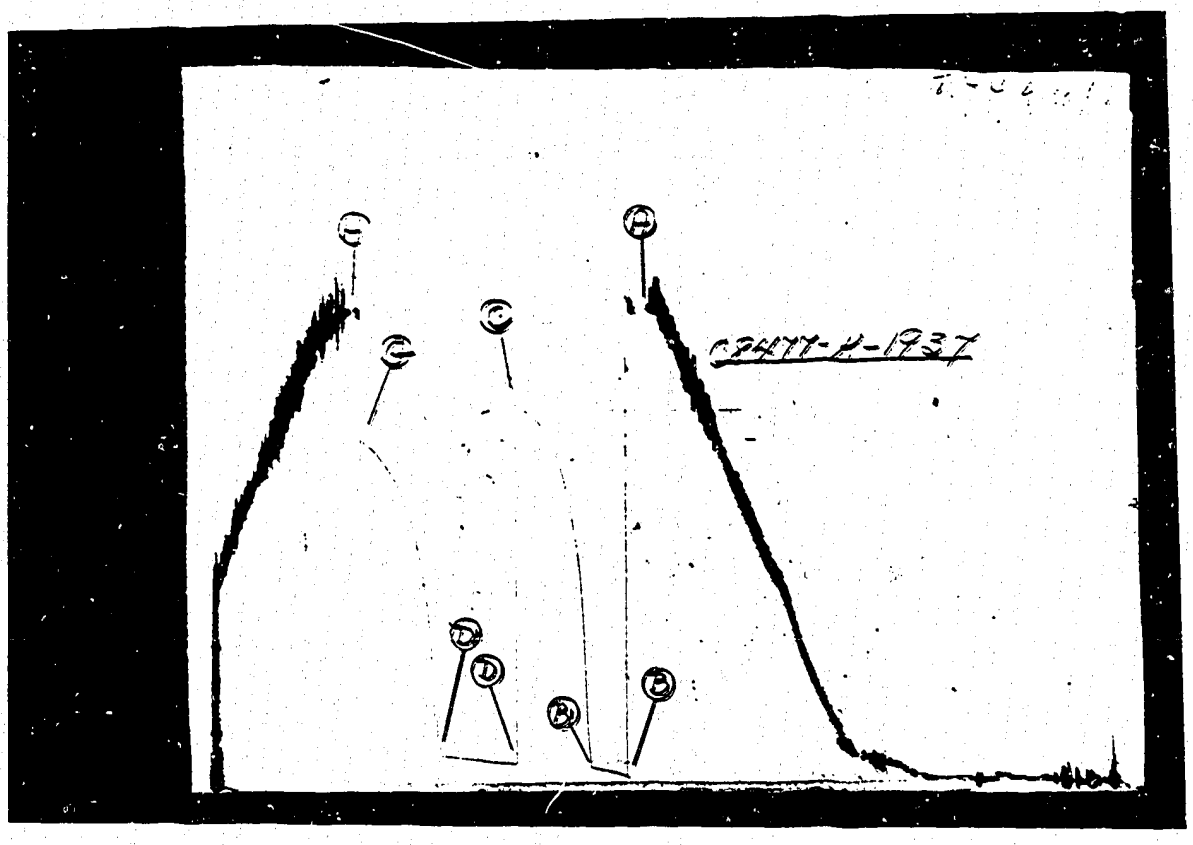
The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

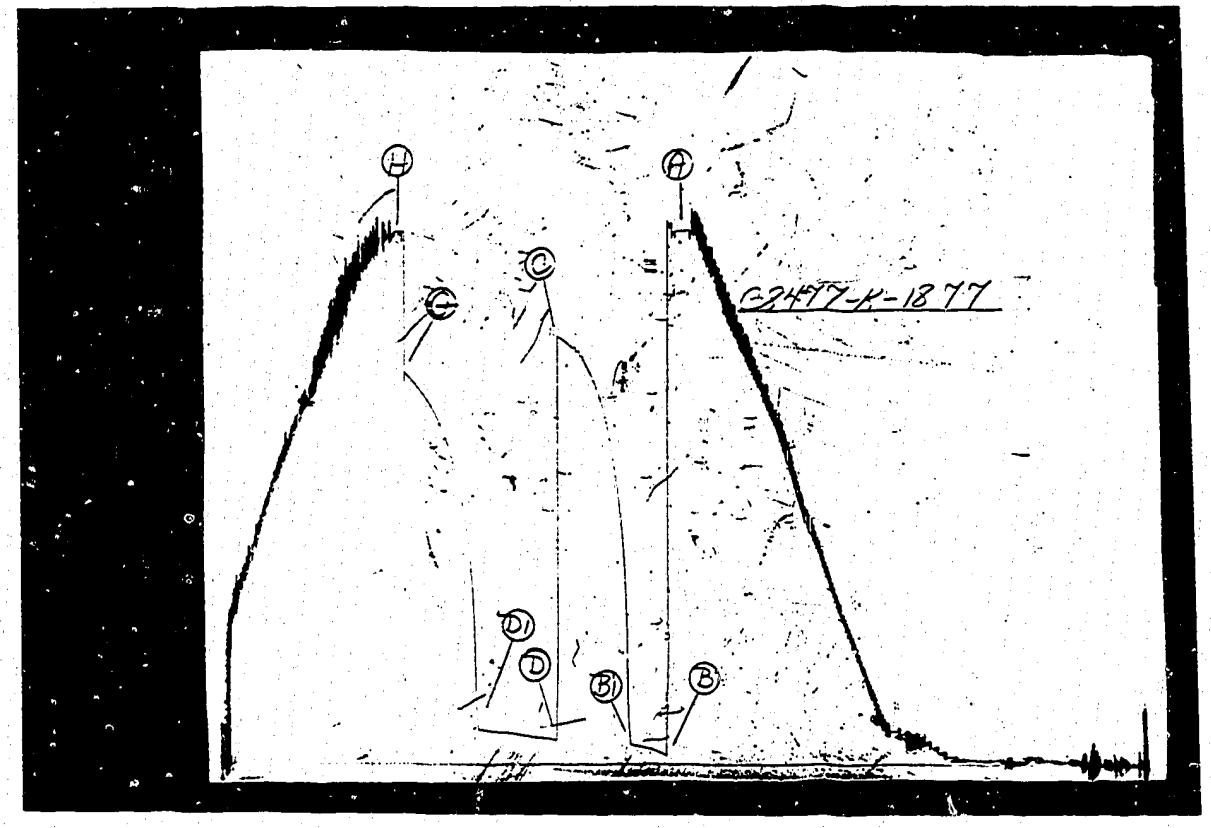
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8477	AK1 1879	7250	5




C-2477-K-1937


C-2477-K-1877

I & E-1

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

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JOHNSTON TESTERS

Pressure Log*

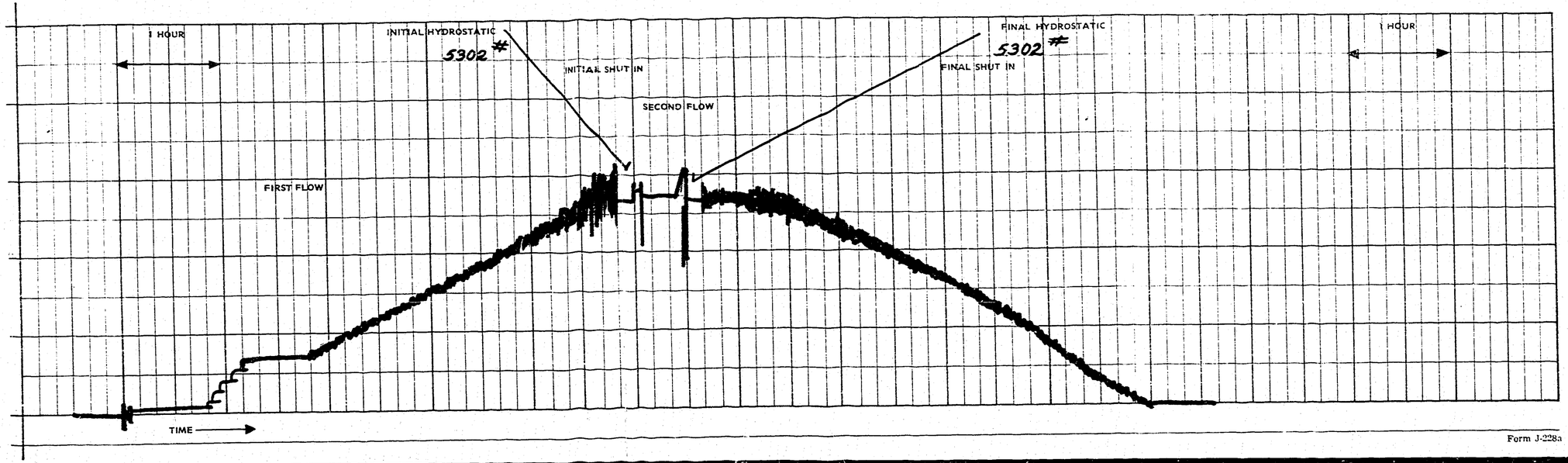
Field Report No. C8479

Instrument: Number AK-1937

Capacity 7800 p.s.i.

Depth 10684 ft.

* a continuous tracing of the original chart



Form J-228a

JTL.CD.4

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness			Ft.
Interval	10595	To	10655	T.D.	10942
Type of Test	OPEN HOLE, STRADDLE, BYPASS				
Time Started in Hole	2100 Hrs.	Tool Open	0052		Hrs.
First Flow	2 Min.	Shut In	0		Min.
Second Flow	3 Min.	Final Shut In	0		Min.
Pulled Loose @	0128 Hrs.	Out of Hole	0600		Hrs.
Wt. Set on Packer	50,000	# Pulled Loose Wt.	180,000		#
Remarks					

Description of Blow During Test: MIS-RUN, SEAT FAILURE, RESET TWICE

GAS BLOW MEASUREMENTS

Measured with ____ I.D. Riser or Est. ☐

Type of Instrument ____

Time	Sfce. Choke	Reading Inches	Cubic Feet/Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Fluid Recovered (Total) 1200' Ft.

Description of Fluid Recovered
145' MUDDY WATER
360' BLACK SULPHUROUS WATER
705' WATER CUSHION

Remarks: MIS-RUN, SEAT FAILURE

Co. Rep.	B. YOUNG AND A. BENNETT
Tester	D. MATSON
District	EDMONTON
Company	IMPERIAL OIL LIMITED
Well Name	IOE STONY
Number	#1-50-67°-30'N-135°-15'-W DST#2
Formation and Interval	10595-10655
Distribution of Reports	3 - EDMONTON 1 & CHARTS - CALGARY 1 - DATA CENTER (ALL ENCLOSED TO EDMONTON)

Elevation	1056 KB 1041 GL
Bottom Hole Choke Size	1/2"
Fluid Cushion Type	WATER
Amount	705'

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	1.25	6 5/8"
JARS	7.57	6 3/4"
SUB.	1.05	6 7/8"
D.P. SUB.	.76	5 1/2"
P.O. SUB.	.80	4 3/4"
SHUT IN TOOL	6.05	4 3/4"
HYD. TOOL	7.50	4 5/8"
RECORDER	5.90	4 7/8"
H. SUB.	.82	4 5/8"
SAFETY JT.	1.75	4 1/2"
T.C. & PKR.	7.22	6 5/8"
T.C. & PKR.	5.15	6 5/8"
TOTAL	45.82	
STUB	2.10	4 3/4"
PERF.	8.00	4 3/4"
R. SUB.	.87	4 5/8"
2 RECORDERS	11.80	4 7/8"
SUB.	2.41	5 3/8"
D.C.	30.00	4 3/4"
SUB.	.68	5 5/8"
SUB.	.82	5 3/4"
T.C. & STUB	3.60	6 5/8"
TOTAL INTERVAL	60.58	
TOTAL BELOW INTV.	287.48	
TOTAL LENGTH	393.88	

MUD AND HOLE DATA

Mud Type	KELZAK			W.L.	7.6
Filter Cake	1/32	Visc.	46	Wt.	9.3
Time Taken	APRIL 29/66 @ 1500 HRS.				
Contractor	IMPERIAL OIL LIMITED				
				Rig No.	NAT 3
Drill Pipe Size	4 1/2 FH				
Drill Collar Size	2 3/4 ID	Length	343.48'		
Main Hole Size	8 3/8"				
Rat Hole Size					

Ticket No. C-8479 Date MAY 1/66

Address 11160 JASPER AVENUE EDMONTON, ALBERTA

Test No. 2 J.T.L. Test No. 2

Field WILDCAT Province N.W.T.

Consultant

JTL-CD-5A

JOHNSTON TESTERS

PRESSURE DATA

		AK1-2088	AK1-1879	AK1-1877	AK1-1937
INSTRUMENT No.		7150	7250	7300	7800
CAPACITY (psig)		10575	10606	10612	10684
INSTRUMENT DEPTH		INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
INSTRUMENT OPENING					
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.		203°	203°	203°	203°
INITIAL HYDROSTATIC	A	5289#	CLOCK	5291#	5302#
FIRST FLOW	B		STOPPED		
INITIAL SHUT-IN	C		MIS-RUN. SEAT FAILURE		
SECOND FLOW	D				
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G				
FINAL HYDROSTATIC	H	5285#		5285#	5302#

FIELD REPORT No. C-8479

TIME DATA

	TIME GIVEN	TIME COMPUTED
A	MINS	MINS
B	MINS	MINS
C	MINS	MINS
D	MINS	MINS
E	MINS	MINS
F	MINS	MINS
G	MINS	MINS
CLOCK TRAVEL		IN/MIN.

REMARKS:

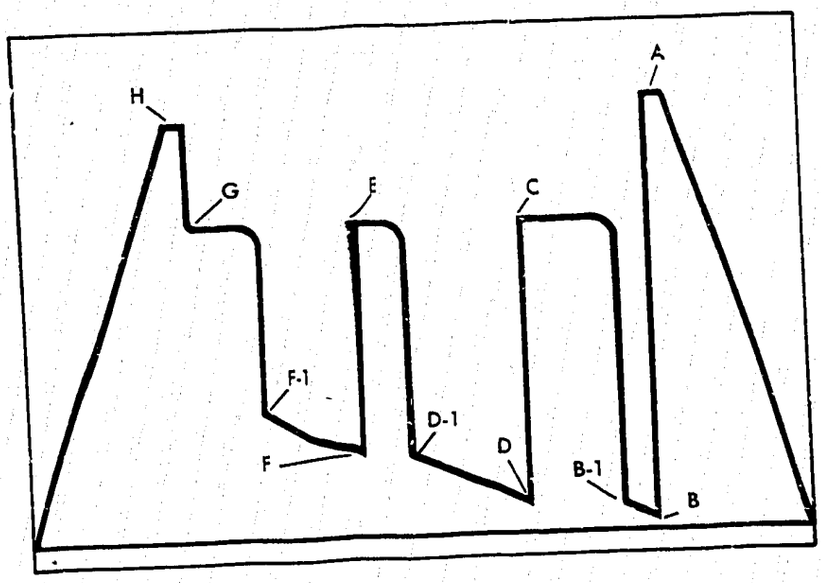
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta t}{\Delta t}$

JTL-I & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



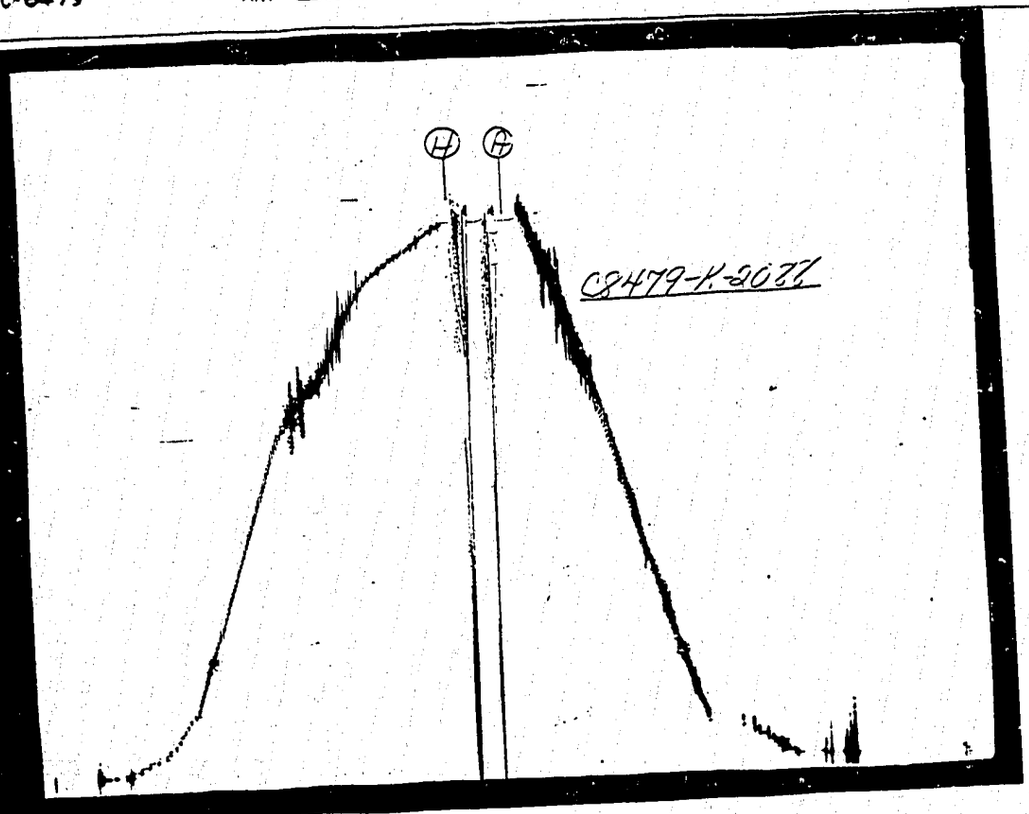
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

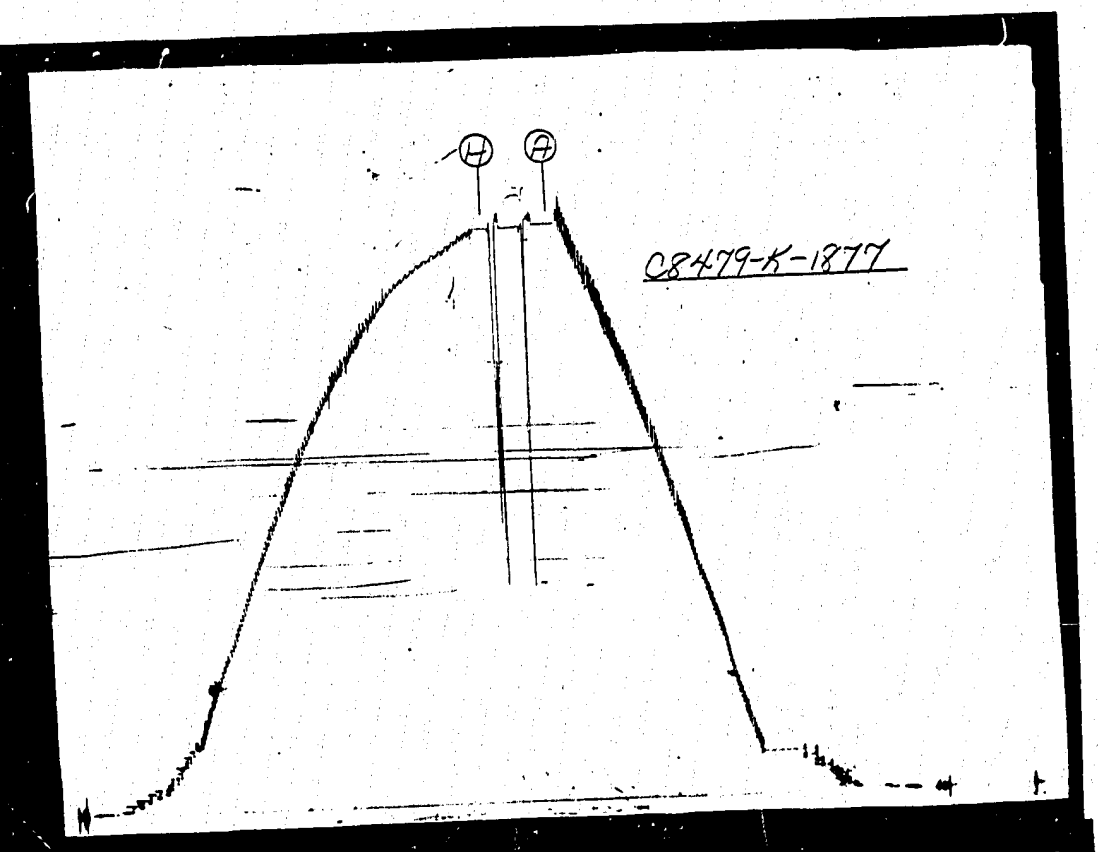
The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

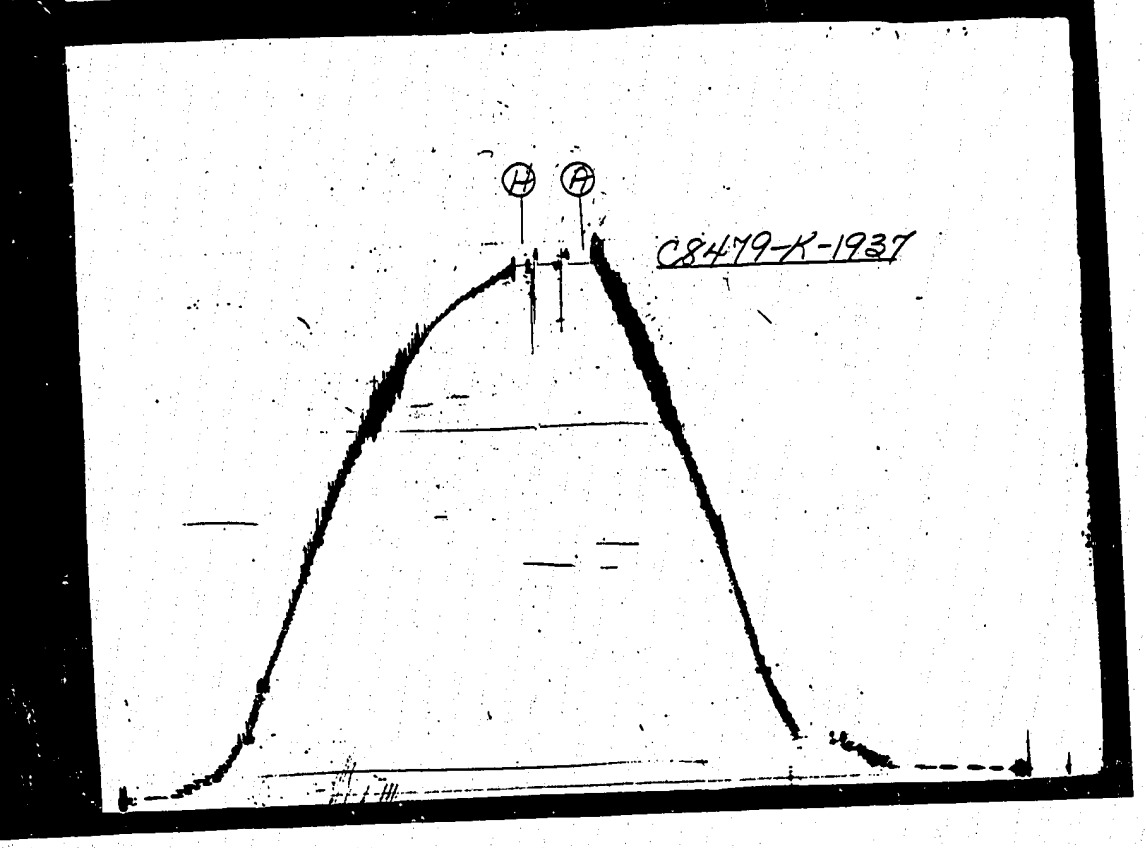
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8479	AK1-2088	7150	5




H
A
C8479-K-1877


H
A
C8479-K-1937

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

Johnston's **Special Data Analysis** provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

JOHNSTON TESTERS

Pressure Log*

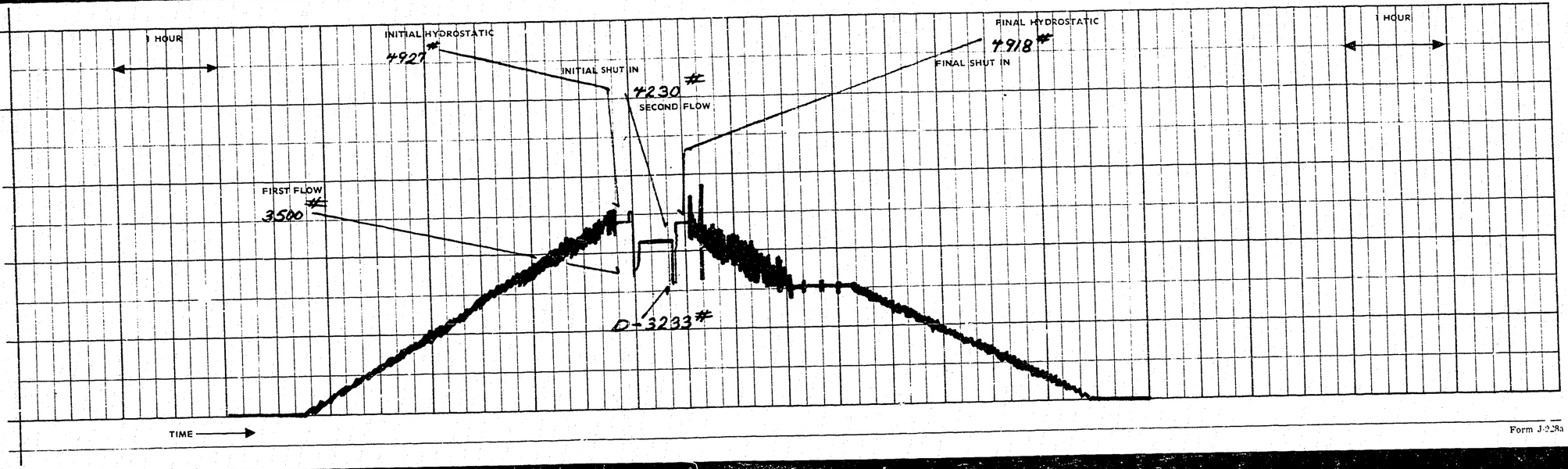
Field Report No. C8480

Instrument: Number AK/-1937

Capacity 7800 p.s.i.

Depth 9916 ft.

* a continuous tracing of the original chart



Form J-238a

JTL-CD-5A

JOHNSTON TESTERS

PRESSURE DATA

		AK1-2088	AK1-1879	AK1-1877	AK1-1937
INSTRUMENT No.		7150	7250	7300	7800
CAPACITY (psig)		9807	9834	9840	9916
INSTRUMENT DEPTH		INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
INSTRUMENT OPENING					
PRESSURE GRADIENT psi/FT.		191°	191°	191°	191°
WELL TEMP. °F.					
INITIAL HYDROSTATIC	A	4908#	CLOCK	4922#	4927#
FIRST FLOW	B	646#	STOPPED	1480#	3500#
INITIAL SHUT-IN	C	4192#		4197#	4230#
SECOND FLOW	D	577#		1319#	3233#
		MIS-RUN, SEAT FAILURE			
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G				
FINAL HYDROSTATIC	H	4896#		4891#	4918#

FIELD REPORT No. C-8480

TIME DATA

	TIME GIVEN	TIME COMPUTED
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
CLOCK TRAVEL		IN/MIN.

REMARKS:

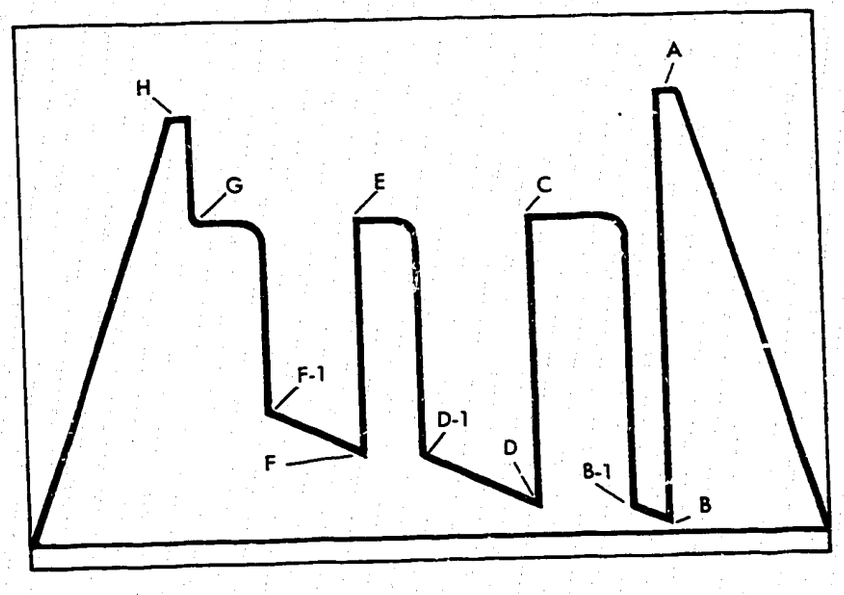
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



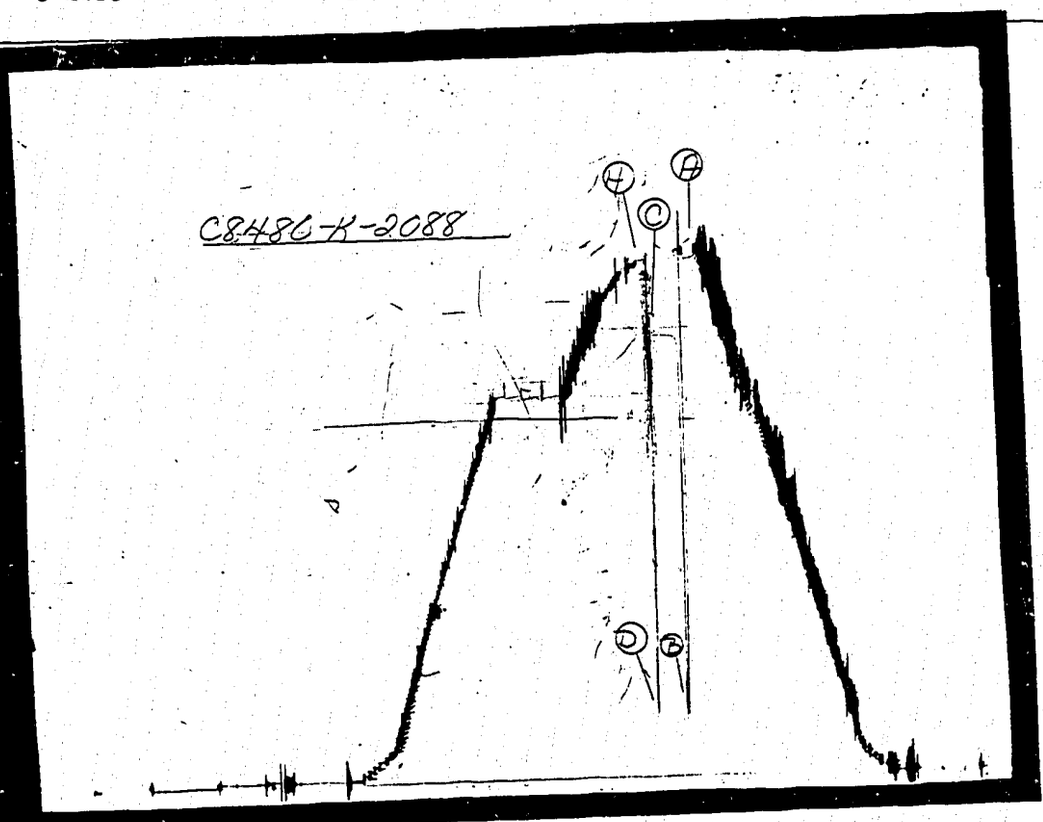
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

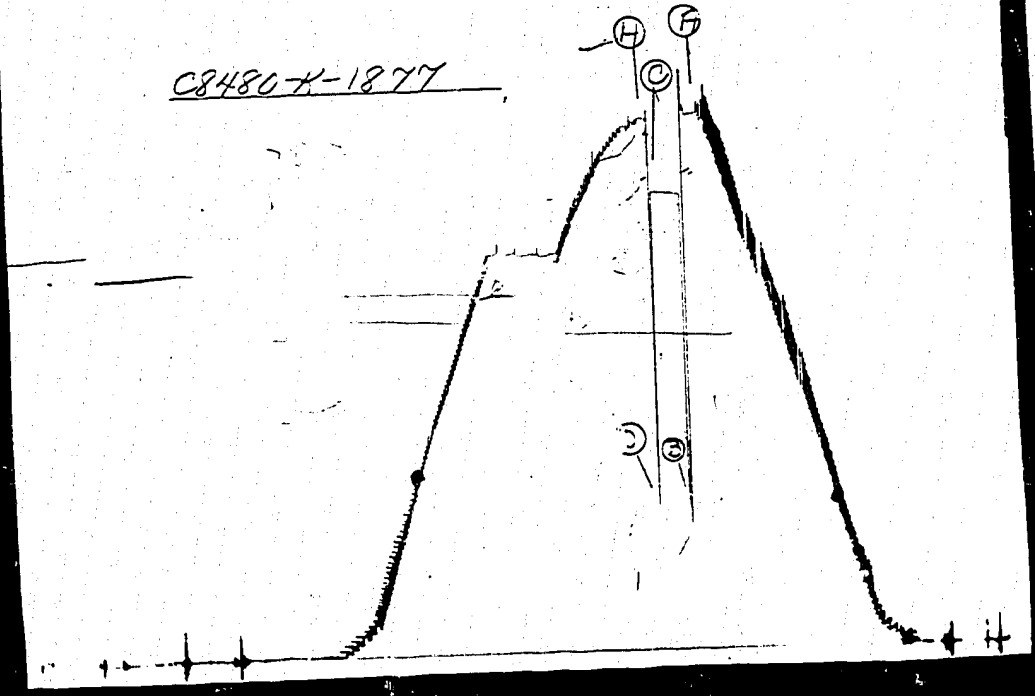
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

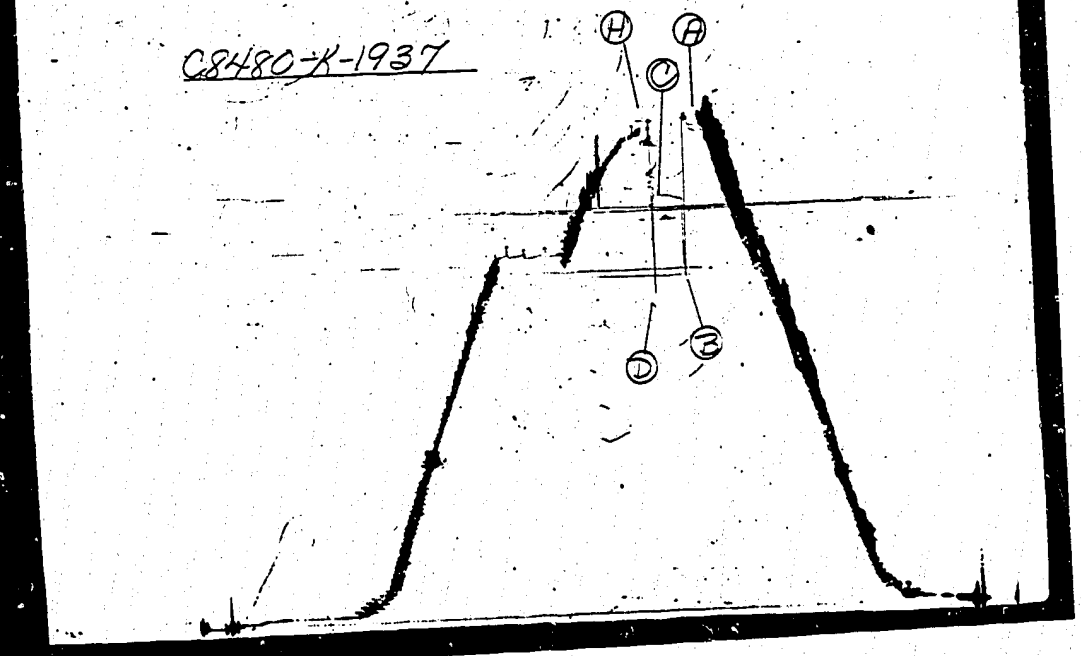
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8480	AK1-2088	7150	3



C8480-K-1877



C8480-K-1937



JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

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JOHNSTON TESTERS

Pressure Log*

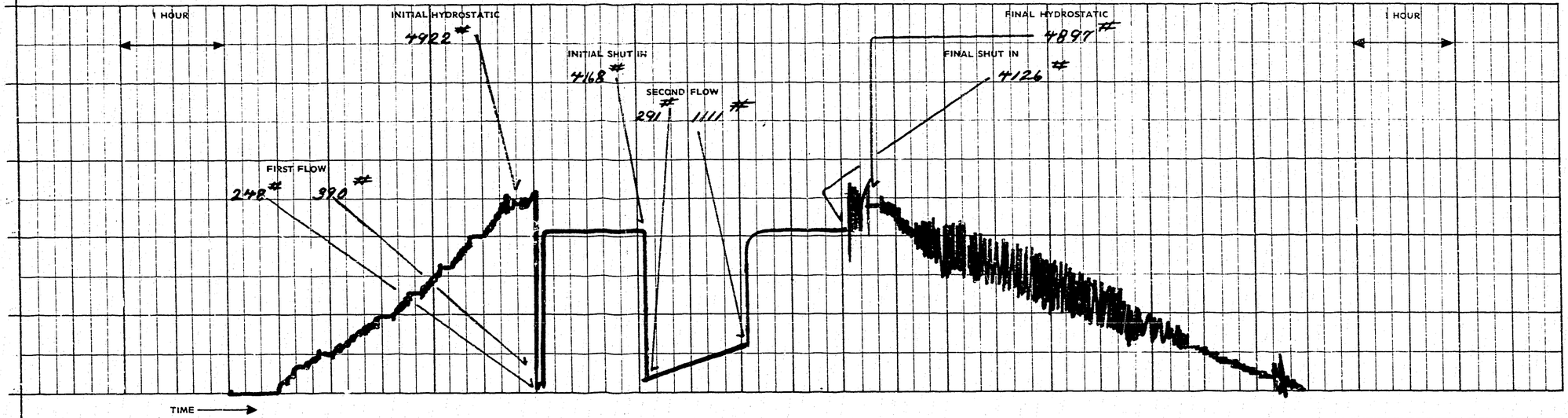
Field Report No. C8482

Instrument Number AR-1877

Capacity 7300 p.s.i.

Depth 9853 ft.

* a continuous tracing of the original chart



Form J-228a

JOHNSTON TESTERS

TEST DATA

Formation	BEAR ROCK	Zone Thickness		Ft.	
Interval	9837	To 9896	T.D. 10968		
Type of Test	OPEN HOLE, STRADDLE, SELECTIVE ZONE				
Time Started in Hole	2115 Hrs.	Tool Open	2347	Hrs.	
First Flow	5 Min.	Shut In	60	Min.	
Second Flow	60 Min.	Final Shut In	60	Min.	
Pulled Loose @	0252 Hrs.	Out of Hole	0640	Hrs.	
Wt. Set on Packer	45,000	# Pulled Loose Wt.	250,000	#	
Remarks					

Description of Blow During Test: SMALL BLOW THROUGHOUT TEST.

GAS BLOW MEASUREMENTS

Measured with I.D. Riser or Est. ☐

Type of Instrument

Time	Sfce. Choke	Reading Inches	Cubic Feet/Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Fluid Recovered (Total)	2157'	Ft.
Description of Fluid Recovered	30' DRILLING FLUID.	
	2127' SALT WATER	

Remarks: TEST SATISFACTORY.

Co. Rep.	W. YOUNG
Tester	D. MATSON
District	EDMONTON
Company	IMPERIAL OIL LIMITED
Well Name	IOE STONY
Number	#1-50-67°-30'N-135°-15'W DST# 4
Formation and Interval	9837-9896
Distribution of Reports	3 - EDMONTON 1 & CHARTS - CALGARY 1 - DATA CENTER (ALL ENCLOSED TO EDMONTON)

Ticket No.	C-3482	Date	MAY 3/66
Address.	11160 JASPER AVENUE EDMONTON, ALBERTA		
Test No.	4	J.T.L. Test No.	4
Field	WILDCAT	Province	N.W.T.
Consultant			

Elevation	1056 KB 1041 GL
Bottom Hole Choke Size	1/2"
Fluid Cushion Type	
Amount	

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	1.25	6 5/8"
JARS	7.57	6 3/4"
SUB.	1.05	6 7/8"
D.P. SUB.	.76	5 1/2"
P.O. SUB.	.80	4 3/4"
SHUT IN TOOL	6.05	4 3/4"
HYD. TOOL	7.50	4 3/4"
RECORDER	5.90	4 7/8"
H. SUB.	.82	4 5/8"
SAFETY JT.	1.75	4 1/2"
T.C. & PKR.	7.22	6 5/8"
T.C. & PKR.	6.05	6 5/8"
TOTAL	46.72	
STUB	1.20	4 3/4"
PERF.	8.00	4 3/4"
R. SUB.	.87	4 5/8"
2 RECORDERS	11.80	4 7/8"
SUBS.	2.41	5 5/8"
D.C.	30.00	4 3/4"
SUB.	.68	5 5/8"
SUB.	.82	5 3/4"
T.C. & STUB	3.60	6 5/8"
TOTAL INTERVAL	59.38	
TOTAL BELOW INTV.	16.40	
TOTAL LENGTH	122.50	

MUD AND HOLE DATA

Mud Type	KELZAK	W.L.	7.6
Filter Cake	1/32 Visc. 48	Wt.	9.3
Time Taken	0400 HRS.		
Contractor	IMPERIAL OIL LIMITED		
	Rig No. NAT 3		
Drill Pipe Size	4 1/2 FH		
Drill Collar Size	2 3/4 ID Length 347.75'		
Main Hole Size	8 5/8"		
Rat Hole Size			

JTL-CD-5A

JOHNSTON TESTERS

PRESSURE DATA

		AK1-2088	AK1-1879	AK1-1877	AK1-1937
INSTRUMENT No.		AK1-2088	AK1-1879	AK1-1877	AK1-1937
CAPACITY (psig)		7150	7250	7300	7800
INSTRUMENT DEPTH		9816	9847	9853	9901
INSTRUMENT OPENING		INSIDE	OUTSIDE	OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.		199°	199°	199°	199°
INITIAL HYDROSTATIC	A	4903#	4926#	4922#	4952#
FIRST FLOW	B	87#	237#	248#	A-1 5058#
B-1		212#	376#	390#	RAN BELOW
INITIAL SHUT-IN	C	4163#	4168#	4168#	
SECOND FLOW	D	243#	275#	291#	STRADDLE
D-1		1077#	1100#	1111#	
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G	4122#	4124#	4126#	A-2 4403#
FINAL HYDROSTATIC	H	4892#	4895#	4897#	4924#

FIELD REPORT No. C-8482

TIME DATA

	TIME GIVEN	TIME COMPUTED
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
CLOCK TRAVEL		IN/MIN.

REMARKS:

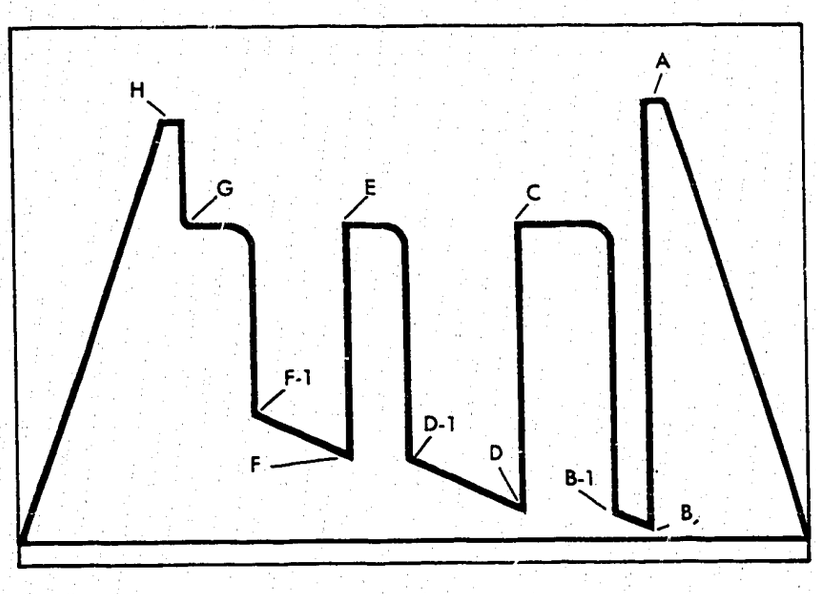
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$	POINT MINUTES	PRESSURE	$\frac{T+\Delta t}{\Delta t}$

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



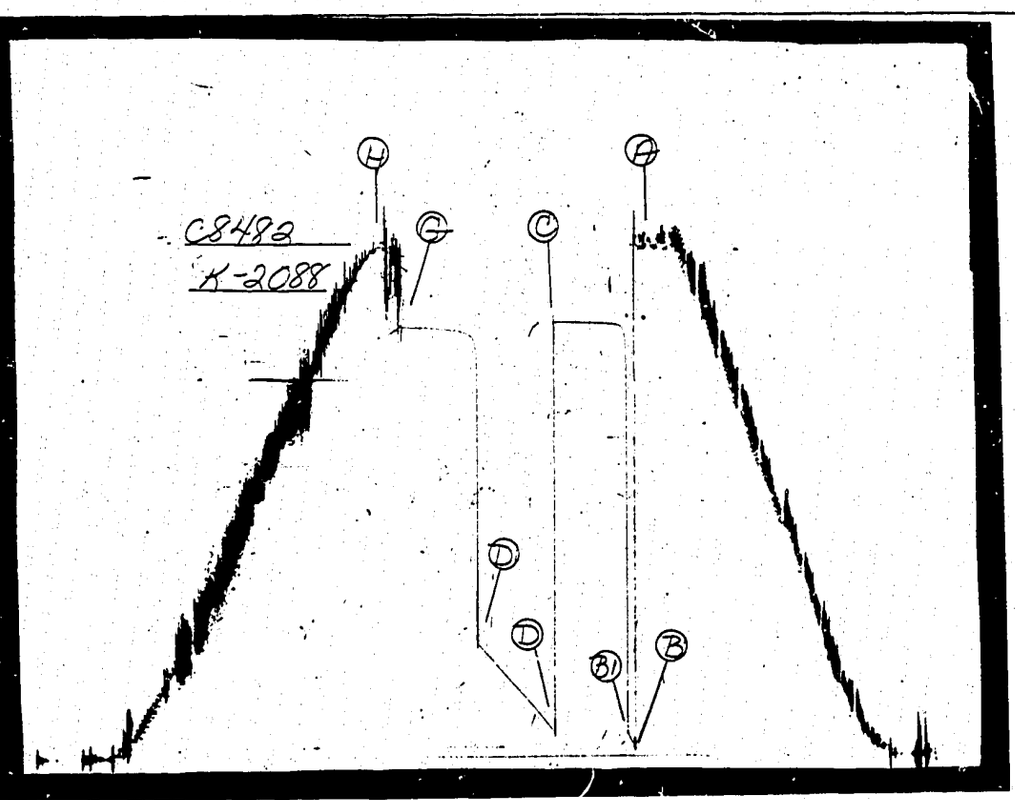
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8482	AK1-2088	7150	5



JTL-CD-4

JOHNSTON TESTERS

TEST DATA

Formation	BEAR ROCK	Zone Thickness			Ft.
Interval	9823	To 9883	T.D.	10942	
Type of Test	OPEN HOLE, STRADDLE, BYPASS				
Time Started in Hole	0945	Hrs.	Tool Open	1234	Hrs.
First Flow	3	Min.	Shut In	20	Min.
Second Flow	5	Min.	Final Shut In	0	Min.
Pulled Loose @	1302	Hrs.	Out of Hole	1655	Hrs.
Wt. Set on Packer	50,000	#	Pulled Loose Wt.	40,000	#

Remarks

Description of Blow During Test MIS-RUN, SEAT FAILURE.

GAS BLOW MEASUREMENTS

Measured with I.D. Riser or Est. ☐

Type of Instrument

Time	Sfce. Choke	Reading Inches	Cubic Feet/Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Fluid Recovered (Total) 600' Ft.

Description of Fluid Recovered 600' DRILLING FLUID.

Remarks MIS-RUN, SEAT FAILURE.

Co. Rep. W. YOUNG AND A. BENNETT

Tester D. MATSON

District	EDMONTON
Company	IMPERIAL OIL LIMITED
Well Name	10E STONY
Number	#1-50-67°- 30'N-135°-15'-W
Formation and Interval	BEAR ROCK 9823-9883 DST# 3
Distribution of Reports	3 - EDMONTON 1 & CHARTS - CALGARY 1 - DATA CENTER (ALL ENCLOSED TO EDMONTON)

Ticket No. C-8480 Date MAY 2/66

Address 11160 JASPER AVENUE EDMONTON, ALBERTA

Test No. 3 J.T.L. Test No. 3

Field WILDCAT Province N.W.T.

Consultant

Elevation 1056 KB 1041 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type

Amount

TOOL SEQUENCE

Tool	Length	O.D.
SUB.	1.25	6 5/8"
JARS	7.57	6 3/4"
SUB.	1.05	6 7/8"
D.P. SUB.	.76	5 1/2"
P.O. SUB.	.80	4 3/4"
SHUT IN TOOL	6.05	4 3/4"
HYD. TOOL	7.50	4 5/8"
RECORDER	5.90	4 7/8"
H. SUB.	.82	4 5/8"
SAFETY JT.	1.75	4 1/2"
T.C. & PKR.	8.22	6 5/8"
T.C. & PKR.	5.15	6 5/8"
TOTAL	45.82	
STUB	2.40	4 3/4"
PERF.	8.00	4 3/4"
R. SUB.	.87	4 5/8"
2 RECORDERS	11.80	4 7/8"
SUBS.	2.41	5 5/8"
D.C.	30.00	4 3/4"
SUB.	.68	5 5/8"
SUB.	.82	5 3/4"
T.C. & STUB	3.60	6 5/8"
TOTAL INTERVAL	60.58	
TOTAL BELOW INTV.	1059.49	
TOTAL LENGTH	1165.89	

MUD AND HOLE DATA

Mud Type KELZAK W.L. 7.6

Filter Cake 1/32 Visc. 46 Wt. 9.3

Time Taken APRIL 29/66 @ 1500 HRS.

Contractor IMPERIAL OIL LIMITED

Rig No. NAT 3

Drill Pipe Size 4 1/2 FH

Drill Collar Size 2 3/4 ID Length 343.48'

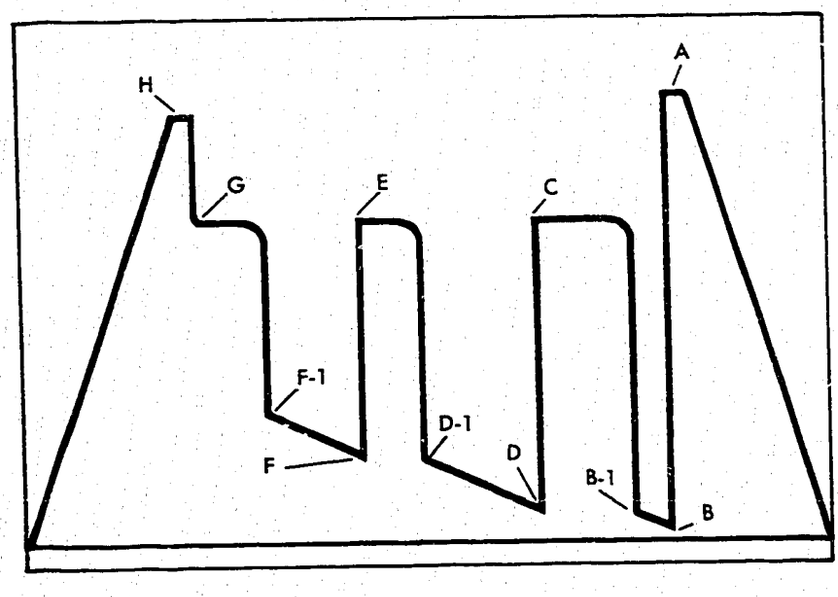
Main Hole Size 8 5/8"

Rat Hole Size

JTL-I & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



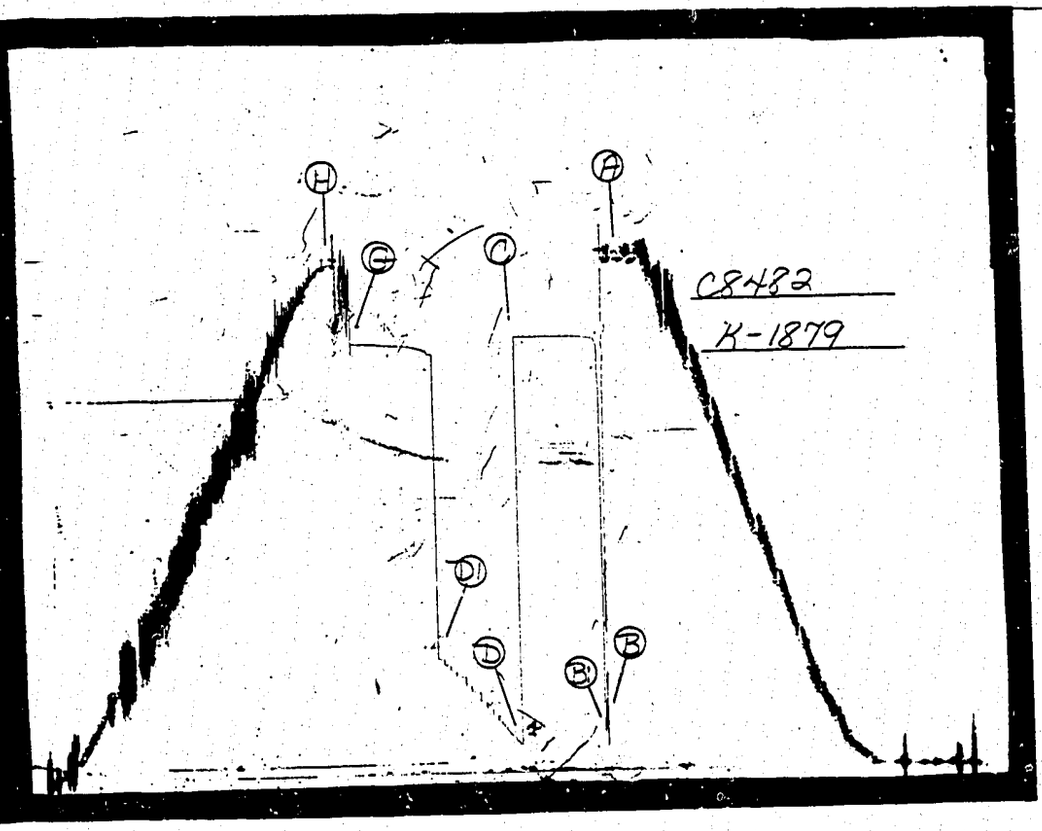
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

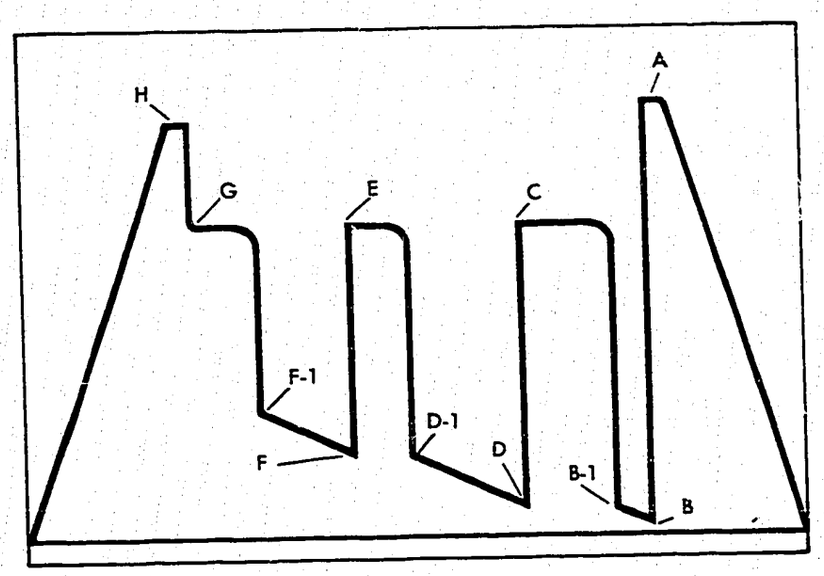
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8482	AK1-1879	7250	5



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



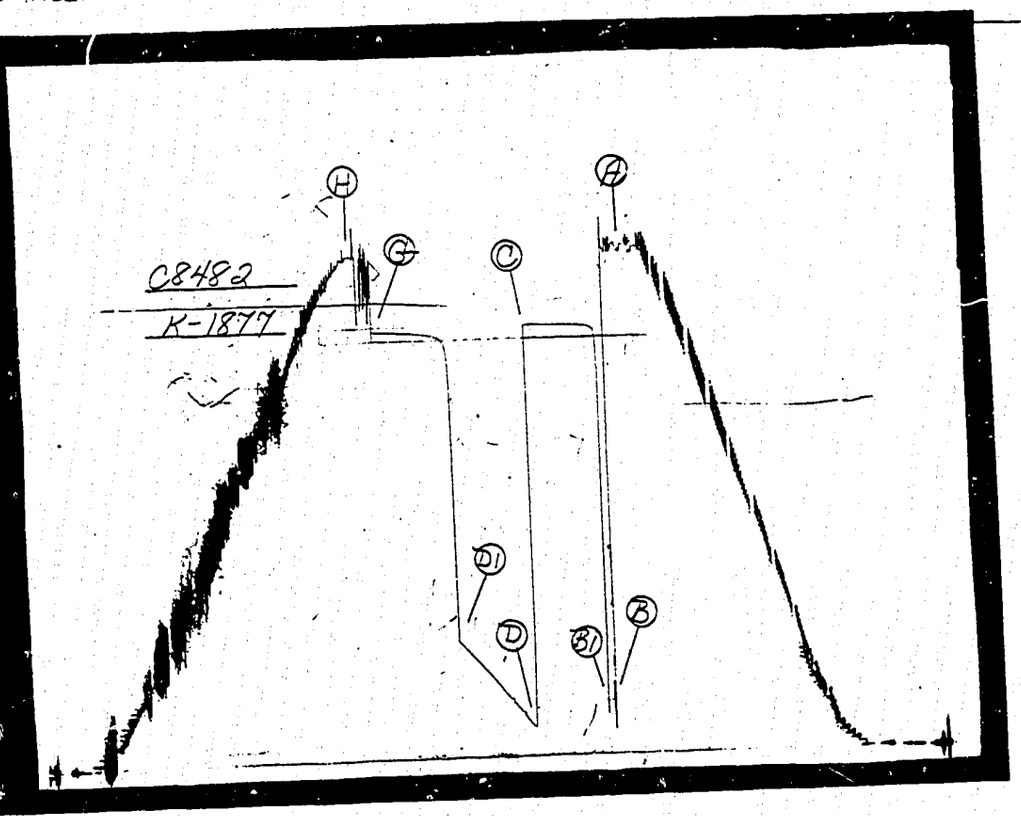
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

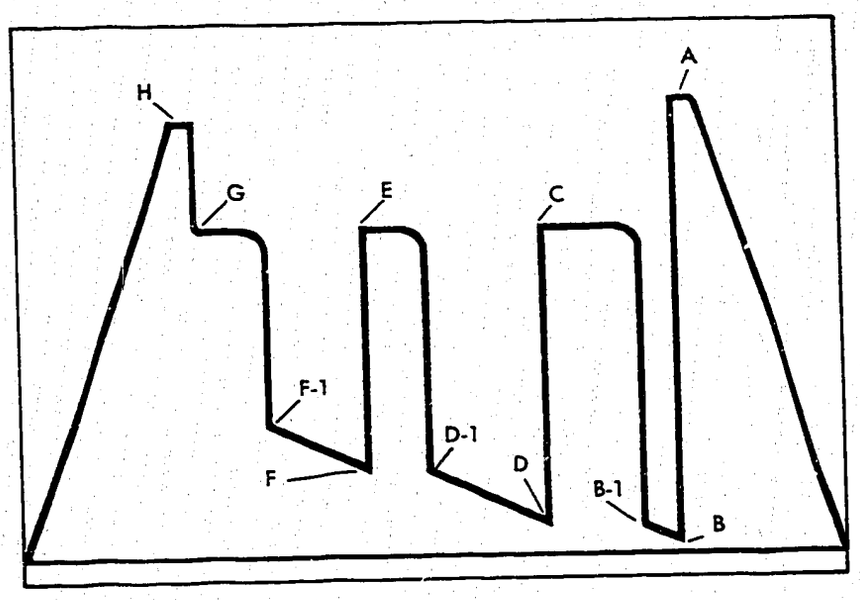
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8482	AK1-1877	7300	5



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



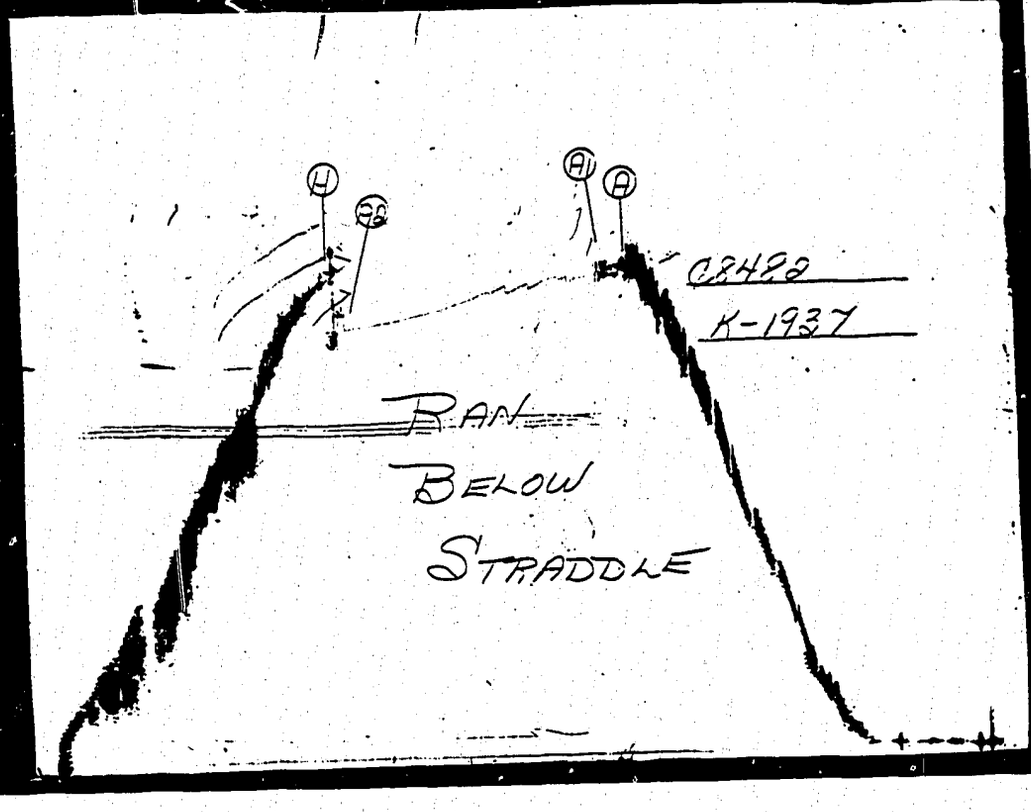
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumpng pressures recorded for formation breakdown.

JOHNSTON TESTERS LTD.

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
C-8482	AK?-1937	7800	5



IMPERIAL OIL LIMITED

2580A

DRILL STEM TEST REPORT

Date April 22, 1966

WELL NAME IOE Stony I-50 67° 30'N 135° 15'W Location N.W.T.

Formation: Bear Rock Test No. 1

K.B. Elevation 1056' Interval Tested: From 10,370 To 10,424'

BASIS FOR TEST (Lithology, Etc.) Porosity, fluorescence in samples.

SUMMARY OF RESULTS: Successful ✓ Misrun

Gas Flow

Pipe Recovery 150' mud, 375' muddy s.w.

	Duration	Pressure		Duration	Pressure
I.S.I.	60 mins.	4052	F.S.I.	60 mins.	3695
I.F.	60 "	229	F.F.	317	
V.O.	60 "				

TESTING DATA:

Well Depth 10,424' Full Hole Size 8 5/8" Drill Pipe: OD 4½" Weight
Grade Joint Type

Rat Hole Top Rat Hole Size Drill Collars: OD 6¾" Feet 343.48'
Joint Type 5" H.90

Size Top Choke Size Bottom Choke

Packer Type Bobtail Packer Size 7¼"

Cushion: Type Air Chamber: Vol.

Amount Length

	Time	Duration
Tester started in hole	11:15 a.m.	3 hrs. 7 min
Tester on bottom	2:22 p.m.	
Initial Shut in	2:52 "	
Valve Open	3:52 "	1 hr.
Valve closed	4:52 "	1 hr.
Tester Pulled Loose	5:52 "	
Tester out of Hole	9:30 "	

Weight set on packer 45,000 lbs.

Did Mud level drop in Csg: Yes No ✓

How Much

Pulled Packer Loose With 170,000 lbs.

Nature of blow Weak I.P. - then a few bubbles at 2nd flow.

Gas to Surface in Minutes How Measured

FLOW AND RECOVERY DATA:

	Time	Pressure	Riser	Mcf/day	Time	Pressure	Riser	Mcf/day
1								
2								
3								
4								
5								
6								

Liquid to Surface: Mud _____ Oil _____ Water _____

Total Fluid in Drill Pipe: (Including Cushion)	Type	Stands	Feet
1	Mud & s.w.		525'
2			
3			
4			
5			
6			
7			

NOTE: Samples of oil and water must be taken for chemical and resistivity analysis.

Salinity of Water (Chloride ppm) _____ Gravity of oil _____ °A.P.I.

Gas (Sweet _____ Sour _____) BS & W _____ $\%H_2S$ _____

Samples sent for analysis to _____

Field Pressure Data:

I.H.P.	5109	F.H.P.	5090
I.S.I.P.	4052	F.S.I.P.	3695
B.H.T. 202 °F (Measured)	I.F.P. 229	F.F.P.	317

Does chart show normal operation Yes ✓ No _____

Do you consider the test was satisfactory Yes ✓ No _____

Imperial Personnel Present at Test Al Bennett, Bill Young

REMARKS: (Include Sampling Points)

Flow head was frozen and had to be thawed out.

Rec. 150' mud
375' muddy s.w.

Test No. 1 Signature W.M. Young

Testing Co. Johnston Testers Ltd. Title Geologist

Operator Don Matson Well Name IOE Stony I-50

67° 30'N 135° 15'W

IMPERIAL OIL LIMITED 2580A

DRILL STEM TEST REPORT

Date May 1, 1966

WELL NAME IOE Stony I-50 Location 67° 30'N 135° 15'W

Formation: Bear Rock Test No. 2

K.B. Elevation 1056' Interval Tested: From 10,595' To 10,655'

BASIS FOR TEST (Lithology, Etc.) Porosity indicated on E Logs and samples.

SUMMARY OF RESULTS: Successful _____ Misrun ✓

Gas Flow _____

Pipe Recovery 1200' of fluid, including 700' of W.C.

	Duration	Pressure		Duration	Pressure
I.S.I.			F.S.I.		
I.F.			F.F.		
V.O.					

TESTING DATA:

Well Depth 10,942' Full Hole Size 8 5/8" Drill Pipe: OD 4½" Weight _____ Grade _____ Joint Type _____

Rat Hole Top _____ Rat Hole Size _____ Drill Collars: OD _____ Feet _____ Joint Type _____

Size Top Choke _____ Size Bottom Choke _____

Packer Type Bobtail Packer Size 7¼"

Cushion: Type _____ Air Chamber: Vol. _____

Amount _____ Length _____

	Time	Duration
Tester started in hole	9:00 p.m.	
Tester on bottom	00:48 a.m.	
Initial ~~Shut-in~~ ~~Valve Open~~	VO 00:52	2 mins.
Second	VO 01:20 a.m.	3 mins.
Valve closed		
Tester Pulled Loose	1:23 a.m.	
Tester out of Hole	6:00 a.m.	

Weight set on packer _____ lbs.

Did Mud level drop in Csg: Yes ✓ No _____

How Much Out of sight

Pulled Packer Loose With 30 M lbs.

Nature of blow Misrun

Gas to Surface in _____ Minutes How Measured _____

FLOW AND RECOVERY DATA:

	Time	Pressure	Riser	Mcf/day	Time	Pressure	Riser	Mcf/day
1								
2								
3								
4								
5								
6								

Liquid to Surface: Mud _____ Oil _____ Water _____

Total Fluid in Drill Pipe: (Including Cushion)	Type	Stands	Feet
1	Mud and water		1200'
2			
3			
4			
5			
6			
7			

NOTE: Samples of oil and water must be taken for chemical and resistivity analysis.

Salinity of Water (Chloride ppm) _____ Gravity of oil _____ °A.P.I.

Gas (Sweet _____ Sour _____) BS & W _____ %H_2S _____

Samples sent for analysis to _____

Field Pressure Data: I.H.P. 5319 @ 10,612' F.H.P. _____
I.S.I.P. _____ F.S.I.P. _____
B.H.T. 203 °F I.F.P. _____ F.F.P. _____
(Measured)

Does chart show normal operation Yes ✓ No _____

Do you consider the test was satisfactory Yes _____ No ✓

Imperial Personnel Present at Test T. Connolly, Al Bennett, W.M. Young

REMARKS: (Include Sampling Points)

Misrun, packers would not hold. Pulled loose and 1 re-set but with same results.

Recovered 1200' of fluid, including 700' of W.C.

Test No. 2 Signature W.M. Young

Testing Co. Johnston Testers Title Geologist

Operator Don Matson Well Name IOE Stony I-50
67° 30'N 135° 15'W

IMPERIAL OIL LIMITED

2580A

DRILL STEM TEST REPORT

Date May 2, 1966

WELL NAME IOE Stony I-50 Location 67° 30'N 135° 15'W

Formation: Bear Rock Test No. 3

K.B. Elevation 1056' Interval Tested: From 9823' To 9883'

BASIS FOR TEST (Lithology, Etc.) Porosity indicated on E Logs and samples.

SUMMARY OF RESULTS: Successful _____ Misrun ✓

Gas Flow _____

Pipe Recovery _____

	Duration	Pressure		Duration	Pressure
I.S.I.	20		F.S.I.		
I.F.			F.F.		
V.O.					

TESTING DATA:

Well Depth 10,942' Full Hole Size 8 5/8" Drill Pipe: OD 4½" Weight _____ Grade _____ Joint Type _____

Rat Hole Top _____ Rat Hole Size _____ Drill Collars: OD _____ Feet _____ Joint Type _____

Size Top Choke _____ Size Bottom Choke _____

Packer Type Bobtail Packer Size 7¼"

Cushion: Type _____ Air Chamber: Vol. _____

Amount _____ Length _____

	Time	Duration
Tester started in hole	9:45 a.m.	
Tester on bottom	12:30 a.m.	
Initial V.O.	12:34	3 min.
Initial Shut In	12:37	20 "
Valve Open		
Valve closed		
Tester Pulled Loose	1:02 p.m.	
Tester out of Hole	4:55 p.m.	

Weight set on packer _____ lbs.

Did Mud level drop in Csg: Yes ✓ No _____

How Much _____

Pulled Packer Loose With _____ lbs.

Nature of blow Misrun

Gas to Surface in _____ Minutes How Measured _____

FLOW AND RECOVERY DATA:

	Time	Pressure	Riser	Mcf/day	Time	Pressure	Riser	Mcf/day
1								
2								
3								
4								
5								
6								

Liquid to Surface: Mud _____ Oil _____ Water _____

Total Fluid in Drill Pipe: (Including Cushion)	Type	Stands	Feet
1	Drilling		600'
2	Fluid		
3			
4			
5			
6			
7			

NOTE: Samples of oil and water must be taken for chemical and resistivity analysis.

Salinity of Water (Chloride ppm) _____ Gravity of oil _____ °A.P.I.

Gas (Sweet _____ Sour _____) BS & W _____ %H_2S _____

Samples sent for analysis to _____

Field Pressure Data: I.H.P. 4903 @ 8840' F.H.P. _____
I.S.I.P. _____ F.S.I.P. _____
B.H.T. 191 °F I.F.P. _____ F.F.P. _____
(Measured)

Does chart show normal operation Yes _____ No _____

Do you consider the test was satisfactory Yes _____ No _____

Imperial Personnel Present at Test Al Bennett, T. Connolly, W.M. Young

REMARKS: (Include Sampling Points)

Misrun, packers would not hold. However, valve was shut in for 20 minutes and initial shut in pressure appears to be O.K.

Recovery - 600' of drilling fluid.

Test No. 3 Signature W.M. Young

Testing Co. M.O. Johnson Testers Title Geologist

Operator Don Matson Well Name IOE Stony I-50
67° 30'N 135° 15'W

IMPERIAL OIL LIMITED 2580A

DRILL STEM TEST REPORT

Date May 4, 1966

WELL NAME IOE Stony I-50 Location 67° 30'N 135° 15'W

Formation: Bear Rock Test No. 4

K.B. Elevation 1056' Interval Tested: From 9837' To 9896'

BASIS FOR TEST (Lithology, Etc.) Porosity indicated in samples and E Logs.

SUMMARY OF RESULTS: Successful ✓ Misrun

Gas Flow

Pipe Recovery

	Duration	Pressure		Duration	Pressure
I.S.I.	1 hour	4164	F.S.I.	1 hour	4138
I.F.	5 mins.	246	F.F.	1 hour	1074
V.O.	1 hour				

TESTING DATA:

Well Depth 10,968' Full Hole Size 8 5/8" Drill Pipe: OD 4½" Weight

Grade Joint Type

Rat Hole Top Rat Hole Size Drill Collars: OD Feet

Joint Type

Size Top Choke Size Bottom Choke

Packer Type 2 Bobtail & 2 Conventional Packer Size 7¾"

Cushion: Type — Air Chamber: Vol.

Amount Length

	Time	Duration
Tester started in hole	9:15 p.m.	
Tester on bottom	11:45 "	2 hrs., 30 min.
Initial Shut in (Initial V.O.)	11:47 "	05
Valve Open	12:52 a.m.	60 "
Valve closed	1:52 a.m.	60 "
Tester Pulled Loose	2:52 "	3 hrs., 48 min.
Tester out of Hole	6:40 "	

Weight set on packer 45M lbs.

Did Mud level drop in Csg: Yes No ✓

How Much

Pulled Packer Loose With 90M lbs.

Nature of blow Good IP, steady blow throughout.

Gas to Surface in Minutes How Measured

25808

FLOW AND RECOVERY DATA:

	Time	Pressure	Riser	Mcf/day	Time	Pressure	Riser	Mcf/day
1								
2								
3								
4								
5								
6								

Liquid to Surface: Mud _____ Oil _____ Water _____

Total Fluid in Drill Pipe: (Including Cushion)	Type	Stands	Feet
1	s.w. & mud		2157'
2			
3			
4			
5			
6			
7			

NOTE: Samples of oil and water must be taken for chemical and resistivity analysis.

Salinity of Water (Chloride ppm) 160,000 Gravity of oil _____ °A.P.I.

Gas (Sweet _____ Sour _____) BS & W _____ $\%H_2S$ _____

Samples sent for analysis to _____

Field Pressure Data:

B.H.T. 199 °F (Measured)

I.H.P.	4921	F.H.P.	4884
I.S.I.P.	4164	F.S.I.P.	4138
I.F.P.	246	F.F.P.	1074

Does chart show normal operation Yes ✓ No _____

Do you consider the test was satisfactory Yes ✓ No _____

Imperial Personnel Present at Test Al Bennett, W.M. Young

REMARKS: (Include Sampling Points)

Successful test.

2157' - Total fluid includes 2127' s.w.
20' mud

Test No. 4 Signature W.M. Young

Testing Co. M.O. Johnstone Testers Title Geologist

Operator Don Matson Well Name IOE Stony I-50

67° 30'N. 135° 15'W

b) Casing Record

Ran 28 joints 875.44' 13-3/8" J-55 Mannesmann casing. 54.5 ~~58~~ lbs 8 thread cemented with 625 sax cement fondu and landed at 897'.

Ran 211 joints 9-5/8" N80 Mannesmann and National casing (1145.73 43.5 lbs 5840-04 40 lbs) 8 thread with Baker float shoe, cemented with 525 sax of common cement plus .33 lignox @ 6933' (shot off at 3892' and pulled when well abandoned).

c) Bit Record

No.	Size	Type		Hr. on Bottom	Depth Pulled	Ft. Drilled
1	12¼	DT	Conv.	10	407	407
2	12¼	YT1A	Conv.	20	775	368
3	12¼	S6	Conv.	12½	950	175
4	12¼	S6	Conv.	16½	1282	332
5	12¼	S6	Conv.	12-3/4	1403	121
6	12¼	YS1	Conv.	20	1650	247
7	12¼	M4N	Conv.	16½	1897	247
8	12¼	YS1	Conv.	21½	2132	235
9	12¼	YT1A	Conv.	23½	2378	246
10	12¼	YT1A	Conv.	22	2574	196
Core Bit #1	8-11/16		Diamond	18	2599	25 Reamed
11	12¼	YS1	Conv.	27½	2814	215
12	12¼	YS1	Conv.	21½	2940	126
13	12¼	YS1	Conv.	12½	3024	84
14	12¼	M4N	Conv.	18½	3138	114
15	12¼	M4L	Conv.	22-3/4	3292	154
16	12¼	YS1	Conv.	25½	3458	166
17	12¼	S6	Conv.	26	3637	179
Core Bit #1	8-11/16		Diamond	13½	3654	17 Reamed
18	12¼	YTL	Conv.	13	3735	81
19	12¼	SV2	Conv.	13	3815	80
20	12¼	M4L	Conv.	17½	3928	113
21	12¼	M4L	Conv.	5-3/4	3944	16
22	12¼	W7	Conv.	18	3997	53
23	12¼	M4N	Conv.	31½	4204	209
24	12¼	YT1A	Conv.	12¼	4285	81
25	12¼	SV2	Conv.	27¼	4408	123
26	12¼	M4N	Jet	10¼	4448	40
27	12¼	M4N	Jet	15½	4521	73
28	12¼	YS1	Jet	13-3/4	4571	50
29	12¼	M4N	Conv.	10-3/4	4616	45
Core Bit #1	8-11/16		Diamond	10-3/4	4625	9 Reamed
30	12¼	T2	Conv.	28½	4773	148
31	12¼	M4N	Conv.	14	4847	74
32	12¼	EMIV	Conv.	17	4928	81
33	12¼	S6	Jet	9½	4954	26
34	12¼	YS1	Conv.	10½	4970	16
35	12¼	M4L	Conv.	10	4991	21
36	12¼	W7	Conv.	15½	5028	37
37	12¼	T2	Conv.	15½	5062	34
38	12¼	W7	Conv.	15-3/4	5099	37
39	12¼	W7	Conv.	25¼	5161	62
40	12¼	M4L	Jet	11¼	5194	33

...(Cont'd.)

c) Bit Record (Cont'd.)

No.	Size	Type		Hrs. on Bottom	Depth Pulled	Ft. Drilled
41	12¼	W7	Conv.	16-3/4	5247	53
42	12¼	YHWG	Conv.	19½	5300	53
43	12¼	W7	Conv.	29-3/4	5410	110
44	12¼	M4L	Conv.	28-3/4	5555	145
45	12¼	M4N	Conv.	25	5692	137
46	12¼	M4L	Jet	18-3/4	5757	65
Core Bit #1	8-11/16		Diamond	10½	5770	13 Reamed
47	12¼	M4N	Conv.	21-3/4	5857	87
48	12¼	M4N	Conv.	17-3/4	5919	62
49	12¼	M4N	Conv.	20	5986	67
50	12¼	M4N	Conv.	16	6043	57
51	12¼	M4N	Conv.	17½	6102	59
52	12¼	M4N	Conv.	17½	6162	60
53	12¼	M4N	Conv.	19	6226	64
54	12¼	M4N	Conv.	22¼	6318	92
55	12¼	M4N	Conv.	23	6403	85
56	12¼	OSC	Conv.	23¼	6480	77
57	12¼	EMIV	Conv.	20	6542	62
58	12¼	M4N	Conv.	20¼	6607	65
59	12¼	M4N	Conv.	23½	6685	78
60	12¼	M4N	Conv.	18	6738	53
61	12¼	M4N	Conv.	16	6785	47
Core Bit #1	8-11/16		Diamond	13¼	6797	12 Reamed
62	12¼	M4L	Conv.	11-3/4	6828	31
63	12¼	M4N	Conv.	12¼	6855	27
64	12¼	YHWG	Conv.	14½	6886	31
65	12¼	M4L	Conv.	7	6910	24
Core Bit #1	8-11/16		Diamond	5	6914	4 Reamed
66	12¼	M4L	Conv.	9-3/4	6933	19
67	8-5/8	YHWG	Jet	10½	6980	47
68	8-5/8	H7	Jet		6980	Reamed 10'
69	8-5/8	YHWG	Jet	*1	6983	*3 Reamed
Core Bit #2	8-9/16		Diamond	13½	7030	47 60'
69	8-5/8	YHWG	Jet	*4	7050	*20
70	8-5/8	H7	Jet	12	7111	61
71	8-5/8	YHWG	Jet	5-3/4	7152	41
72	8-5/8	RG7X	Jet	19¼	7252	100
73	8-5/8	W7	Jet	19½	7414	162
Core Bit #3	8-9/16		Diamond	12-3/4	7464	50
74	8-5/8	M4L	Jet	12¼	7587	123
Core Bit #3	8-9/16		Diamond	5½	7596	9
75	8-5/8	M4L	Jet	9-3/4	7691	95

...Cont'd.

c) Bit Record (Cont'd.)

No.	Size	Type		Hrs. on Bottom	Depth Pulled	Ft. Drilled
76	8-5/8	M4L	Jet	11½	7788	97
77	8-5/8	YH	Jet	12¾	7888	100
78	8-5/8	YH	Jet	14	7995	107
79	8-5/8	YH	Jet	10-3/4	8074	79
Core Bit #4	7-13/16		Diamond	2-3/4	8078	4 Reamed
80	8-5/8	YHWG	Jet	16	8178	100
81	8-5/8	YH	Jet	13-3/4	8277	99
82	8-5/8	YH	Jet	14½	8382	105
83	8-5/8	YH	Jet	14½	8485	103
84	8-5/8	YH	Jet	14	8592	107
85	8-5/8	H7	Jet		Fishing	
86	8-5/8	YH	Jet	16-3/4	8723	131
87	8-5/8	H7	Jet	11-3/4	8810	87
88	8-5/8	YH	Jet	19-3/4	8940	130
Core Bit #5	7-13/16		Diamond	6-3/4	8965	25 Reamed
89	8-5/8	WTR2	Jet	19	9084	119
90	8-5/8	YH	Jet	20-3/4	9260	176
91	8-5/8	YH	Jet	21½	9420	160
92	8-5/8	YH	Jet	20½	9565	145
93	8-5/8	YH	Jet	20½	9720	155
94	8-5/8	YH	Conv.	18¼	9828	108
95	8-5/8	YH	Jet	19-3/4	10000	172
96	8-5/8	YHWG	Jet	14¼	10122	122
Core Bit #3	8-9/16		Diamond	8½	10147	25 Reamed
97	8-5/8	W7R2	Jet	13-3/4	10236	89
98	8-5/8	YH	Jet	17	10384	148
99	8-5/8	YH	Jet	2-3/4	10424	40
100	8-5/8	YHWG	Jet	14-3/4	10575	151
101	8-5/8	W7R-J	Jet	12	10688	113
102	8-5/8	YH	Jet	8¾	10745	57
103	8-5/8	YHWG	Jet	12	10830	85
104	8-5/8	W7R2	Jet	11½	10913	83
105	8-5/8	YHWG	Jet	7	10942	29
Core Bit #3	8-9/16		Diamond			Reamed
Core Bit #5	7-13/16		Diamond	7	10968	26 F.T.D.

e) **Deviation**

Totco at 75	Degrees off ¼
200	1/3
400	1/2
590	1
680	1
710	1/2
775	1/2
950	1¼
1100	1-1/8
1267	3-1/8
1307	3
1338	3½
1368	3-1/8
1403	3-1/16
1490	2½
1520	2½
1552	2-1/8
1611	2-1/16
1650	2-3/4
1720	2-7/8
1833	3½
1893	4-1/8
1943	4-1/8
1974	3-7/8
2004	3
2034	3-1/8
2064	3-1/8
2094	3
2124	3-7/8
2130	3-3/4
2183	3-1/4
2242	3-1/8
2274	3-1/8
2304	3
2365	3
2424	3-1/8
2469	2-7/8
2574	Misrun
2589	1-3/4
2694	7/8
2804	2
2854	1-1/3
2940	1-3/4
3005	1-7/8
3093	1-7/8

...(Cont'd.)

e) **Deviation** (Cont'd.)

3220	1-1/8
3290	1-3/4
3382	1½
3455	1-1/8
3547	1½
3630	?
3730	1-1/4
3810	1-1/4
3875	1/3
3925	1-3/4
3942	1-3/4
3995	1½
4073	½
4204	½
4280	1-7/8
4340	1-1/8
4405	2
4448	1-3/4
4518	2
4571	1-7/8
4615	1-3/4
4692	1-3/4
4773	2½
4829	2
4847	2-7/8
4890	2¼
4928	2¼
4950	1-7/8
4970	2
4990	2
5026	2¼
5058	1-3/4
5095	2-7/8
5160	2
5194	2½
5245	2-2/3
5299	2-3/4
5410	2-2/3
5550	2-3/4
5692	2-3/4
5750	2¼
5850	2
5910	1½
5980	1-3/4
6038	2¼
6095	1-3/4
6160	1-1/8
6225	1-3/4

...(Cont'd.)

e) Deviation (Cont'd.)

6315	1½
6400	½
6475	3/4
6540	1
6605	1½
6680	1
6735	1½
6780	1-1/8
6825	2
6852	1-3/4
6883	1-3/4
6930	1½
6975	1
7048	1½
7105	1-3/4
7247	1½
7410	1½
7585	1-3/4
7680	2-1/8
7778	2-1/8
7885	1½
7990	2-2/3
8070	2-7/8
8173	3
8275	3-1/8
8380	3-1/2
8480	3-3/4
8586	4
8935	5
9075	4
9255	4½
9415	4½
9560	4½
9720	3½
9820	4
9995	5
10120	6½
10230	7
10380	8½
10570	8½
10683	8½
10825	7
10908	6-3/4

Section III

d) MUD REPORT

A low solids mud system was used to the bottom of the intermediate string and from there on a polymer mud system.

The following additives were used:

Gel	157,300 lbs.
Zeogel	1,500 lbs.
Caustic Soda	8,615 lbs.
Soda Ash	1,200 lbs.
Cellex	1,500 lbs.
CMC	700 lbs.
Carbonox	1,875 lbs.
Salt	80 sacks
Sawdust	66 sacks
Cromox	83 gals.
Plaster of Paris	1,335 lbs.
Peltex	2,525 lbs.
Polymer	3,375 lbs.
Dowicide B	385 lbs.
Chromic Chloride	1,055 lbs.
Aluminum Stearate	60 lbs.
Quick Vis	6 gals.
Diesel Fuel	116 gals.
Igepal	55 gals.

Section III

f) ABANDONMENT PLUGS

May 4/66 Plug #1 10620-10320 with 160 sax felt at 10,300'

May 5/66 Plug #2 9950-9780 with 100 sax felt at 9750'

May 6/66 Shot off 9-5/8" casing at 3892' and pulled

May 7/66 Plug #3 3940-3840 with 100 sax plus 2% CaCl2 felt at 3815'

May 8/66 Plug #4 950-850 with 120 sax plus 2% CaCl2 felt at 780'

10 sax in Conductor pipe

Welded on steel plate.

g) LOST CIRCULATION ZONES - None encountered

h) REPORT OF BLOWOUTS - none encountered

SECTION IV

Section IV - LOGS

March 6th, 1966	Dipmeter	893-6926
March 6th, 1966	Microlog Caliper	891-6931
March 6th, 1966	Borehole Compensated Sonic Gamma Ray Caliper	893-6930
March 6th, 1966	Induction E	893-6931
April 30th, 1966	Induction E	6933-10937
May 1st, 1966	Micro Caliper	6932-10939
May 1st, 1966	Borehole Compensated Sonic Gamma Ray Caliper	6933-10939
May 2nd, 1966	Velocity Survey	
May 1st, 1966	Dipmeter	6933-10935

Section V - ANALYSES

a) Core Analysis - 10122-10147 Bear Rock CNP-1-8182

b) Water Analysis - ~~Not run~~. L31966 (DST #1 - 3 samples
DST #2 - 4 "
DST #3 - 2 "
DST #4 - 12 "

c) Gas Analysis - Not run.

d) Oil Analysis - Not Run.

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

Company - IMPERIAL OIL ENTERPRISES LIMITED
Well - 10E STONY 1-50-67-30-135-15
Field - FT. MACPHERSON
Province - NORTHWEST TERRITORIES

Date Report - MAY 11, 1966
Formation - -
Location - LSD 1-50-67-30-135-15
D. Fluid - WATER BASE

Page - 1 of 1
File - CNP-1-8182
Analysts - BD SM
Remarks - 4 3/8" CORE

CORED INTERVAL 10,122' - 10,147'

CORE NO. 12 10,122' - 10,147' (Rec. 25.0') (6 Boxes)

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 Condition (1)	Texture (2)	Interpretation (3)	Plug Type O	Description
1	10,122.0	10,122.7	0.7	15.	14.	4.5	5.7	2.71	2.87	11	A,B,C,D,2,	11,15,	G.	
2	10,122.7	10,123.8	1.1	21.	19.	6.5	3.7	2.75	2.85	11	B,C,D,2,	11,15,	G.	
3	10,123.8	10,124.5	0.7	192.	126.	7.6	12.7	2.50	2.85	11	B,C,D,2,	11,	G.	
4	10,124.5	10,125.3	0.8	68.	65.	7.8	7.9	2.65	2.87	11	A,B,C,D,2,5,	11,	G.	
5	10,125.3	10,126.1	0.8	72.	64.	2.9	10.1	2.57	2.86	11	A,B,C,D,2,	11,15,	G.	
6	10,126.1	10,127.0	0.9	16.	11.	2.2	2.3	2.79	2.85	11	B,C,D,2,	11,15,	G.	
7	10,127.0	10,128.0	1.0	43.	39.	7.6	5.8	2.68	2.85	11	A,B,C,D,2,5,	11,15,	G.	
8	10,128.0	10,129.0	1.0	4.2	3.4	1.1	1.4	2.81	2.85	11	B,C,D,2,5,	11,15,	G.	
9	10,129.0	10,130.0	1.0	26.	19.	1.3	2.1	2.79	2.85	11	B,C,D,2,	11,15,	G.	
10	10,130.0	10,130.8	0.8	5.6	4.6	2.8	1.6	2.80	2.85	11	A,B,D,2,	11,15,	G.	
11	10,130.8	10,131.8	1.0	33.	32.	6.3	9.5	2.59	2.85	11	A,B,C,D,2,	11,15,	G.	
12	10,131.8	10,132.7	0.9	474.	64.	46.	5.9	2.68	2.85	11	A,B,D,2,	11,	G.	
13	10,132.7	10,133.8	1.1	5.1	3.2	0.86	5.5	2.69	2.84	11	A,B,C,D,2,	11,	G.	
14	10,133.8	10,134.7	0.9	7200.	452.	175.	10.7	2.55	2.85	11	A,B,C,D,2,	11,	G.	
15	10,134.7	10,136.1	1.4	71.	71.	6650.	5.8	2.71	2.87	11	A,B,D,2,	11,15,	G.	
16	10,136.1	10,136.9	0.8	43.	40.	1.9	5.4	2.72	2.87	11	A,B,C,D,2,	11,15,	G.	
17	10,136.9	10,138.0	1.1	26.	18.	1.3	2.1	2.79	2.85	11	A,B,C,D,2,	11,	G.	
18	10,138.0	10,138.8	0.8	8.7	2.7	2.4	3.6	2.75	2.85	11	A,B,C,D,2,	11,	G.	
19	10,138.8	10,140.1	1.3	41.	13.	10.	6.0	2.68	2.85	11	A,B,C,D,2,	11,	G.	
20	10,140.1	10,141.1	1.0	166.	45.	10.	4.0	2.73	2.84	11	B,C,D,2,	11,	G.	
21	10,141.1	10,142.3	1.2	12.	10.	11.	2.7	2.78	2.86	11	B,C,D,2,	11,	G.	
22	10,142.3	10,143.3	1.0	40.	36.	3.3	1.8	2.79	2.84	11	B,D,2,	11,	G.	
23	10,143.3	10,144.7	1.4	3.7	2.4	0.24	11.6	2.53	2.85	11	B,D,2,	11,	G.	
24	10,144.7	10,146.1	1.4	14.	6.7	0.55	17.8	2.34	2.85	11	B,D,2,	11,	G.	
25	10,146.1	10,147.0	0.9	0.84	0.66	0.06	16.2	2.39	2.85					

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" Diamter)
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 - Unconsolidated technique
8 - Combined plugs - full diameter, plus cubes test plugs, etc.,
9 - All measurements except vertical permeability on horizontal test plugs, vertical permeability taken 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

Form No. 49007

CONFIDENTIAL

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L 31966

Date May 18/66

Sample: IOE Stony I-50 67°30'N - 135°15'W
DST #1 Sample 1 10,370'-10424'
Rec. 525' fluid 150' mud. Temp. 202°F April 22/66

Specific Gravity 60/60 = 1.042

pH = 7.90

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	21,167	37.95	×	920.3	48.79
Calcium	Ca	306	0.55	× .04990	15.3	0.81
Magnesium	Mg	93	0.17	× .08224	7.6	0.40
Sulphate	SO_4	2,211	3.96	× .02082	46.0	2.44
Chloride	Cl	31,559	56.58	× .02820	890.0	47.18
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	439	0.79	× .01639	7.2	0.38
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		55,775	100.0		1886.4	100.0

a= 48.79
b= 1.21
c= 49.62

Class No. 3

Primary salinity	= alkali salinity	=	97.58
Secondary salinity	= permanent hardness	=	1.66
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.76
	Total =		100.0

Remarks:

Analysis by: H.T.

Form No. 49007 (5m-3-59)

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST 1 Sample 2 10,370-10,424'
REC. 525' fluid 150' mud & 375' S.W. Temp. 202, April 22/66

Specific Gravity 60/60 = 1.087

pH = 6.90

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	46,980	37.84	x	2042.6	48.20
Calcium	Ca	1,206	0.97	x .04990	60.2	1.42
Magnesium	Mg	195	0.16	x .08224	16.0	0.38
Sulphate	SO_4	1,757	1.42	x .02082	36.6	0.86
Chloride	Cl	73,580	59.26	x .02820	2075.0	48.97
Carbonate	CO_3	-	-	x .03333	-	-
Bicarbonate	HCO_3	439	0.35	x .01639	7.2	0.17
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		124,157	100.0		4237.6	100.0

a= 48.20
b= 1.80
c= 49.83

Class No. 3

Primary salinity	= alkali salinity	=	96.40
Secondary salinity	= permanent hardness	=	3.26
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.34

Total = 100.0

Remarks:

Analysis by: H.T.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #1 Sample 3 10,370-10,424' April 22/66
Rec. 525' Fluid, 150' mud 375' S.W. Temp. 202

Specific Gravity 60/60 = 1.095

pH = 6.85

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	52,509	37.84	x	2283.0	48.18
Calcium	Ca	1,347	0.97	x .04990	67.2	1.42
Magnesium	Mg	232	0.17	x .08224	19.1	0.40
Sulphate	SO_4	1,747	1.26	x .02082	36.4	0.77
Chloride	Cl	82,445	59.41	x .02820	2324.9	49.06
Carbonate	CO_3	-	-	x .03333	-	-
Bicarbonate	HCO_3	488	0.35	x .01639	8.0	0.17
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		138,768	100.0		4738.6	100.0

a= 48.18
b= 1.82
c= 49.83

Class No. 3

Primary salinity	= alkali salinity	=	96.36
Secondary salinity	= permanent hardness	=	3.30
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.34
		Total =	100.0

Remarks:

Analysis by: HT

Form No. 49007 (5m-3-59)

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST 2, Sample 1 10,595-10,655' May 2/66
Rec. 1200' Fluid (including 400' W.C.) Temp. 203

Specific Gravity 60/60 = 1.002

pH = 7.95

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	127	13.57	×	5.5	26.70
Calcium	Ca	84	12.28	× .04990	4.2	20.39
Magnesium	Mg	7	1.02	× .08224	0.6	2.91
Sulphate	SO_4	118	17.25	× .02082	2.5	12.14
Chloride	Cl	177	25.88	× .02820	5.0	24.27
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	171	25.00	× .01639	2.8	13.59
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		684	100.0		20.6	100.0

a = 26.70
b = 23.30
c = 36.41

Class No. 3

Primary salinity	= alkali salinity	=	53.40
Secondary salinity	= permanent hardness	=	19.42
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	27.18
		Total =	100.0

Remarks:

Analysis by: HT.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966 Date May 18/66

Sample: IOE Stony I-50 67°30'N 135°15'W
DST 2 Sample 2 10,595-10,655' May 2/66
Rec. 1200' Fluid (including 400' W.C.) Temp. 203°F

Specific Gravity 60/60 = 1.003
pH = 7.70
H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	78	14.61	x	3.4	20.99
Calcium	Ca	76	14.23	x .04990	3.8	23.46
Magnesium	Mg	11	2.06	x .08224	0.9	5.55
Sulphate	SO_4	81	15.17	x .02082	1.7	10.49
Chloride	Cl	142	26.59	x .02820	4.0	24.69
Carbonate	CO_3	-	-	x .03333	-	-
Bicarbonate	HCO_3	146	27.34	x .01639	2.4	14.82
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		534	100.0		16.2	100.0

a= 20.99
b= 29.01
c= 35.18

Class No. 3

Primary salinity	= alkali salinity	=	41.98
Secondary salinity	= permanent hardness	=	28.38
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	29.64
	Total =		100.0

Remarks:

Analysis by: H.T.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50 67°30'N - 135°15'W
DST #2 Sample 3 10,595-10,655' May 2/66)
Rec. 1200' Fluid (including 400' WC) Temp. 203

Specific Gravity 60/60 = 1.004

pH = 7.80

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	106		×	4.6	26.14
Calcium	Ca	70		× .04990	3.5	19.89
Magnesium	Mg	9		× .08224	0.7	3.97
Sulphate	SO_4	55		× .02082	1.1	6.25
Chloride	Cl	195		× .02820	5.5	31.25
Carbonate	CO_3	-		× .03333	-	-
Bicarbonate	HCO_3	134		× .01639	2.2	12.50
Hydroxide	OH	-		× .05879	-	-
Salinity = Totals =		569			17.6	100.0

a= 26.14
b= 23.86
c= 37.50

Class No. 3

Primary salinity	= alkali salinity	=	52.28
Secondary salinity	= permanent hardness	=	22.72
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	25.00
		Total =	100.00

Remarks:

Analysis by: H.T.

Form No. 49007 (5m-3-59)

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST 2, Sample 4 10,595 - 10,655
Rec. 1200' fluid (including 400' W.C.) Temp. 203, May 2/66

Specific Gravity 60/60 = 1.003

pH = 8.05

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	474	29.98	×	20.6	45.37
Calcium	Ca	28	1.77	× .04990	1.4	3.08
Magnesium	Mg	8	0.51	× .08224	0.7	1.55
Sulphate	SO_4	270	17.08	× .02082	5.6	12.33
Chloride	Cl	337	21.32	× .02820	9.5	20.93
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	464	29.34	× .01639	7.6	16.74
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		1,581	100.0		45.4	100.0

a= 45.37
b= 4.63
c= 33.26

Class No. 1

Primary salinity	= alkali salinity	= 66.52
Secondary salinity	= permanent hardness	= -
Tertiary salinity	= acidity	= -
Primary alkalinity	= permanent alkalinity	= 24.22
Secondary alkalinity	= temporary alkalinity	= 9.26
	Total =	100.0

Remarks:

Analysis by: H.T.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N, 135°15'W
DST #3 Sample #1 9828-9883'
REc. mud 1100' above tool.

Specific Gravity 60/60 = 1.018

pH = 8.65

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	9,943	37.64	×	432.3	49.64
Calcium	Ca	34	0.13	× .04990	1.7	0.20
Magnesium	Mg	17	0.06	× .08224	1.4	0.16
Sulphate	SO_4	2,240	8.48	× .02082	46.6	5.35
Chloride	Cl	13,156	49.81	× .02820	371.0	42.60
Carbonate	CO_3	60	0.23	× .03333	2.0	0.23
Bicarbonate	HCO_3	964	3.65	× .01639	15.8	1.82
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		26,414	100.0		870.8	100.0

a= 49.64
b= 0.36
c= 47.95

Class No. 1

Primary salinity	= alkali salinity	= 95.90
Secondary salinity	= permanent hardness	= -
Tertiary salinity	= acidity	= -
Primary alkalinity	= permanent alkalinity	= 3.38
Secondary alkalinity	= temporary alkalinity	= 0.72
	Total =	100.0

Remarks:

Analysis by: H.T.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: TOE Stony 1-50 67°30'N - 135°15'W
DST #3 Sample 2 9823-9883'
Rec. mud. Sample 540' above tool.

Specific Gravity 60/60 = 1.013

pH = 8.80

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	6,155	36.82	x	267.6	49.67
Calcium	Ca	16	0.10	x .04990	0.8	0.15
Magnesium	Mg	12	0.07	x .08224	1.0	0.18
Sulphate	SO_4	2,286	13.68	x .02082	47.6	8.83
Chloride	Cl	7,198	43.06	x .02820	203.0	37.68
Carbonate	CO_3	96	0.57	x .03333	3.2	0.59
Bicarbonate	HCO_3	952	5.70	x .01639	15.6	2.90
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		16,715	100.0		538.8	100.0

a= 49.67
b= 0.33
c= 46.51

Class No. 1

Primary salinity	= alkali salinity	=	93.02
Secondary salinity	= permanent hardness	=	-
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	6.32
Secondary alkalinity	= temporary alkalinity	=	0.66
		Total =	100.0

Remarks:

Analysis by: H.T.

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966 Date May 18/66

Sample: I.O.E. Stony #I-50, 67° 30' N - 135° 15'W.
DST #4 (9837'-9896') Sample #1 May 4/66
Formation - Bear Rock Taken 2067' above tool.

Specific Gravity 60/60 = 1.054

pH = 7.45

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	28,734	38.0	×	1249.3	48.6
Calcium	Ca	492	0.7	× .04990	24.6	1.0
Magnesium	Mg	125	0.2	× .08224	10.3	0.4
Sulphate	SO_4	1,751	2.3	× .02082	36.5	1.4
Chloride	Cl	43,864	57.9	× .02820	1237.0	48.2
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	653	0.9	× .01639	10.7	0.4
Hydroxide	OH	-	-	× .05879	-	-
Salinity =		75,619				
Totals =			100.0		2568.4	100.0

a= 48.6
b= 1.4
c= 49.6

Class No. 3

Primary salinity	= alkali salinity	=	97.2
Secondary salinity	= permanent hardness	=	2.0
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.8
	Total =		100.0

Remarks:

Analysis by: R.E.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966 Date May 18/66

Sample: IOE Stony #I-50, 67° 30'N - 135° 15'W
DST #4 (9837'-9896') Sample #2 May 4/66
Formation--Bear Rock. Taken 1885' above tool.

Specific Gravity 60/60 = 1.061

pH = 7.45

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	32,297	37.9	x	1404.2	48.5
Calcium	Ca	627	0.7	x .04990	31.3	1.1
Magnesium	Mg	141	0.2	x .08224	11.6	0.4
Sulphate	SO_4	1,744	2.0	x .02082	36.3	1.3
Chloride	Cl	49,644	58.4	x .02820	1400.0	48.3
Carbonate	CO_3	-	-	x .03333	-	-
Bicarbonate	HCO_3	659	0.8	x .01639	10.8	0.4
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		85,112	100.0		2894.2	100.0

a= 48.5
b= 1.5
c= 49.6

Class No. 3

Primary salinity	= alkali salinity	=	97.0
Secondary salinity	= permanent hardness	=	2.2
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.8
		Total =	100.0

Remarks:

Analysis by: R.E.Hoxter

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966 Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #4 (9837'-9896') Sample #4
Taken 1525' above tool. May 4/66 Form. Bear Rock.

Specific Gravity 60/60 = 1.106

pH = 6.4

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	57,038	37.8	×	2479.9	48.0
Calcium	Ca	1,648	1.1	× .04990	82.2	1.6
Magnesium	Mg	224	0.1	× .08224	18.4	0.4
Sulphate	SO_4	1,532	1.0	× .02082	31.9	0.6
Chloride	Cl	90,068	59.6	× .02820	2539.9	49.2
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	531	0.4	× .01639	8.7	0.2
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		151,041	100.0		5161.0	100.0

a= 48.0
b= 2.0
c= 49.8

Class No. 3

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.6
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.4
		Total =	100.0

Remarks:

Analysis by: R.F.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67° 30'N - 135° 15'W
DST #4 (9837'9896') Sample #3 May 4/66
Formation --Bear Rock. Taken 1705' above tool.

Specific Gravity 60/60 = 1.100

pH = 6.6

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	54,834	37.8	×	2384.1	48.0
Calcium	Ca	1,556	1.1	× .04990	77.6	1.6
Magnesium	Mg	222	0.2	× .08224	18.3	0.4
Sulphate	SO_4	1,552	1.1	× .02082	32.3	0.7
Chloride	Cl	86,487	59.4	× .02820	2438.9	49.1
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	537	0.4	× .01639	8.8	0.2
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		145,188	100.0		4960.0	100.0

a= 48.0
b= 2.0
c= 49.8

Class No. .....

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.6
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.4
		Total =	100.0

Remarks: .....

Analysis by: R.E.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony 1-50, 67°30'N - 135°15'W
DST #4 (9837'9896') Sample #5
Taken 1342' above tool. May 4/66 Form. Bear Rock.

Specific Gravity 60/60 = 1.110

pH = 6.4

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	59,439	37.7	×	2584.3	48.0
Calcium	Ca	1,785	1.1	× .04990	89.1	1.7
Magnesium	Mg	231	0.1	× .08224	19.0	0.3
Sulphate	SO_4	1,507	1.0	× .02082	31.4	0.6
Chloride	Cl	94,075	59.8	× .02820	2652.9	49.2
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	494	0.3	× .01639	8.1	0.2
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		157,531	100.0		5384.8	100.0

a= 48.0
b= 2.0
c= 49.8

Class No. 3

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.6
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.4

Total = 100.0

Remarks:

Analysis by: R.E.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOL Stony I-50, 67°30'N - 135°15'W
DST #4 (9832'9896') Sample #6 taken
1162' above tool. May 4/66 Form. Bear Rock.

Specific Gravity 60/60 = 1.112

pH = 6.3

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	60,545	37.7	×	2632.4	48.0
Calcium	Ca	1,807	1.1	× .04990	90.2	1.6
Magnesium	Mg	249	0.2	× .08224	20.5	0.4
Sulphate	SO_4	1,496	0.9	× .02082	31.1	0.6
Chloride	Cl	95,884	59.8	× .02820	2703.9	49.3
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	494	0.3	× .01639	8.1	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		160,475	100.0		5486.2	100.0

a= 48.0
b= 2.0
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.8
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.2
		Total =	100.0

Remarks:

Analysis by: R.E. Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #7
Taken 982' above tool. May 4/66. Form. Bear Rock

Specific Gravity 60/60 = 1.114

pH = 6.2

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	62,371	37.7	×	2711.8	48.0
Calcium	Ca	1,890	1.1	× .04990	94.3	1.7
Magnesium	Mg	242	0.1	× .08224	19.9	0.3
Sulphate	SO_4	1,498	0.9	× .02082	31.2	0.6
Chloride	Cl	98,862	59.9	× .02820	2787.9	49.3
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	421	0.3	× .01639	6.9	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		165,284	100.0		5652.0	100.0

a= 48.0
b= 2.0
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.8
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.2
		Total =	100.0

Remarks:

Analysis by: R. Heater

Form No. 49007 (5m-3-59)

FORMATION WATER ANALYSIS

S. O. No.....

Date May 18/66

Report No. L-31966

Sample: I.O.E. Stony I-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #8
Taken 700' above tool. May 4/66 Form. Bear Rock.

Specific Gravity 60/60 = 1.114

pH = 6.2

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	62,829	37.7.	×	2731.7	48.0
Calcium	Ca	1,942	1.2	× .04990	96.9	1.7
Magnesium	Mg	241	0.1	× .08224	19.8	0.3
Sulphate	SO_4	1,500	0.9	× .02082	31.2	0.5
Chloride	Cl	99,643	59.8	× .02820	2809.9	49.4
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	445	0.3	× .01639	7.3	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		166,600	100.0		5696.8	100.0

a= 48.0
b= 2.0
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	= 96.0
Secondary salinity	= permanent hardness	= 3.8
Tertiary salinity	= acidity	= -
Primary alkalinity	= permanent alkalinity	= -
Secondary alkalinity	= temporary alkalinity	= 0.2
	Total =	100.0

Remarks:

Analysis by: R.E.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony 1-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #9
Taken 519' above tool. May 4/66. Form. Bear Rock.

Specific Gravity 60/60 = 1.117

pH = 6.12

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	64,310	37.7	x	2796.1	48.0
Calcium	Ca	1,982	1.2	x .04990	98.9	1.7
Magnesium	Mg	234	0.1	x .08224	19.2	0.3
Sulphate	SO_4	1,488	0.9	x .02082	31.0	0.5
Chloride	Cl	102,018	59.9	x .02820	2876.9	49.4
Carbonate	CO_3	-	-	x .03333	-	-
Bicarbonate	HCO_3	384	0.2	x .01639	6.3	0.1
Hydroxide	OH	-	-	x .05879	-	-
Salinity = Totals =		170,416	100.0		5828.4	100.0

a= 48.0
b= 2.0
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	= 96.0
Secondary salinity	= permanent hardness	= 3.8
Tertiary salinity	= acidity	= -
Primary alkalinity	= permanent alkalinity	= -
Secondary alkalinity	= temporary alkalinity	= 0.2
	Total =	100.0

Remarks:

Analysis by: R. Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #10
taken 340' above tool May 4/66 Form Bear Rock

Specific Gravity 60/60 = 1.118

pH = 6.4

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	63,747	37.7	×	2771.6	47.9
Calcium	Ca	1,914	1.1	× .04990	95.5	1.7
Magnesium	Mg	264	0.2	× .08224	21.7	0.4
Sulphate	SO_4	1,520	0.9	× .02082	31.6	0.5
Chloride	Cl	101,061	59.8	× .02820	2842.9	49.4
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	445	0.3	× .01639	7.3	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		168,951	100.0		5777.6	100.0

a= 47.9
b= 2.1
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	=	95.8
Secondary salinity	= permanent hardness	=	4.0
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.2
	Total =		100.0

Remarks:

Analysis by: R.E.Heater

Form No. 49007

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #11
taken 170' above tool. May 4/66. Form Bear Rock

Specific Gravity 60/60 = 1.120

pH = 6.2

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	65,182	37.7	×	2834.0	48.0
Calcium	Ca	2,002	1.2	× .04990	99.9	1.7
Magnesium	Mg	244	0.1	× .08224	20.1	0.3
Sulphate	SO_4	1,559	0.9	× .02082	32.5	0.6
Chloride	Cl	103,366	59.9	× .02820	2914.9	49.3
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	403	0.2	× .01639	6.6	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		172,756	100.0		5908.0	100.0

a= 48.0
b= 2.0
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	=	96.0
Secondary salinity	= permanent hardness	=	3.8
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.2
	Total =		100.0

Remarks:

Analysis by: R. Heater

Form No. 49007 (5m-3-59)

FORMATION WATER ANALYSIS

S. O. No.....

Report No. L-31966

Date May 18/66

Sample: IOE Stony I-50, 67°30'N - 135°15'W
DST #4 (9837-9896') Sample #12
Taken at top of tool. May 4/66. Formation - Bear Rock.

Specific Gravity 60/60 = 1.121

pH = 6.5

H_2S = nil

Chemical Analysis

Ion		Pts/million	Per Cent		Reacting Value	Per Cent
Sodium	Na	65,943	37.7	×	2867.1	47.9
Calcium	Ca	1,994	1.1	× .04990	99.5	1.7
Magnesium	Mg	260	0.1	× .08224	21.4	0.4
Sulphate	SO_4	1,493	0.9	× .02082	31.1	0.5
Chloride	Cl	104,572	59.9	× .02820	2948.9	49.4
Carbonate	CO_3	-	-	× .03333	-	-
Bicarbonate	HCO_3	488	0.3	× .01639	8.0	0.1
Hydroxide	OH	-	-	× .05879	-	-
Salinity = Totals =		174,750	100.0		5976.0	100.0

a= 47.9
b= 2.1
c= 49.9

Class No. 3

Primary salinity	= alkali salinity	=	95.8
Secondary salinity	= permanent hardness	=	4.0
Tertiary salinity	= acidity	=	-
Primary alkalinity	= permanent alkalinity	=	-
Secondary alkalinity	= temporary alkalinity	=	0.2
	Total =		100.0

Remarks:

Analysis by: R.Heater

SECTION VI

Section VI - COMPLETION SUMMARY

a) Tubing Record - Not Run

b) Perforation Record - No Perforated

c) Cementation Record - Abandonment Plugs

May 4/66 Plug #1 10620-10320 with 160 sax felt at 10,300'
May 5/66 Plug #2 9950-9780 with 100 sax felt at 9750'
May 7/66 Plug #3 3940-3840 with 100 sax plus 2% CaCl2 felt at 3815'
May 8/66 Plug #4 950-850 with 120 sax plus 2% CaCl2 felt at 780'

d) Acidization and Fracturing Record - not applicable

e) Back Pressure and Production Tests - not applicable

Report No. OS-3 BSN 1971

Report on thirty-seven lots of fossils from five wells in northern Yukon Territory and adjacent Mackenzie (NTS 95I, 106M, 116H, I, J).

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Western Paleontology Section, Calgary, for possible revision.

IOE Stony I-50
67°29'44"N., 135°22'46"W

Depth 7,417 ft., core GSC loc. C-1452	large ostracodes to Copeland for study
Depth 7,420 ft., core GSC loc. C-1453	?Favosites sp. age: Late Ordovician to Middle Devonian
Depth 7,422 ft., core GSC loc. C-1454	fossil fragments not diagnostic
Depth 7,431 ft., core GSC loc. C-1455	fossil fragments not diagnostic
Depth 7,436 ft., core GSC loc. C-1456	fossil fragments not diagnostic
Depth 7,585-7,595 ft., core GSC loc. C-1457	bone fragments not diagnostic
Depth 8,941 ft., core GSC loc. C-1458	undetermined gastropod not diagnostic
Depth 8,944 ft., core GSC loc. C-1459	indeterminate solitary coral ?Harpidium sp. age: Silurian, possibly Late Silurian
Depth 8,945 ft., core GSC loc. C-1460	echinoderm debris indeterminate coral ?Harpidium sp. age: Silurian, possibly Late Silurian
Depth 8,946 ft., core GSC loc. C-1461	?Harpidium sp. age: Silurian, possibly Late Silurian
Depth 8,947-8,948 ft., core GSC loc. C-1462	pentamerid brachiopod age: Late Ordovician to Devonian

Depth 8,948-8,952 ft., core GSC loc. C-1463	Catenipora sp. Favosites 2 spp. age: Late Ordovician to Late Silurian
Depth 8,953 ft., core GSC loc. C-1464	indeterminate ostracode not diagnostic
Depth 8,954 ft., core GSC loc. C-1465	indeterminate ostracode not diagnostic
Depth 8,962 ft., core GSC loc. C-1466	?Harpidium sp. age: Silurian, possibly Late Silurian

Comments: C-1459-C-1462, C-1466 have been sent to A. J. Boucot for further study; C-1452, C-1464-C-1465 have been sent to M. J. Copeland for further study.

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

_____ LSD _____ SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor Imp Oil ENTERPRISES Type Rig NAT 100 NAT 73 Month MAY Day 16 1966

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
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	INDICATOR WEIGHT OF TOTAL DRILL COLLARS

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	INDICATOR WEIGHT OF TOTAL DRILL COLLARS

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	INDICATOR WEIGHT OF TOTAL 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 _____

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 _____

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 No. 1 No. 2

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

Kind _____ at _____ Ft. _____ Deg. off

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

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

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

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

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

	From	To	Hrs.
CREWS MOVEING OUT	8	4	8
ALL CREWS ON DAYLIGHTS			

	From	To	Hrs.

DEPT. OF LANDS & MINERAL RESOURCES
MAY 30 1966
CONSERVATION DIVISION

Driller _____ Driller _____ 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. _____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____ YES _____ NO _____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. .....

..... LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. OIL ENTERPRISES Type Rig NHT #3 NHT 100 Month MAY Day 15 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING	DRILL / COLLAR / DATA — Number / OD / ID / Length — INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL / COLLAR / DATA — Number / OD / ID / Length — INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	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	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	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	Bit Serial No. ... Table R.P.M. ... Jet or Conventional - ... Nozzle Size	Bit Serial No. ... Table R.P.M. ... Jet or Conventional - ... Nozzle Size
SURVEYS	Kind ... at ... Ft. ... Deg. off	Kind ... at ... Ft. ... Deg. off	Kind ... at ... Ft. ... Deg. off
RUSH PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating — Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS: On Line / Circulating — Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	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	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
		RACK RIG CLEAN UP CAMP ALL CREWS ON DAYLIGHTS — 4 / 8 / 8	
	Driller Coggill	Driller McKenzie	Driller Hopley

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES ALBERTA MAY 30 1966

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. .....

..... LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT #3 NAT 100 Month MAY Day 14 1966

DEPTH

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

From	To	Hole Made	Hole Size	Formation

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

From	To	Hole Made	Hole Size	Formation

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

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	INDICATOR WEIGHT OF TOTAL 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.
CLEAN UP RIG & CHANGE ALL CREWS ON DAYLIGHTS	4	8	8

Driller ..... Coghill

Driller ..... McKenzie

Driller ..... Hockey

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-LT-30-135-14

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

_____ LSD _____ SEC _____ TWN _____ RGE _____ W _____ Contractor Imp. Oil ENTERPRISES Type Rig NAT 100 NAT #3 Month MAY Day 13 19 66

DEPTH

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

From	To	Hole Made	Hole Size	Formation

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

From	To	Hole Made	Hole Size	Formation

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

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	INDICATOR WEIGHT OF TOTAL 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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RACKING RIG			
CLEANING UP			
ALL CREWS ON DAYLIGHTS	8	4	8

Driller Cahill

Driller McKenzie

Driller Hockey

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. _____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____ YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher A. D. Gunn Approved by _____

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. .....

LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT #3 NAT 100 Month MAY Day 12 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
DRILLING STRING	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	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	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	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	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	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.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUD PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	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	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
		RACKING RIG ALL CREW ON DAYLIGHTS — 8 / 4 / 8	
	Driller Coghill	Driller McKnight	Driller Hockey

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

LSD _____ SEC _____ TWN _____ RGE _____ W _____ Contractor Imp Oil Enterprise Type Rig NAT #3 NAT 100 Month MAY Day 11 19 66

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.

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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

Driller 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.

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

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.
RACKING Rig	4		
ALL CREWS ON DAYLIGHTS		8	9

Driller McKenzie

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.

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

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.

Driller Hockey

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

LSD _____ SEC _____ TWN _____ RGE _____ W _____ Contractor Imp. Oil Enterprises Type Rig NAT #3 NAT 100 Month MAY Day 10 19 66

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
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	INDICATOR WEIGHT OF TOTAL DRILL COLLARS

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	INDICATOR WEIGHT OF TOTAL DRILL COLLARS

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	INDICATOR WEIGHT OF TOTAL 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 _____

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 _____

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 _____

RUSH PUMP RECORD

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

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						

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

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

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

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

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.

	From	To	Hrs.
TEARING OUT	4		
ALL CREWS ON		8	
DAY LIGHTS			

	From	To	Hrs.

Driller _____

Driller _____

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 _____ Approved by _____

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

LSD. _____ SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor Imp Oil Enterprises Type Rig NAT #3 NAT 100 Month MAY Day 9 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	INDICATOR WEIGHT OF TOTAL 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

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 Kuffner

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	INDICATOR WEIGHT OF TOTAL 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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TEARING OUT	8	4	8

Driller [signature]

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	INDICATOR WEIGHT OF TOTAL 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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TEARING OUT	4	12	8

Driller [signature]

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. 1-56-61-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 150

LSD ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor Loga Oil Ent. Type Rig NHT 100 Month May Day 9 19 66

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	INDICATOR WEIGHT OF TOTAL 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

No.	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		plug #4			= 950-850
1:20		sacks	cement plug		
P.M.		down	1:30 A.M.		
Fill		50-	pl.g	12	
		5 gals	Cromox 235		5 gals Diesel

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Running cement plug #4.	12:00	1:30	1½
Pull out Lay down pipe	1:30	4:00	2½
Tearing out	4:00	8:00	4

Driller Clifford Kuppin

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	INDICATOR WEIGHT OF TOTAL 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
					2½ GAL. Fuel oil.
		2% Ca. Cl.			2½ GAL. CROMOX 235
9:20		P.M.	plug	@ 780	
6"	plug	high.			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Put 10 sacks cement	4:00		
in conductor pipe			
5 sacks in mouse hole			
10 sacks in rat hole.		4	
Rig Released at 4 PM			
May 9 - 1966			

Driller M. 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	INDICATOR WEIGHT OF TOTAL 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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Tearing out	8	12	8

Driller J. McKenzie

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. 1-50-67-30-13E-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 149

..... LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. OIL ENT Type Rig NAT 160 Month MAY Day 7 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation

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

DRILLING STRING

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

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1						
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.
Pulling, laying down 9⅝ Casing	12⁰⁰	8⁰⁰	8.

Driller Clifford Kaspen

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

DEPTH

From	To	Hole Made	Hole Size	Formation

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

DRILLING STRING

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
					5 GAL. FUEL OIL
					5 GAL. CROMOX 235
					Ran plug #3 at 3940 - 3840
					with 100 sacks cement plus 2% Ca.Cl.
					Plug down at 1130 Felt Ce-
					ment plug at 3815

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

	From	To	Hrs.
Pull 9⅝ CASING	8	8³⁰	½
CLEAN up FLOOR	8³⁰	9	½
RUN 33 STANDS	9	12⁴⁵	3¾
LAYED SAME DOWN		12⁴⁵	3¾
RUN IN HOLE TO	12⁴⁵		
RUN CEMENT PLUG		2	1¼
CEMENTING	2	3	1
PULL	3	4	1

Driller W Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation

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

DRILLING STRING

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

CORING

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

	From	To	Hrs.
Laying down drill pipe	4	6	2
Cleaning out mud tanks - general clean up	6	10²⁰	4⅓
Running in hole to check for plug	10³⁰	11³²	1
Tag plug @ 3815. pulled out - laying down drill pipe	11	12	1

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 ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 14

I.O.E.S.T. ONT. LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENT. Type Rig Ulert #3 Month May. Day 6. 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.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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 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.
Tearing out B.O.Ps.	12 00		
Deepening cellar 4 feet.		8 00	

Driller Clifford Nixon

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.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WORK & WELD ON 9 5/8 CASING TO RECOVER SAME	8	4	8

Driller W. Eagle

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.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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
		Slht	9 5/8		Casing on TOP
		at	3892 Ft.		
			(Homco)		

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Work and Weld on 9 5/8 casing	4 00	6 00	2
Rig up Schlumberger to run Freepoint Tester, Collar Locater Collar Buster & Shot in 9 5/8 casing	6 00	11 15	5 1/4
Work 9 5/8 Casing	11 15	11 45	1/2
Pull out 9 5/8 Casing and	11 45	12 00	1/4
			8

Driller George McKenzie

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 C. Dennett Approved by .....

Form 34402 (300 bks.-10-64) P.P.Co. I-50-67-30-135-W1

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 147

T.O.E. Stony SD. SEC. TWN. RGE. W. Contractor Type Rig Nat #3 Month May Day 5 1966

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
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	INDICATOR WEIGHT OF TOTAL 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

FLUSH 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

2nd Tour:
2½ GAL ~~DIESEL~~ fuel oil
2½ GAL. CRONOX 235

3rd Tour:
5 gals Lignox
235
5 gals of fuel Oil

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C.	12 00	4 30	4½.
Run in 11 stands.	4 30		
Plug at 10300'		5 00	½.
Pull 4 stands circulate	5 00	5 45	¾.
Run Plug #2	5 45		
Displace		6 30	¾.
Pulled 17 stands	6 30		
W.O.C.		8 00	1½.

Driller Clifford Kruger

	From	To	Hrs.
W. O. C.	48		
LAYED DOWN 21 SINGLES		2 30	6½
FEET FOR PLUG #2	2 30		
PLUG @ 9750		4	1½
PULLED WET PIPE			8

Driller W. Coghill

	From	To	Hrs.
Pullout of hole	400	530	1½
Layed down 160 singles	530	800	2½
Remove table and			
Install B.O.P.S	800	1200	4

Driller George McKenzie

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. Dennett Approved by

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 146

TOE STORY LSD SEC TWN RGE W. Contractor IMP OIL ENT. Type Rig Natco #3 Month May. Day 4 19

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10968			8 5/8	

DRILLING STRING

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

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

FLUSH PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5		14"		5 3/4

No. 1 (HOMCO) Bowen Oil Tools

No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					D.S.T.#4 Johnston Testers 2 3/4 dual packers with setting Tool. Interval 9837-9896. I.O. 5 MIN. V.C. 11 33 Shut in 1 hr. V.O. 12 33 Steady blow thru out test. V.C. 6 32 AM Shut in 1 hr. 50 M to pull loose.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Rec. 2150		mud &	salt		water

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Testing Tool.	12 00	3 00	3
Pulling Loose	3 00	3 15	1/4
Trip out	3 15	6 45	3 1/2
Servicing and Breaking down Packer	6 45	8 00	1 1/4

Driller Clifford Hagan

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10968			8 5/8	

DRILLING STRING

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

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
DRILL COLLAR						
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
					2 1/2 gals Cacoay 225 2 1/2 gals diesel fuel good initial blow

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

	From	To	Hrs.
CLEAN UP & LAY DOWN	8		
TESTING TOOLS		9 45	1 3/4
LAY DOWN 12-7" D.COLLARS	9 45	12	2 1/4
RUN WITH OPEN END PIPE	12		
TAKE OFF ALL RUBBER CASING PROTECTORS		4	4
			8

Driller Clifford Hagan

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10968			8 5/8	

DRILLING STRING

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

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
DRILL COLLAR						
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
					Abandonment plug # 1 10,620 - 10,320 Cemented with 166 common Set plug down 7:30 P.M. plug 4:30 A.M Set plug

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
@	10,388				

	From	To	Hrs.
Take off rubber casing protectors	4 00	4 30	1/2
Run in hole	4 30	5 30	1
Condition mud	5 30	6 30	1
Cementing and displacing	6 30	7 30	1
Pull out 6/5 stands	7 30	8 00	1/2
W.O.C.	8 00	12 00	4
			8

Driller George McKenzie

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. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. 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. 14

I.O.E. STONY LSD. J-50-67-30-135-16 SEC. TWN. RGE. W.

Contractor I.O.E. NAT. #3 Type Rig NATIONAL 100 Month MAY Day 3 19

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10943	10968	25	7 7/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	111	2	6	343.48	55-60

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	12	7	2 13/16	343.48	DRILLING STRING	DRILL COLLARS
DATA					204M	311

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	◇	11 30 PM	6 30 AM			10-14	26	

Bit Serial No. 7655 Table R.P.M. 60

Jet or Conventional - ◇ Nozzle Size

SURVEYS

Kind at Ft. Deg. off

FLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7¼		950	14	50	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2:00	48	9.3			Water 18 BBLls
4:00	48	9.3			50 lbs Caustic soda
6:00	54	9.3		10.1	150 lbs TILTEX
					100 lbs KWIK-FIX
9.5 at SHAKER					33 lbs Cro-Chem

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
10942	10968	26'	26	13	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CORING	1500	630	6½
CIRCULATE	630	715	¾
PULL OUT OF HOLE	715	800	¾
			8

Rod (Homco) Bowen
O.I. guns on
core bbl.

Driller J. Hoekstra

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

From	To	Hole Made	Hole Size	Formation
10968				

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

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

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		14"		5 7/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

2 Gals Cronox 2 Gal Diesel in D.C.

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

	From	To	Hrs.
Trip out	800	1015	2¼
Recovering Core	1015	1045	½
Laying down Core Barrel	1045	1130	½
Run in and Layed down 12 7" Drill Collars	1130	200	2
Cut 57' Drilling Line	200	245	¾
Waiting on D.S.T. tools	245	430	2
Service Rig Check B.O.P.s			

Driller Clifford Kruppen

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

From	To	Hole Made	Hole Size	Formation
10968			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	104				

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	12	7	2¾		DRILLING STRING	DRILL COLLARS
DATA					140M	

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.
WAIT ON TESTING TOOLS	4	7	3
MAKE UP TESTER	7	830	1½
TRIP IN - MEASURE PIPE	830	1130	3
SET TESTER	1130	12	3½
			8

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-T0-64)-P.P.Co. 250-67 0N 135° 15W 4th

E.O.E.S to N.G. LSD SEC TWN RGE W.

IMPERIAL OIL LIMITED

Contractor Type Rig Nat #3 Month May Day 2 19

DAILY DRILLING REPORT No. 144

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
10942				

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10942				

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10942	10943	1	7 13/16	

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

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	115				

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

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	111	2	32	343-48	556

DRILL / COLLAR / DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	12	7"	2¾	343-48		
					204M	3

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.	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
	8		14"		5 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
A#								
6	◇	11 32				8-10		

Bit Serial No. 7655 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
			16	34	

SURVEYS

FLUSH PUMP RECORD No. 1 No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Used Diamond Between oil sands
					D S T #2 Tolhostad Testers 7¾ Dual straddle Test Interval 10,595 - 10,655 opened tool, rapid fluid drop pulled out of hole.

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					D S T #3 Tolhostad Testers 7¾ dual straddle test Interval 9823 - 9883 Opened tool immediate fluid drop pulled out of hole.

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Testers.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
RECOVERED [illegible] FT [illegible] WATER.					

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
		Used (Diamond) Between oil sands			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
10942	10943			13	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN HOLE WITH TESTING TOOLS	12 00	12 45	¾
SETTING PACKER - LOST SEAT	12 45	1 30	¾
PULL OUT OF HOLE	1 30	5 45	4 ¼
SERVICE TESTING TOOLS.	6 45	8 00	2 ¼
			8

	From	To	Hrs.
Rigging up Tools For D.S.T #3	4 30	9 30	1½
Service Rig Check B.OPs	9 30	10 00	½
Running in with Testing Tools	10 00	12 30	2½
Setting Packer No seat	12 30	1 00	½
Trip out with Packer	1 00	1 30	½
Repairing Lowr Chain in Transmission	1 30	2 00	½
Trip out.	2 00	4 00	2

	From	To	Hrs.
Tripping	4 00	5 00	1
Breaking and Laying Down Packer and Anchor	5 00	6 30	1½
Pick up Core Barrel and service Same.	6 30	7 30	1
Trip in with Core Barrel	7 30	10 45	3¼
CLEAN TO BOTTOM - CIRCULATE BEFORE CORING	10 45	11 30	¾
CORING	11 30	R 00	½

Driller Hockey

Driller Clifford Kragan

Driller Kragan - Hockey

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. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ✓ NO

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 143

I.O.E. STONY LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor I.O.E. NAT. #3 Type Rig NATIONAL #100 Month MAY Day 1 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10942				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	112	1	2H	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	2H	7	2 3/4	682.01	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 ____

FLUSH 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.
LOGGING	12 00	8 00	8
MICRO-CALIPER	12 00	5 00	
DIP METER	5 00	8 00	

Driller I Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10942				

DRILLING STRING

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

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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 ____

FLUSH 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	4 00	8
Dip meter	8 00	2 00	
Velocity Survey	2 00	4 00	

Driller Clifford Kuipers

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10942				

DRILLING STRING

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

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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 Founds	FOOTAGE Drilled	FOOTAGE Reamed

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

Jet or Conventional - ____ Nozzle Size ____

Kind ____ at ____ Ft. ____ Deg. off ____

FLUSH 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
					Added 2½ gal Conoco 235

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Logging	4 00		
Velocity Survey	4 00	5 30	1½
Laying Down Logging Tools	5 30	6 00	½
Cut 67' Drilling line	6 00	6 45	¾
Making and Picking up.	6 45		
Packer Tools.		9 15	2½
Rig. In 4 STANDS FILL WATER PIPE	9 15	9 45	½
Running in hole	9 45	12	2¼

Driller Kuipers — Hockey

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.

I.O.E. I-50-67-30-135-15
STONY LSD. SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 142

Contractor I.O.E. NAT. #3 Type Rig NAT-100 Month APRIL Day 30 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10942	—	—	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	136	—	39	3H3-48	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	12	7	2¾	3H3-48	DRILLING STRING	DRILL COLLARS
DATA					200M	31M

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	◇							

Bit Serial No. 9103 Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

FLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	6	1500	950	14	36.71	5 3/4
No. 2	4	COMP	1500	13	42	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 00	48	9.3			50 lbs caustic sd
4 00	46	9.3		10.1	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REAMING WITH CORE BIT	12 00	5 00	5
6 STANDS OFF BOTTOM			
PUMP OUT 3 SINGLES	5 00	6 00	1
PULL OUT OF HOLE	6 00	8 00	2
			8

Driller Hexham

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

From	To	Hole Made	Hole Size	Formation
10942				

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

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

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
			7.2	10.3	

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

	From	To	Hrs.
Trip out	5 00		
Layed Down Jars and Core Barrel.		9 00	1.
Rigging up to Log Hole.	9 00		
Logging		4 00	7
Schlumberger electric log			
" " "			
B. H. C. Sonic			5.15

Driller Cliff Kuipers

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

From	To	Hole Made	Hole Size	Formation
10942				

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

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

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.
LOGGING	4 00	12 00	8
SONIC - GAMA-RAY			
10 AM - 12 45 noon			
12 45 - 4			
4 - 12 midnight			

Driller Kuipers - Hexham

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 A. Sennett Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 141

I-O-E-STONY | I-50-67-30-135-15 | LSD | SEC | TWN | RGE | W | Contractor I.O.E. NAT. #3 | Type Rig NAT. 100 | Month APRIL | Day 29 | 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10913	—	—	8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	112		23	682.01	TOOLS 17.89

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	24	7	2 3/4	682.01	DRILLING STRING 226	DRILL COLLARS 63M

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
105	YHWG							

Bit Serial No. E2310 — Table R.P.M.

Jet or Conventional - JET — Nozzle Size 11 11 11 3/32

SURVEYS

Kind — at — Ft. — Deg. off

FLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1½		1950	14	71	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CHECK KELLY COCK.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION = 10H 7B BT GO'S					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT OF HOLE.	12 00	2 00	2
SERVICE RIG - B.O.P.	2 00	2 30	½
PICK UP JONK SUB - STEP REAMER	2 30		
JARS.		3 15	¾
RUN IN HOLE	3 15	6 00	2 ¾
REAM UNDER GAUGE HOLE	6 00	8 00	2
			8
Second run on Jars.			

Driller Hoeking

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10913	10942	29	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	112	1	24'	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	24	7"	2 3/4"	682.01	DRILLING STRING 227	DRILL COLLARS 63M

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
105	YHWG	8 15 AM	3 45 PM	29	10942	30	29	

Bit Serial No. E2310 — Table R.P.M. 60

Jet or Conventional - — Nozzle Size 3 1/32

Kind — at — Ft. — Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6	1	1825	14"	72	5 3/4
	2		1850	18"	52	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	47	9.3	7.6	9.8	Bbls Water
11 00	46	9.3			75# Plaster
1 00	47	9.3			50# Caustic
3 00	46	9.3		10.	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Junk Sub - 2.63. Jars 7.60 Total 17.89. Reamer - 5.56. Subs 2.10					

	From	To	Hrs.
Working Junk Sub.	8 00	8 15	¼
Drilling	8 15	3 15	7
Tripping	3 15	4 00	¾

Driller Clifford Kuppin

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10942			8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	116	—	39	343.48	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	12	7"	2 3/4	343.48	DRILLING STRING 200M	DRILL COLLARS 31M

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	◇							

Bit Serial No. 8103 — 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
	1½		1000	14	75	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

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

	From	To	Hrs.
Tripping	4 00	7 00	3.
Service Rig Check B.O.Ps	7 00	7 30	½
Pick up Core Barrel	7 30	8 00	½
RUN IN WITH CORE BBL. TO	8 00		
10225		10 30	2½
REAMING TO 70 FT	10 30	12 00	1½
8 STANDS OFF BOTTOM			8

Driller Kuppin - Hoeking

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ✓ NO ____

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

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 140

I.O.E. STONY I-50-67-30-135-15 LSD SEC TWN RGE W Contractor I.O.E. NAT #3 Type Rig NAT. 100 Month APRIL Day 28 19 66

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
10821	10830	9	8 5/8	DOLOMITE

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10830	10876	46.	8 5/8"	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10876	10913	37	8 5/8"	DOLOMITE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	111	1	27	682.01	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	111	2	12.	682.01	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	112	—	5	682.01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7	2 3/4	682.01	225M	63M

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7"	2 3/4"	682.01	226M.	63M.

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7	2 3/4	682.01	226M	63M.

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
103	YHWG	1 12 AM	1 30 P.M.	12	10830	45	85	
104	WTR2							

Bit Serial No. E03150 86818 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 10 10 10 32

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
104	WTR2	10 15 AM.				45M.		

Bit Serial No. 86818 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3-11/32.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
104	WTR2	10 15 AM	9 00	11½	10913	45-50	83	

Bit Serial No. 86818 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 11 11 11 32

SURVEYS

Kind TOTCO at 10825 Ft. 7° Deg. off

Kind at Ft. Deg. off

Kind TOTCO at 10908 Ft. 6 3/4 Deg. off

PUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1		6				
2			1400	19	61	5 3/4

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6	1½	1750	14"	72	5 3/4
			18"		5 3/4

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½		1750	14	72	5 3/4
1		1750	14	51	

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	46	9.3			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11 00	48	9.3			5 Bbls water
1 00	47	9.3	7.8	9.7	50 lbs Caustic
2 30	48	9.2			
3 30	49	9.3			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	48	9.2			Water
5 00	47	9.1			
9 00	47	9.1			

CORING

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 103 Condition T6 B4 G1.					

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	1 30	1½
CIRCULATE - SURVEY	1 30	2 00	½
PULL OUT OF HOLE	2 00	5 45	3 3/4
SERVICE RIG - B.O.P.	5 45	6 15	½
RUN IN DRILL COLLARS	6 15	6 45	½
CUT 67 FT DRLG LINE	6 45	7 30	¾
RUN IN HOLE	7 30	8 00	½
			8

	From	To	Hrs.
Trip in Hole	8 00	8 45	¾.
Filling Pipe	8 45	9 00	¼.
Trip in Hole	9 00	10 00	1.
Filling Pipe Clean to Bottom	10 00	10 12	¼.
Drilling	10 12	4 00	5 ¾.

	From	To	Hrs.
Drilling	4 00	9 45	5 ¾
CIRCULATE SURVEY	9 45	10 15	½
PULL OUT OF HOLE	10 15	12 00	1 ¾
			8

Driller Hockley

Driller Clifford Kippan

Driller Kippan — Hockley

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. Desmarais Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 139

I.O.E. I-50-67-30-135-15
STONY LSD SEC TWN RGE W. Contractor I.O.E. NAT. #3 Type Rig NAT. 100 Month APRIL Day 27 19 66

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
10704	10745	41	8 5/8	DOLOMITE

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10745	10766	21	8 5/8"	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10766	10821	55	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	110	1	20	682-01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2 3/4	682.01		
DATA					225M	63M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	110	2.	30.	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7"	2 3/4"	682.01		
DATA					225M.	63M.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	110	/	7	682-01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2 3/4	682.01		
DATA					225M	63M.

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
102	YH	9 45 PM	6 00	8 1/4	10745	40-	57	

Bit Serial No. E23130 Table R.P.M. 60
Jet or Conventional - JET Nozzle Size 11 11 11 32

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
103	YHWG	1 45 PM				45M		

Bit Serial No. ED3150 Table R.P.M. 60
Jet or Conventional - Nozzle Size 2-10 1-12

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
103	YHWG	1 15 PM				45		

Bit Serial No. ED3150 Table R.P.M. 60
Jet or Conventional - Nozzle Size 2-10 1-12

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	6 1/4		1900	14	71	5 3/4
No. 2	2		1500	14	50	5 3/4

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2 3/4	5-	1900	14"	71	5- 3/4
				18"		5- 3/4

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6 1/4		1900	14	71	5 3/4
	1 3/4		1800	18	50	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	45	9.3		9.8	Water
2 00	45	9.3			50 lbs Caustic soda
4 00	44	9.3			100 lbs KELZAN H
6 00	44	9.3			33 lbs, Cro-Clor.

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
145	46	9.3	7.7	10.	
3 30	46	9.2			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	47	9.2		10.0	Water 1/3 Bbl
6 00	46	9.1			Kelzan 100
8 00	45	9.1			Chromic chloride 33
10 00	45	9.1			

CORING

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 102 Condition T6 B3 G1					

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	6 00	6
CIRCULATE	6 00	6 15	1/4
PULL OUT OF HOLE	6 15	8 00	1 3/4
			8

Driller Hackett

	From	To	Hrs.
Trip out	8 00	10 00	2.
Service Rig Check B.O.Ps	10 00	10 30	1/2.
Trip in Hole.	10 30	1 00	2 1/2
Fill Pipe	1 00	1 15	1/4.
Drilling	1 15	4 00	2 3/4.

Driller Clifford Kippen

	From	To	Hrs.
DRILLING	4 00	10 00	6
CHANGE PUMPS	10 00	10 15	1/4
DRILLING	10 15	12 00	1 3/4
			8

Driller Kippen - Hackett

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

NAT. #3

DAILY DRILLING REPORT No. 138

JOE STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month APRIL Day 26 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10575	10636	61	8 5/8	DOLOMITE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	109	—	4	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7"	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					226M	63M

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
101	WTR-J	2 13 PM				25-30		

Bit Serial No. 21874 Table R.P.M. 60

Jet ~~or Conventional~~ - 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	4¼		1850	14	72	5¾
No. 2	2¼		1100	16	48	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 00	48	9.2			Water
4 00	53	9.1			Pel Tex 150#
6 00	48	9.1	7.1	9.4	Caustic 100#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT # 100 T 5-B 3-G 0 1/8					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12 00	1 30	1½
BREAK CIRCULATION +	1 30		
REAM TO BOTTOM		2 15	¾
DRILLING	2 15	8 00	5¾
			8

Driller Kormoran

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

From	To	Hole Made	Hole Size	Formation
10636	10688	52	8 5/8	DOLOMITE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	109	2	14	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					225M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
101	WTAJ	2 22 PM	2 34	12	10688	30-40	113	

Bit Serial No. 21874 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11/32

Kind TOTCO at 10683 Ft. 4½° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6½	1½	1900	14	71	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	46	9.2			Water
10 00	45	9.3			Hi Zarth 10 lbs.
12 00	46	9.3			Cg. Chor 33 lbs.
2 00	46	9.3			50 lbs caustic

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

	From	To	Hrs.
DRILLING	8 00	2 15	6¼
SURVEY - CIRCULATE	2 15	2 45	½
PULL OUT OF HOLE	2 45	4 00	1¼
			8

Driller Hockers

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

From	To	Hole Made	Hole Size	Formation
10688	10704	16	8 5/8"	Dolomite

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	110	—	30	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7"	2¾"	682.01	DRILLING STRING	DRILL COLLARS
DATA					225M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
102	YH	9 45 PM				40-45		

Bit Serial No. E23130 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 11/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½	5"	1900	14"	71	5 3/4
			14"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 15	48	9.3			
11 30	45	9.2			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 101 Condition T 6 B 4 G 1					

	From	To	Hrs.
Checked Kelly Cock.			
Trip out	4 00	6 45	2¾
Service Rig Check B.OPs.	6 45	7 15	½
Trip in Hole	7 15	9 38	2¼
Fill Pipe	9 38	9 45	¼
Drilling	9 45	12 00	2¼

Driller Clifford Kruger

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

NAT. #3

DAILY DRILLING REPORT No. 137

1.0 E. STONY LSD ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor IMP. OIL ENTER DR. Type Rig NAT. 100 Month APRIL Day 25 1966

DEPTH

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

From	To	Hole Made	Hole Size	Formation
10424	10464	40	8 5/8	DOLOMITE

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

From	To	Hole Made	Hole Size	Formation
10464	10548	84	8 5/8	DOLOMITE

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

From	To	Hole Made	Hole Size	Formation
10548	10575	27.	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	107	1	20	682.01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	24	7"	2¾	682.01	224 M	63 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	108	1	30	682.01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	24	7	2¾	682.01	224 M	63 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	168	1	3.	682.01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING	DRILL COLLARS
	24	7"	2¾"	682.01	226 M	63 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
100	YHWG	3:15 AM				28-30		

Bit Serial No. E34528 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
100	YHWG	3:15 AM				30M		

Bit Serial No. E34528 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 11 32

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
100	YHWG	3 45 AM	6 00 PM	14¾	10575	30M	151	
101	W7B-J							

Bit Serial No. E34528. 21874 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 11/32.

SURVEYS

Kind ____ at ____ Ft. ____ Deg. off

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	5½		1900	14	72	5 3/4
No. 2				18		5 3/4

Kind ____ at ____ Ft. ____ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		19 hrs	19	14	71	5 3/4

Kind Toteco at 10570 Ft. 8 1/4° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2.		1850	14"	72	5- 3/4
				18"		5- 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	53	9.3			Water
6 00	49	9.3	6.8	9.5	100 lbs. Polymer

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	45	9.2			Water 35 bbls.
10 00	45	9.3			50 lbs. Caustic Soda
12 00	43	9.3			25 lbs. Dowicide B
2 00	43	9.2			33 lbs. CR3 Chor.
3 00	45	9.2			1000 lbs Gel

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	45	9.1			

CORING

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

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

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

CONDITION BIT # 90 T4-B2-G1

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REMOVE CORROSION RINGS	12 00	12 15	¼
RUN IN	12 15	2 30	2¼
BREAK CIRCULATION +	2 30		
CLEAN TO BOTTOM		3 15	¾
DRILLING	3 15	7 00	4¾
			8

	From	To	Hrs.
DRILLING	8 00	4 00	8

	From	To	Hrs.
Drilling	4 00	6 00	2.
Toteco at 10570' Circulating	6 00	6 30	½
Trip out of Hole	6 30	9 45	3¼.
Service Rig. Check B.O.Ps	9 45	10 15	½.
Run in Drill Collars	10 15	10 45	½.
Cut 67' Drilling Line	10 45	11 15	½
Trip in Hole	11 15	12 00	¾
			8

Driller Kornemann

Driller Hockey

Driller Clifford Kingsmen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

10E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. NAT. # 3 Type Rig NAT. 100 Month APRIL Day 24 19 66

DAILY DRILLING REPORT No. 136

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10405	10424	19	8 5/8	DOLOMITE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	106	2	DOWN	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7"	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					223M	63M

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
99	YH	9:15 PM	3:30 PM	2¾	10424	20-30	40	

Bit Serial No. E 64071 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

SURVEYS

Kind at Ft. Deg. off

MUD RECORD

PUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1400	14	72	5¾
			14		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	48	9.1			Water
2:00	48	9.1			
					Lost one inch of mud

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRCULATE SAMPLES @ 10405	12:00	12:30	½
DRILLING	12:30	2:00	1½
CIRCULATE TO TEST	2:00	3:30	1½
PULL OUT TO TEST	3:30	7:00	3½
SERVICE RIG CHECK BOPS	7:00	7:30	½
MAKE UP PACKER	7:30	8:00	½
			8

Driller Kornemann

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

From	To	Hole Made	Hole Size	Formation
10424			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	110	—	—	343.48	

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

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
D.S.T. #1.					Tot Husted Tactors.
2¼ Dual packers					(Homco) Dowell Oil Tools.
Interval testing					= 10,370 - 10 424
V.O. 2:40					Initial shut in thru V.O

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Added 5 gal Guar at 7:35					

	From	To	Hrs.
MAKE UP PACKER-JARS	8:00	9:30	1½
WORM ON HYDRAMATIC	9:30	10:30	1
RUN IN HOLE WITH PACKER	10:30	2:00	3½
THAW TESTING LINE	2:00	2:15	¼
SETTING TOOL	2:15	2:45	½
TESTING	2:45	4:00	1¼
			8

Driller Lockhart

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

From	To	Hole Made	Hole Size	Formation
10424			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	110	—	—	343.48	

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

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

Bit Serial No. E34528 Table R.P.M.

Jet or Conventional - Nozzle Size 3 11/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		14"		5-3/4
			14"		5-3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	35				52 Shut in.

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

	From	To	Hrs.
Testing	4:00	6:00	2.
Pulling Packer Loose	6:00	6:15	¼
Pulling Packer 525' Fluid	6:15	9:15	3.
Breaking, Servicing	9:15		
Laying Down Packer			
Laying Down Jars		11:00	1¾
Hooking up Hydromatic	11:00		
line and pump		11:30	½
Trip in with Bit	11:30	12:00	½

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 ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 135

JOE STONE LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor IMPERIAL ENTERPR. Type Rig NAT. 3 NAT 100 Month APRIL Day 23. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10263	10334	66	8 5/8	DOLOMITE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	106	—	27	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	24	7"	2¾	682.01	DRILLING STRING 223	DRILL COLLARS 63M

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
98	YH	815PM				30M		

Bit Serial No. E64076 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 2-11 1-10

SURVEYS

Kind ____ at ____ Ft. ____ Deg. off

PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8		1800	14	72	5 3/4
2				16		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	47	9.0	6.8	10.0	Water
2:00	47	9.0			Kelzan 100#
4:00	45	9.0			Chromic Chloride 33#
6:00	48	9.0			

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 Kavanaugh

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

From	To	Hole Made	Hole Size	Formation
10334	10384	50	8 5/8	DOLOMITE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	106	1	9	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	24	7	2¾	682.01	DRILLING STRING 222M	DRILL COLLARS 63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
98	YH	8:00AM	1:00PM	17	10384	30M	148	

Bit Serial No. E64076 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11/32

Kind TOTCO at 10380 Ft. 8¼° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5½		1900	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	47	9.1			20 BBLS WATER
10:00	49	9.1			
12:00	48	9.2			

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

	From	To	Hrs.
DRILLING	8:00	1:15	5¼
CIRCULATE — SURVEY	1:15	1:45	½
PULL OUT OF HOLE	1:45	4:00	2¼
			8

Driller Hockett

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

From	To	Hole Made	Hole Size	Formation
10384	10405	21	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	106	2	19	682.01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	24	7"	2¾	682.01	DRILLING STRING 223M	DRILL COLLARS 63M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
99	YH	9:47PM				30M.		

Bit Serial No. E64071 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 11/32

Kind ____ at ____ Ft. ____ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	3	1900	14½	71	5 3/4
1		1800	18½	52	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	50	9.2			2 Lbls Water
11:30	47	9.1			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 98 Condition T 6 B 4 G 1					

	From	To	Hrs.
Trip out of Hole.	4:00	5:15	1¼.
Service Rig Check B.OPs.	5:15	5:45	½.
Run in with Drill Collars	5:45	6:15	½.
Cut 67' Drilling Line	6:15	6:45	½.
Trip in Hole	6:45	9:00	2¼.
Fill Pipe Ream To Bottom	9:00	9:15	¼.
Drilling	9:15	10:30	1¼
Circulating up sample	10:30	12:00	1½

Driller Clifford Kaspar

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

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO ____

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

IMP. OIL STONY LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor IMP. OIL ENTER. PR. NAT. #3 Type Rig NAT. 100

DAILY DRILLING REPORT No. 134

Month APRIL Day 22 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10158	10213	55	8 5/8	LIME-DOLOM.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	104	2	27	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7"	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					223 M	63 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
97	W7R2	10 45 AM				18-20		

Bit Serial No. 86815 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3-11 1-10

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	8		1800	14	72	5¾
No. 2				18		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2:00	50	9.2			Water 15 BBL
2:00	48	9.1			Caustic 25#
4:00	48	9.1		9.7	
6:00	47	9.1			TOP 350 ppm
					9.3 at SHAKER

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 Kennemer

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

From	To	Hole Made	Hole Size	Formation
10213	10236	23	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	104	2	6	682-01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7"	2¾	682-01	DRILLING STRING	DRILL COLLARS
DATA					221 M	63 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
97	W7R2	10 45 AM	12 30 PM	13¾	10236	20	49	

Bit Serial No. 86815 Table R.P.M.

Jet or Conventional - JET Nozzle Size 11 11 11 32

Kind TOTCO at 10230 Ft. 7 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4¾		1800	24	72	5¾
			18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	46	9.1		9.8	Water 5 BBLS
10:00	47	9.1			Caustic 50#

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

	From	To	Hrs.
DRILLING	8:00	12:30	4½
CIRCULATE-SURVEY	12:30	1:00	½
PULL-OUT OF HOLE	1:00	4:00	3
			8

Driller Hockett

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

From	To	Hole Made	Hole Size	Formation
10236	10268	32	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	105	1	32.	582-01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7"	2¾	682-01	DRILLING STRING	DRILL COLLARS
DATA					222M.	63M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
98	YH	8 45 PM				3017		

Bit Serial No. E64076 Table R.P.M.

Jet or Conventional - Nozzle Size 3-15 1-10

Kind ____ at ____ Ft. ____ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4	3½	1800	14"	72	5¾
			18"		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:00	49	9.2			3 BBLS water
10:30	48	9.1	6.7	10.1	
11:30	47	9.			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 97 Condition T5.B3.G1.					

	From	To	Hrs.
Trip out	4:30	4:30	½.
Service Rig Check B.O.Ps	4:30	5:00	½.
Trip in Hole	5:00	6:45	1¾.
Fill Pipe	6:45	7:00	¼.
Trip in Hole	7:00	8:00	1.
Fill Pipe Ream to Bottom	8:00	8:15	¼.
Drilling	8:15	12:00	3¾

Driller Clifford Knippa

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

NAT. #3

DAILY DRILLING REPORT No. 133

10E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month APRIL Day 21. 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10122	10129	7	8 7/16	LIME-DOLOM.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	107	—	23	343.48	30.02

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
	COLLAR	12	7"	2¾	343.48	DRILLING STRING / DRILL COLLARS
	DATA					202M

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	DIAM	6.00 AM				17-18		

Bit Serial No. HYCALOG 8103 Table R.P.M. 60

Jet or Conventional - DIAM. 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	6¾		800	14	56-58	5¾
No. 2				18		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4.00	49	9.1			Water
6.00	42	9.1			
					Ran Jars on Core Barrel.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
10122	10129	7	NOT OUT	12	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12.00	1.15	1¼
REAM TIGHT HOLE FROM 9766-9886, 10126-10156	1.15	5.00	3¾
REAM UNDERGAUGE HOLE FROM 10118-10122	5.00	6.00	1
CORING	6.00	8.00	2
			8

Driller Kopmeier

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10129	10147	18	8 9/16	LIME-DOL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	107	—	5	343.48	30.02

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
	COLLAR	12	7	2¾	343.48	DRILLING STRING / DRILL COLLARS
	DATA					200M

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	DIAM.	6.00 AM	2.00 PM	8½	10147	18-20	25	

Bit Serial No. 8103 Table R.P.M. 60-78

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
	6½	1½	800	14	54-58	5¾
				18		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.00	44	9.1	7	10.0	Water 6 Bbls
1.00	47	9.1			
					TCP 325 ppm.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
10122	10147	25	25	12	HYCALOG.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CORING	8.00	2.30	6½
PULL OUT OF HOLE	2.30	4.00	1½
			8

Driller Hackett

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10147	10158	11	8⅝"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	104	—	23.	682.01	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
	COLLAR	24	7"	2¾"	682.01	DRILLING STRING / DRILL COLLARS
	DATA					222M / 6319.

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
91	INTR2	10.45 PM				20M		

Bit Serial No. 86915 Table R.P.M. 60.

Jet or Conventional - Nozzle Size 2-11 1-15.

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
	1¾	6	1900	14"	91	5¾
				18"		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11.30	50	9.2			1 Bbl Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out with Core	4.30		
Layed down Jars		6.00	2.
Recovering Core	6.00		
Layed down Core Barrel		7.00	1
Service Rig Check B.O.Ps	7.00	7.30	½
Trip in Hole	7.30	10.00	2½
Reaming down to Bottom	10.00	10.45	¾
Drilling	10.45	12.00	1¼

Driller Clifford Hippen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 132

IOE STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPRISES Type Rig NAT. 3 NAT. 100 Month APRIL Day 20 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
10000	10051	51	8 5/8	LIME-DOLOM.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	102	2	11	682.01	REAMER 5.56

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7"	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					219M	63M

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
96	YHWG	2:00 AM				25-30		

Bit Serial No. ED3147 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3-11-32 1-10-32

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
8		1800	14	72	5¾
			18		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	49	9.2			Water
2:00	48	9.3			Kelzan 100#
4:00	45	9.3			Chromic chloride 33#
6:00	47	9.0	9.0	9.6	Caustic 30#

CORING

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

CONDIT. BIT #95 T7-B4-G0 1/16

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REAM TO BOTTOM	12:00	2:00	2
DRILLING	2:00	8:00	6
			8

Driller..... Kormoman

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

From	To	Hole Made	Hole Size	Formation
10051	10117	66	8 5/8	LIME-DOL

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	103	1	9	682.01	REAMER 5.56

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7	2¾	682.01	DRILLING STRING	DRILL COLLARS
DATA					220M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
96	YHWG	2 AM				30		

Bit Serial No. ED3147 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11/16 32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1800	14	72	5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	46	9.2			
10:00	47	9.1			800 lbs GEL
12:00	48	9.1		9.8	25 lbs Dowcide B.
2:00	48	9.1			25 lbs. caustic soda

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

100 lbs CAUSTIC NON USEABLE

	From	To	Hrs.
DRILLING	8:00	4:00	7

Driller..... Hockert

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

From	To	Hole Made	Hole Size	Formation
10117	10122	5	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	103	1	4.	682.01	Reamer 5.56

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7"	2¾"	682.01	DRILLING STRING	DRILL COLLARS
DATA					220M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
96	YHWG	2 PM	4 PM	14¼	10122	30M	122	

Bit Serial No. ED3147 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 9-11 1-10

Kind Totco at 10120 Ft. 6¼° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1¼		1900	14"	7.1	5¾
			15"		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	46	9.			

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

Bit #96 Condition T6 B4 G0 1/16"

	From	To	Hrs.
Drilling	4:00	4:15	¼
Circulating To Core	4:15	5:15	1
Totco at 10120'	5:15	5:30	¼
Trip out of Hole	5:30	9:00	3½
Cut 57' Drilling line	9:00	9:30	½
Service Rig Check B.O.Ps.	9:30	10:00	½
Pick up Core Barrel, Change Stabilizer Service Barrel.	10:00	10:45	¾
Pick up Jars Trip in Hole to core.	10:45	12:00	1¼

Driller..... Clark / Kuzyk

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 A. Bermatch Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. J-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 131

I.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises NAT #3 Type Rig NAT 100 Month APRIL Day 19 1966

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
9909	9969	60	8 3/8	LIME - DOL

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
9969	10000	31	8 5/8	LIME - DOLOMITE

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
10,000	—	—	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	102	—	26	682-01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7"	2 3/4		216 M	63 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	102	1	26	682.01	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7"	2 3/4	682.01	218 M	63 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	102	1	31	682-01	REAMER 5-56

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	24	7	2 3/4	682-01	218	63

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
95	YH	2:30 PM				35M		

Bit Serial No. E64072 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 2-11 1-16-32

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
95	YH	2:30 PM	1:30 PM	19¾	10000	35	172	

Bit Serial No. E 64072 Tabie R.P.M. 60

Jet ~~Conventional~~ - Nozzle Size 2-11 1-16 1/32

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

Bit Serial No. E03147 Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		1900	14"	71	5¾
No. 2				15"		5¾

Kind TOTCO at 9995 Ft. 5° Deg. off

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5½	~~4:30~~	1950	14	72	5 3/4
No. 2				14		5¾

Kind at Ft. Deg. off

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3		1950	14	69	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11:00	47	9.1	7.4	10.19	Water 20 BBLS
2:30	46	9.1			
4:30	47	9.2			
7:00	47	9.2			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	47	9.1			Water
10:00	47	9.1			
12:00	47	9.1			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11:00	49	9.1			

CORING

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

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

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	4:30	4½
WORK ON COMPRESSOR	4:30	4:45	¼
DRILLING	4:45	8	3¼
			8

Driller W. Coghill

	From	To	Hrs.
DRILLING	8:00	12:00	4
CIRCULATE TO CORE	12:00	1:30	1½
TOTCO @ 9995	1:30	1:45	¼
TRIP OUT	1:45	4:00	2¼
			8

Driller Kormanec

	From	To	Hrs.
CHECK KELLY COCK	4:00	5:30	1½
PULL OUT	5:30	6:00	½
SERVICE R.G - B.O.P.	6:00		
RUN IN HOLE —		9:00	3
FILL PIPE	9:00	10:00	1
WORK TIGHT HOLE @ 9850	10:00	12:00	2
REAMING TO BOTTOM			8

Driller Hoe Roy

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 C.D. Kruse Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 130

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises NAT #3 Type Rig NAT 100 Month APRIL Day 18 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9794	9828	34	8 5/8	LIME-Dol

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	100	1	13	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7"	2 3/4			
DATA					214 M	63 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
94	YH	12 NOON	6 15 PM	18½	9828	40M	108	

Bit Serial No. E55179 Table R.P.M. 60

Jet or Conventional - CONV Nozzle Size

Kind TOTCO at 9820 Ft. 4° Deg. off

SURVEYS

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	6		925	14"	74	5 3/4
2						5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 15	45	9.3			Water
2 00	46	9.3		9.9	Caustic 25 lbs.
4 00	45	9.2			
100	45	9.3			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:	6 15	6 1/4
CIRCULATE & TOTCO	6 15	6 45	1/2
TRIP OUT	6 45	8	1 1/4
			8

Driller Loglif

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9828	9837	11	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	100	2	30	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7"	2¾	682.01		
DATA					216 M	63 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
95	YH	2 30 PM				35 M		

Bit Serial No. E64072 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 11-11-10 32

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	1½	6½	1800	14	71	5 3/4
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 00	49	9.2			Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDIT. BIT # 94				15-B4-G1	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIPPING	8 00	1 30	5½
SERVICE RIG, CHECK BOPS	1 30	2 00	½
CLEAN TO BOTTOM	2 00	2 30	½
DRILLING	2 30	3 30	1
CIRCULATE SAMPLES	3 30	4 00	½
@ 9839			8

Driller Kopperman

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9839	9909	70	8 5/8	DOL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	101	1	23	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2¾	682.01		
DATA					216M	63M

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
95	YH	2 30 3-1				35M		

Bit Serial No. E64072 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 10 32

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8		1800	14	71	5 3/4
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	49	9.3			Water 20 BBLS
6 00	48	9.2			50 lbs. PHSLER PAR 15
8 00	47	9.2			50 lbs. Caustic Soda
10 00	48	9.1			
11 00	44	9.1			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRCULATE SAMPLES	4 00	5 00	1
DRILLING	5 00	12 00	7
			8

Driller Hockers

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 129

I.O.E STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp Oil Enterprises Type Rig NAT #3 NAT 100 Month APRIL Day 17 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9193	9720	27	8 7/8	LIME.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	99	1	27	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7"	2 3/4"			
DATA					212 M	63 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
93	YH	7 30 PM	4 AM	20½	9720	35M	155	

Bit Serial No. E6A086 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 2-11-16-32

SURVEYS Kind TOTCO at 9720 Ft. 3½ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1850	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 15	47	9.1			Water
2 00	46	9.2			
4 00	46	9.2			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT #93 T5-B4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	4	4
CIRCULATE - TOTCO	4	4 30	½
TRIP OUT	4 30	7 45	3¼
CHANGE BITS	7 45	8	¼
			8

Driller A. Loughlin

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

From	To	Hole Made	Hole Size	Formation
9720	9746	26	8 5/8	Lime & Nod

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	99	2	33	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2¾	682.01		
DATA					212 m	63m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
94	YH	12:00 Noon				35-40		

Bit Serial No. E55179 Table R.P.M. 60

or Conventional - Conventional Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½		900	14 14	74	5 3 5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	50	9.1			Water
2 00	47	9.2			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Remove & Replace Lockrasson Rings Change Kelly saver sub Grease Blocks Tighten Brakes					

From	To	Hrs.
Service Rig & Check Boys	8 00	8 30	½
Cut Line 8 67 ft.	8 30	9 00	½
Run in Hole	9 00	11 45	2¾
Fill Pipe Clean to Bottom	11 45	12 00	¼
Drilling	12 00	4 00	4
			8

Driller George McKenzie

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

From	To	Hole Made	Hole Size	Formation
9746	9794	48	8 5/8	LIME - Dol

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	100	/	16	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2¾	682.01		
DATA					215 M	63 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
94	YH	12 00 AM				40		

Bit Serial No. E55179 Table R.P.M. 60

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off:

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		900	14	74	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	47	9.3			Water 20 BBLS.
6 00	47	9.3		10.1	25 lbs. CAUSTIC soda
8 00	47	9.3			
10 00	47	9.3			

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

From	To	Hrs.
DRILLING	4 00 12 00	8

Driller Hackett

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 126

10 E. STOREY LSD ..... SEC ..... TWN ..... RGE ..... W ..... Contractor Imp. Oil Enterprises Type Rig NAT #3 NAT 100 Month APRIL Day 16 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9565	9570	5	8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	97	2	27	682-01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2¾			
DATA					212	63M

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
93	YH	7:30 AM				35M		

Bit Serial No. E64086 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 2-11 1-16-32

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

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT #92 - T6-B4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHANGE SINGLE ON D. COLLAR			
TRIP OUT	12	1 45	1¾
REPAIR DRIVE CHAIN	1 45	2 45	1
TRIP OUT	2 45	3 45	1
SERVICE - CHECK B.O.P.	3 45	4 15	½
TRIP IN - FILL PIPE	4 15	7	2¾
WORK PIPE TO BOTTOM	7	7 30	½
DRILLING	7 30	8	½
			8

Driller Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9570	9632	62	8¾	Lime - Dol

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	98	1	25	682-01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2 13/14	682.01		
DATA					212	63m

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
93	YH	7:30 AM				35m		

Bit Serial No. E64086 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 2-11 1-10

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	6		1900	14	70	5½
No. 2	2		1550	18	48	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	49	9.0		10.	Water
11 00	47	9.0			Kelzan 100 #
1 00	47	9.0			chromic chloride 33 #
3 00	48	9.1			TCP 350 ppm
					Suction Tank 9.1 Shaker 9.4

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 Lorne McKenzie

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9632	9693	61	8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	99	/	25	682-01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2¾	682-01		
DATA					214M	63M

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
93	YH	7 30 AM				35M		

Bit Serial No. E64086 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 12 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	7		1900	14	70	5¾
No. 2	1		1550	18	48	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	48	9.2			Water
600	48	9.2			5 C lbs. Caustic Soda
800	47	9.2			
1000	47	9.2			

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 Hockey

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 127

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT. #3 NAT. 100 Month APRIL Day 15 19.66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9420	9462	42'	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	96	1	14	682.01	

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 13/16			
	DATA					210M	63M

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
92	YH	2:15 PM				35M		

Bit Serial No. E64077 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 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	6		1800	14"	71	5 3/4
No. 2				14"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:20	47	9.2		10.	Water
6:00	47	9.1			caustic 35 lbs
7:30	48	9.1			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12	2	2
FILL PIPE: CLEAN TO BOTTOM	2	2:15	1/4
DRILLING	2:15	8	5 3/4
			8

Driller Lew Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9462	9522	60	8 5/8	Lime & Dol

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	97	—	15	682.01	—

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 3/4	682.01		
	DATA					210M	63M

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
92	YH	2:15 PM				35M	>	

Bit Serial No. E64077 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 11-11-10 / 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
			1800	14	71	5 3/4
				14		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	48	9.1			Water
10:00	47	9.0	6.4	10.2	
12:00	47	9.0			
2:00	47	9.0			wt at shaker box 9.3
					TCP 350+

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
			8

Driller George McKenzie

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9522	9565	42	8 5/8	LIME - DOL.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	97	1	2	682.01	

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 3/4	682.01		
	DATA					210M	63M

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
92	YH	2:15 AM	10:45 PM	20½	9565	35M	143	

Bit Serial No. E64077 Table R.P.M. 60

Jet or Conventional - Nozzle Size 11 11 10 / 32

SURVEYS

Kind TOTCO at 9560 Ft. 4¼ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6¼		1350	14	71	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	47	9.1			Water 4 bbls
6:30	49	9.1			1000 lbs CEL
8:00	50	9.1			
10	50	9.2			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4:00	10:45	6 3/4
CIRCULATE - SURVEY	10:45	11:15	1/2
PULL OUT OF HOLE	11:15	12:00	3/4
			8

Driller Harkins

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 C. Wilmore Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 126

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT 100 (NAT #3) Month APRIL Day 14 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9274	9334	60	8 7/8	LIME-DOL.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	95	—	21	682.01	

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 3/4		210	63
	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
91	YH	9:30 PM				35M		

Bit Serial No. E14500 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11-11-10 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	8		1700	14"	70	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	46	9.15	2.0	9.3	Water 5 BBLS
3:00	45	9.1			Caustic 50 lbs
5:00	47	9.1			
7:00	47	9.0			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	8	8

Driller M. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9334	9398	64	8 7/8	LIME-DOL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	95	2	17	682.01	

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 3/4		210M	63
	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
91	YH	9:30 PM				35M		

Bit Serial No. E14500 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 2-11 1-16

Kind ..... at ..... Ft. ..... Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8:00		1650	14	71	5 3/4
				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	48	8.9		10.5	Water
10:00	47	8.9			Kelgan 100 lbs.
12:00	46	8.9			Chromic chloride 33 lbs
2:00	44	8.9			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8	4:00	8

Driller Coghill - Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9398	9420	22	8 7/8	LIME-DOL

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	96	—	25	682.01	

	DRILL COLLAR	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		24	7	2 3/4	682.01	210M	63M
	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
91	YH	9:30 AM	7:00 PM	21½	9420	35M	160	
92	YH							

Bit Serial No. E14500 E64077 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11-11-10 32

Kind TOTCO at 9415 Ft. 4½ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3½		1662	14	71	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	47	8.9			
6:00	47	8.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
B.T CONDITION # 91			T3	-133	GI

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4:00	7:00	3
CIRCULATE - SURVEY	7:00	7:30	½
PULL OUT OF HOLE	7:30	10:45	3¼
SERVICE RIG - B.O.P.	10:45	11:15	½
RUN IN HOLE	11:15	12:00	¾
			8

Driller Hockey

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 125

1.0.E. STOVEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil ENTERPRISES Type Rig NAT 3 NAT 100 Month APRIL Day 13 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9150	9215	65	8 3/8	Lime-Dol.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	93	2	19	682.01	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2 3/4			
DATA					208	63M

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
90	YH	3 30 PM				40M		

Bit Serial No. E6475 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-11-32 1-12

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			1750	14"	71	5 3/4
No. 2				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	48	9.1			Water
2 30	47	9.0			
5 00	47	9.1			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	8	E

Driller W. Coughlin

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

From	To	Hole Made	Hole Size	Formation
9215	9260	45	8 3/8	Lime-Dol

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	94	—	3	682.01	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2 3/4	682.01		
DATA					208M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
90	YH	2:30 PM	2:30	20 3/4	9260	40M	176	

Bit Serial No. E64075 Table R.P.M. 60

Jet or Conventional - Nozzle Size

Kind Toho at 9255 Ft. 4½° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6	2	1750	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	47	9.0			Water
10 00	47	8.9			Kelzan 180#
12 00	47	8.9			Caonic chloride 33#

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

	From	To	Hrs.
Drilling	8:00	11:00	3
Circulate Samples @ 9244	11:00	12:45	1 3/4
Drilling	12:45	2:00	1 1/4
Circulate & Toteo	2:00	2:30	1/2
Trip out of Hole	2:30	4:00	1 1/2

Driller George McKenzie

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

From	To	Hole Made	Hole Size	Formation
9260	9274	14	8 3/8	Dol

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	94	1	20	682.01	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	24	7	2 3/4	682.01		
DATA					209M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
91	YH	9 30 PM				35M		

Bit Serial No. E-14500 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 11 11/16 32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½	5½	1700	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11 00	47	8.8			Water.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
B.T Condition @ 90	T5	BH	GL		

	From	To	Hrs.
Pull out of Hole	4 00	5 45	1 3/4
Service R.C-B.O.P.	5 45	6 15	1/2
Run Drill Collars	6 15	6 45	1/2
Cut Drlg. Line	6 45	7 30	3/4
Run In Hole	7 30	9 30	2
Drilling	9 30	12 00	2 1/2
			8

Driller Hockey

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 C. H. Hunter Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 124

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL. ENT. Type Rig Ca Tools Nat 100 Month APRIL Day 12 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
9030	9081	51	8 3/4"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	93	-	12.	682.01	Jars 9.70.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7"	2 3/4"	682.61		
DATA					207M.	63M.

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
89	WTR2	1:15 PM.				30M.		

Bit Serial No. 86812 Table R.P.M. 62.

Jet or ~~Conventional~~ - Nozzle Size 2-11 1-10.

SURVEYS

Kind ~~E~~ 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		1800	14"	72	5 3/4
No. 2		14		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	46	9.	7.2	10.5	10 Bbls Water
2 00	46				100# Plaster
4 00	46	9.			
6 00	46				
7 30	46	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 Clifford Nippen

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

From	To	Hole Made	Hole Size	Formation
9081	9086	5	8 3/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	92	1	28	682-01	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2 3/4			
DATA					207	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
89	WTR2	1 15 PM	8 15 PM	19	9084	30M	119	25
90	YH	3 30 PM						

Bit Serial No. 86812 - E64075 Table R.P.M. 62.

Jet or Conventional - JET - JET Nozzle Size 2-11 1-10

Kind TOTCO at 9075 Ft. 4 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.
CONDITION BIT # 89 T5-B4-G1					

	From	To	Hrs.
DRILLING	8	8 15	1/4
CIRCULATE & TOTCO	8 15	8 45	1/2
TRIP OUT	8 45	12	3 1/4
BREAK & LAY DOWN JARS	12	12 15	1/4
SERVICE RIG - CHECK B.O.P	12 15	12 45	1/2
TRIP IN - FILL PIPE	12 45	3 30	2 3/4
DRILLING	3 30	4	1/2
			8

Driller W Caskill

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

From	To	Hole Made	Hole Size	Formation
9086	9150	64	8 3/8	Lime

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	93	—	24	682-01	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2 3/4	682-01		
DATA					207M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
90	YH	3 30 PM				40M		

Bit Serial No. E-64075 Table R.P.M. 62

Jet or Conventional - Jet Nozzle Size 2-11 1-10

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1700	14	72	5 3/4
			18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	50	9.			water
6 00	47	9.		10.4	Kelzan 150#
9 00	45	8.8			Cromic Chloride 50#
11 00	48	8.9			

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

	From	To	Hrs.
Drilling	4 00	12 00	8

Driller George McKenzie

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. ..... YES ✓ NO .....

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 123.

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor: IMP OIL ENT. Type Rig Co Tools Nat 100 Month April Day 11 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8949	8965	16	7 13/16"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	94	—	24.	345.48	51.00 Jars 9-70

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	12	7	2¾	343.48	DRILLING STRING	DRILL COLLARS
	DATA					185M	35M.

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	DIA	9 00	3 45 pm	6¾	8965	15M	25	

Bit Serial No. 7613 Table R.P.M. 88

Jet or ~~Conventional~~ - DIA (Hycolog) 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	3 3/4	4	700	14"	57	5 3/4
No. 2			950	14"	46	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	52	8.9			4 Bbls Water
2 00	51				100# Caustic
3 30	50	8.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
8949.	8965	16	25	11	Hycolog.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Checked Kelly Cock.			
Coring.	12 00	3 45	3¾.
Pulling Breaking Core loose	3 45	4 00	¼
Trip out with core.	4 00		
Layed down jars		6 45	2¾.
Recovering Core	6 45	7 15	½.
Layed down Core Barrel	7 15	7 30	¼
Service Rig Check B.OPs	7 30	8 00	½.

Driller Clifford Kuppen

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8965	8980	15	8 5/8	LIME- DOL.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	91	—	23	682.01	Jars - 9.70

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	24	7	2¾		DRILLING STRING	DRILL COLLARS
	DATA					206 M	63M

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
89	~~HTC~~ W7R-2	1:15 pm				25-30M		

Bit Serial No. 86812 Table R.P.M. 60-65

Jet or Conventional - JET Nozzle Size 2-11 1-10

Kind at Ft. Deg. off

MUD RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1725	16"	71	5¾
			14		5½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	52	8.95	6.4	10.2	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
FILL PIPE @ 6500 FT	8	11 30	3½
PICK UP JARS - TRIP IN	11 30	1 15	1¾
REAMING 7 13/16 TO 8 5/8 8940 TO 8965	1 15	4	2¾
DRILLING			8

Driller M. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8980	9030	[illegible]	8 5/8	Lime-Dol

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	91	1	4	682.01	Jars 9.70

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	24	7	2¾	682.01	DRILLING STRING	DRILL COLLARS
	DATA					206M	63M

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
89	W7R2	1:15 pm				25-30		

Bit Serial No. 86812 Table R.P.M. 60-65

Jet or Conventional - Jet Nozzle Size 2-11 1-10

Kind at Ft. Deg. off

MUD RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1750	14	72.	5¾ 5½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	50	8.7			Water
7 00	48	8.7		9.1	Peltex 100#
10 00	46	8.9		10.1	Caustic 100#
					Wt at Flow Nipple 92

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 George McKenzie

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 122

I.O.F. Stony LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL. ENT. Type Rig Co Tools Mat 100 Month April Day 10 1966

1st Tour From: 12:00 Midnight To: 3:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
8867	8919	52	8 5/8"	LIME- DOL.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	90	1	23.	682.01	Jars- 9-70.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7"	2 3/16"	682.01	DRILLING STRING	DRILL COLLARS
DATA					204M	63M.

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
88	YH	3 39 PM				25M.		

Bit Serial No. E64083 Table R.P.M. 62.

Jet or ~~Conventional~~ - Nozzle Size 3 1/32.

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	8		1800	14"	71	5 3/4
No. 2		½		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	47	8.9	7.5	7.7	200# Caustic
2 00	47	8.9			20# Dowicide B.
3 30	46				2 Bbls Water
5 00	47		[redacted]	8.9	
7 00	48	8.8	6.6	9.9	

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 Clifford Kuipers

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

From	To	Hole Made	Hole Size	Formation
8919	8940	~~39~~ 21	8 5/8	LIME- DOL.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	90.	1	2	682.-01	JARS- 9-70

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	24	7	2 3/16	682.-01	DRILLING STRING	DRILL COLLARS
DATA					204 M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
88	YH	3 39 PM	11 45 PM	19 3/4	8940	25M	130	

Bit Serial No. EL4083 Table R.P.M. 6

Jet or Conventional - JET Nozzle Size 3 11/32

Kind TOTCO at 8935 Ft. 5° Deg. off

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

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 45	49	9.		9.8	
10 00	48	8.9			
11 45	48	8.9			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit No 88	Condition	T5	B4	T1	

	From	To	Hrs.
CHECKED KELLY COCK.	8	11 45	3 3/4
DRILLING	11 45	12 45	1
CIRCULATE TO CORE.	12 45	1	¼
TOTCO	1	4	3
TRIP OUT TO CORE @ 8940			8

Driller [signature]

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

From	To	Hole Made	Hole Size	Formation
8940	8949	9	7 7/16	Lime-Dol

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	93	2	11	3434 8	57.00 Jars 9-70

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	12	7	2¼	[redacted] 3.48	DRILLING STRING	DRILL COLLARS
DATA					185M	35M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
11	Hyc	9:00 P.M.				5-13		

Bit Serial No. Hydog 7655 Table R.P.M. 40-84

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
	3½	4½	900	14	57	5 3/4
				18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	55	8.7		9.1	Water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
8940	8949	9			

	From	To	Hrs.
Change stand alone OC.			
Remove & replace Garrison Kung	400	430	½
Trip out of Hole	430	500	½
Service Rig BOPS	500	545	¾
Service carr BBL, repair swivel	545		
Trip in to core, [redacted]		830	2¾
Clean to Bottom, Circulate Before	830		
coring.		900	½
Coring	900		
		1200	3

Driller George McKenzie

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 121

LOE STONY LSD ..... SEC ..... TWN ..... RGE ..... W ..... Contractor IMP OIL ENT. Type Rig Co Tools Mat 100 Month APRIL Day 9 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8810			8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	2	34.	654.95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	7"	2 3/4"	624.90	DRILLING STRING	DRILL COLLARS
DATA	1	6 7/8"	2 3/4"	30.05	202M.	59M

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
87	HT	12 30 PM	12.15	11¾	8810		87	

Bit Serial No. 743274 Table R.P.M.

Jet or ~~Conventional~~ - Nozzle Size 3 14/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	2		1200	14"	72	5 3/4
2				15"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					25# Dowicide B.
		8.9			
		90 in Tanks			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	Bowen Hydraulic Jars				
	Homco Bumper Sub.				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Jaring up on stuck Pipe:	12 00		
Bumping down on same.		5 30	5½.
Loose at 5 30 PM.	5 30		
Circulate ½ hour		6 00	½
Trip out	6 00	8 00	2.

Driller Clifford Kuypers

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

From	To	Hole Made	Hole Size	Formation
8810	8811	1	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	—	10	682.01	JARS 9-70

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7	2¾	680.01	DRILLING STRING	DRILL COLLARS
DATA					201M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
88	YH	3 30 PM				25M		

Bit Serial No. E64083 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3-11/32

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.
CONDITION	BIT # 87 - T5 - B4 - G1				

	From	To	Hrs.
☐ D. COLLAR			
TRIP OUT - LAY DOWN	7.	9 15	1¼
LAY DOWN TOOLS	9 15	10	¾
PICK UP 2 - 7" D. COLLARS	10	10 15	¼
CUT 67' OFF D. LINE.	10 15	11	¾
SERVICE RIG & CHECK B.O.P.	11.	11 30	½
TRIP IN - FILL PIPE	11 30	2 45	3¼
~~WORK PIPE TO BOTTOM~~	2 45	3 30	½
DRILLING	3 30	4	½

Driller W. Cogbill

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

From	To	Hole Made	Hole Size	Formation
8811	8867	56	8 5/8	Lime

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	2	14	682.01	JARS 9-70

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	24	7	2¾	680.01	DRILLING STRING	DRILL COLLARS
DATA					202M	63M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
88	YH	3 30 PM				24M		

Bit Serial No. E64083 Table R.P.M. 60-74-70

Jet or Conventional - JET Nozzle Size 3 11/32 -ES-

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1800	14	72	5 3/4
~~11 1/2~~		1400	16	48	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	80				Dowicide "B" 50 TCP 100 ppm
7 00	64	8.7	9.	7.3	Cuttic 200#
10 00	56	8.8			Water 4 Bbl

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

	From	To	Hrs.
DRILLING	4 00	5 45	1¾
Change Over Pump	5 45	6 00	¼
DRILLING	6 00	7 00	1
Work on Torque Indicator	7 00	7 15	¼
DRILLING	7 15	12 00	4¾
			18 HRS

Driller Jim Kerby

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 C.K. Emmett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 120

1-0E Stoney Mt LSD SEC TWN RGE W Contractor Imp Oil Ent. Type Rig Co Tools Nat 100 Month April Day 8 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8810			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	89	2	34	654.95	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7	2 3/4	624.90		
DATA	1	□ 8 9/16		30.05	202	59.

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	H7	12 30 PM						

Bit Serial No. 743274 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	1/2	1600	14"	71	5 3/4
No. 2				18"		5 3/4

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.
Pipe Stuck on Bottom			
Rig up Kelly To. circ.	12 00	12 30	1/2
Circ. Hole & mix acid in	12 30		
Cement Unit		1 30	1
Pumping acid 300 gals, 15%	1 30		
10 bbl water cushion Before			
5 bbl. " After			
Pumped To Bottom, moving			
acid around Bit @ 1/4 Bbl			
Every 10 min:		8 00	6 1/2

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
8810			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	89	2	34	654.95	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7	2 3/4	624.90		
DATA					202 m	54 m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
#7	H7	12 30 PM						

Bit Serial No. 743274 Table R.P.M.

Jet or Conventional - JET 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 500#
					IGEPAL 630 - 10 gals

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

	From	To	Hrs.
Moving acid 1/2 BB Every 10 min	8 00	9	1
Pumped out Acid	9 00	10 00	1
Mixed 1 Gepal - Gel mud	10 00		
Pumped around bit		12 00	2
Rig To Run Shot String	12 00	1 00	1
Run String shot	1	3 00	2
Lay down Tools	3 00	3 45	3/4
Trip Out	3 45	4 00	1/4

Driller Lee Moorhill

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

From	To	Hole Made	Hole Size	Formation
8810			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	89	2	34	654.95	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7	2 3/4	624.90		
DATA	1	□ 8 9/16		30.05	202	59

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
#7	H7	12 30 PM						

Bit Serial No. 743274 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
					5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
					(Bowen) Hydraulic Jars
					~~Taper~~ Bumper Sub. (Homco)

	From	To	Hrs.
Rotate std out slowly	4 00		
Trip out of hole		7 30	3 1/2
Service Rig check B.O.P.'s			
Put Kelly Hose + Gooseneck on			
Pick up Jars + Bumper Sub	7 30	8 15	3/4
Trip in Hole	8 15	10 30	2 1/4
Break Circ + Jar on Fish	10 30		
Pump Pres Built up. 900 PSI Let			
it Circ for 3/4 Hr. Then Shut off			
Pump and sit Jars		12 00	1 1/2

Driller Jim Keeby

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ✓ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 119.

I.O.E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP OIL ENT. Type Rig Co Tools Nat "100 Month APRIL Day 7 19 66

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 8810 · To · Hole Made · Hole Size 8 5/8" · Formation	From 8810 · To — · Hole Made — · Hole Size 8 5/8 · Formation	From 8810 · To · Hole Made · Hole Size 8 5/8 · Formation
DRILLING STRING	Size-D.P. 4½" · Stands 89 · Singles 2 · Kelly 34 · Drill. Collar Ft. 654.95 · Core Bbl. Ft.	Size-D.P. 4½ · Stands 89 · Singles 2 · Kelly 34 · Drill. Collar Ft. 654-95 · Core Bbl. Ft.	Size-D.P. · Stands · Singles · Kelly · Drill. Collar Ft. 654-95 · Core Bbl. Ft.
	DRILL COLLAR 22 · 7 · 2¾" · 624.90 · DRILLING STRING · DRILL COLLARS	DRILL COLLAR 22 · 7 · 2¾ · 624.90 · DRILLING STRING · DRILL COLLARS	DRILL COLLAR 22 · 7 · 2¾ · 624.90 · DRILLING STRING · DRILL COLLARS
	DATA 1 · 8 9/16" · 30.05 · 202M · 59M	DATA 1 · 8 9/16 · 30.05 · 202 M · 59 M	DATA
BIT RECORD	No. 87 · Type HT · Time On Bottom At 12 39 PM · Time Pulled At · Total Hours Run · Depth Pulled · Weight On Bit M Pounds · FOOTAGE Drilled · Reamed	No. 87 · Type HT · Time On Bottom At 12 30 PM · Time Pulled At · Total Hours Run · Depth Pulled · Weight On Bit M Pounds · FOOTAGE Drilled · Reamed	No. 87 · Type HT · Time On Bottom At 12 55 Pm · Time Pulled At · Total Hours Run · Depth Pulled · Weight On Bit M Pounds · FOOTAGE Drilled · Reamed
	Bit Serial No. 743274 · Table R.P.M. · Jet or Conventional - · Nozzle Size 3 11/32	Bit Serial No. 743274 · Table R.P.M. · Jet or Conventional - JET · Nozzle Size 3 11/32	Bit Serial No. 743274 · Table R.P.M. · Jet or Conventional - JET · Nozzle Size 3 11/32
SURVEYS	Kind · at · Ft. · Deg. off	Kind · at · Ft. · Deg. off	Kind · at · Ft. · Deg. off
MUSH PUMP RECORD No. 1 / No. 2	HOURS On Line · Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size	HOURS On Line · Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size 1500 · · 20 · 5¾	HOURS On Line · Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size · · · 14" · 70 · 5¾ · · · 18" · · 5¾
MUD RECORD	Time · Visc. · Wt. · W L · pH · ADDITIVES — POUNDS	Time · Visc. · Wt. · W L · pH · ADDITIVES — POUNDS 12 00 · 50 · 8.8 · · · Gel 800# 2 00 · 51 · 8.9 · · 9.8 · Polymer 100" Chromic Chlor. e33 Water 15± BBLs Plaster 50#	Time · Visc. · Wt. · W L · pH · ADDITIVES — POUNDS 4 30 · 53 · 8.9 · · · WATER PLASTER 100# CAUSTIC 50#
CORING	From · To · Ft. Cored · Ft. Rec'd. · Core No. · Type Bbl.	From · To · Ft. Cored · Ft. Rec'd. · Core No. · Type Bbl.	From · To · Ft. Cored · Ft. Rec'd. · Core No. · Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From · To · Hrs. Drill string stuck. 12 00 Moving oil ½ BBL. every ½ hr. · 8 00 · 8.	From · To · Hrs. PIPE STUCK ON BOTTOM MOVING OIL ½ BBL - EVERY ½ HR · 8 · 10 · 2 PUMPED OUT OIL - CIRC · 10 · 11 · 1 CLEAN UP CEMENT UNITS · 11 RIG TO PUMP ACID · 12 · 1 WAIT ON ACID · 12 · 4 · 4 8	From · To · Hrs. PIPE STUCK ON BOTTOM WAIT ON ACID CIRC hole · 4 00 · 6 30 · 2½ RIG up for Running of Free Point Tool. · 6 30 · 7 45 · 1¼ Running Free Point Tool. · 7 45 · 11 30 · 3¾ Tear out Free Point Tools · 11 30 Lay down same & Pick up Kelly for Next Hole · · 12 00 · ½ 8 hrs
	Driller Clifford Kippen	Driller Lew Coghill	Driller Tim Keeley

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-61-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 118.

I.O.E. STONY LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor IMP OIL ENT. Type Rig Co Tools Mat 200 Month April Day 6 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8809	8810	1	8 5/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	87	2	34	654.95'	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	7"	2 3/4"	624.90	DRILLING STRING	DRILL COLLARS
DATA	1	8 5/8"		3005	202M.	59M

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
87	H7	12 30 PM						

Bit Serial No. 743274 Table R.P.M.

Jet or ~~Conventional~~ - 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
4 Compound		2400	14"	43	5 3/4
			18"	37	5 3/4

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
12 30	48	8.8			
2 00	48				
7 30	48				

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilled one foot	12 00		
Pipe stuck on Bottom.			
Working stuck pipe			
Pumped down Gel plug			
to clean out Hole			
200# Gel ½ Gal Quick Vis.		4 00	8.
Plug did not bring up			
any cuttings hole clean			
Put On large Chokes			

Driller Clifford Kingsbury

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8810	—	—	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	2	34	654.95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	7	2 3/4	624.90	DRILLING STRING	DRILL COLLARS
DATA	1	8 5/8		30.05	202 M	59 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
87	H7	12 30 PM						

Bit Serial No. 743274 Table R.P.M.

Jet or Conventional - Nozzle Size 3 1/32

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
			14"		5 3/4
			18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
8 30	49	8.8			
10 00	49	8.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WORKED PIPE.			
PIPE STUCK ON BOTTOM			
SPOTED 30 GAL. DIESEL FUEL &			
45 GAL. IGEPAL CO. 630	8	145	
MOVING oil.			
1/2 BBL EVERY 1/2 HR.	145	4	
			8

Driller W. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8810			8 5/8	Lime

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	2	34	654.95'	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	7	2 3/4	624.90	DRILLING STRING	DRILL COLLARS
DATA	1	8 5/8		3005	202	59 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
87	H7	12 30 PM						

Bit Serial No. 743274 Table R.P.M.

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
			14"		5 3/4
			16"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
6 45	11 CUT				
7 15	11				
8 45	11				16 bbls Diesel @ 12 midnight.
9 45	11				
10 45	11				
11 45	11				

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MOVING oil 1/2 bbl EVERY 1/2 HR.	4 00	12 00	8 hrs.
Work Pipe.			
Service R.C.			

Driller Jim Kerby

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher A Donnell Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 117

I.O.E. I-50-67-30-135-15 STONY LSD SEC TWN RGE W Contractor I.O.E NAT #3 Type Rig NAT 100 Month MARCH (1966) Day 5 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8672	8723	51	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	87	2	27	654-95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7		624.90		
DATA	1	□ 8 9/16		30.05	200 M	59M

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
86	YH	1 45 PM	6 30 AM	16½	8723	45-47	131	

Bit Serial No. E64010 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 11 / 32

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
6½		1600	14	71	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	46	8.8			Water 12 BBLS
2 00	47	8.8			Plaster, Paris 50 lbs
4 00	49	8.8			Gel 400 lbs.
6 00	49	8.8			Cu. Clg. 17 lbs.
					Polymer 50 lbs.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	150 lbs. caustic soda				Non useable

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	6 30	6½
Pull out of Hole	6 30	8 00	1½
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
8723	8748	25.	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	89	—	33.	654.95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7"	2 3/4"	624.90		
DATA	1	□ 8 9/16		30.05	202M.	59M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
87	HT	12 30 PM				45 M.		

Bit Serial No. 743274 Table R.P.M. 60.

Jet or ~~Conventional~~ - Nozzle Size 3 1/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3 3/4	2	1600	14"	72	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1 00	51	8.8	5.	10.3	5 Bbls Water
2 30	50	8.9			50 lbs. Caustic soda
3 30	49	8.8			100 # Plaster

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 86	Condition	T 5	B 5	G	L.

	From	To	Hrs.
Checked Kelly Cock.	8 00	9 30	1½.
Trip out	9 30	10 00	½.
Service Rig Check B.O.Ps	10 00	10 30	½.
Trip in with D.C.	10 30	10 45	¼.
Adjust Brakes.	10 45	12 15	1½
Trip in with pipe	12 15	12 30	¼.
Work Bit to Bottom	12 30	4 00	3½
Drilling			

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
8748	8809	61	8 5/8	Lime - Dol

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	89	2	35	654-95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	7"	2 3/4	624.90		
DATA	1	□ 8 9/16		30-05	202	59 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
87	HT	12 30 PM				45-50M		

Bit Serial No. 743274 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3 11/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1550	11"	71	5 3/32
			18"		5 3/32

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	49	8.8			water 11 BBLS
6 30	48	8.8			Caustic 50 lbs
8 00	48	8.82	[redacted]	6	
10.00	47	8.7	6.3	9.8	

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

	From	To	Hrs.
DRILLING	4	11 30	7½
WORK TIGHT CONNECTION	11 30	12	½
			8

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 [redacted] Approved by .....

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

I.O.E STONY I-50-67-30-135-15 LSD SEC TWN RGE W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 116

Contractor I.O.E. NAT. #3 Type Rig NAT. 100 (1948) Month APRIL Day 4 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8592			8 3/4	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	87	/	32	624-80	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	22	7		624.90	DRILLING STRING / DRILL COLLARS
DATA					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

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

RUSH 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
					Ran in with Bumper Jars + Hydraulic Jars, Screwed into Fish. Jarred up on Fish with 80,000# Bump. Jarred down with 5" Stroke Fish FREE @ 2 30 PM

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Run In With Bumper Jars + Hydraulic Jars	12 00	1 15	1¼
Jar on Fish	1 15	2 30	1¼
Pull Out of Hole	2 30	6 45	4¼
Lay Down Fishing Tools	6 45	7 30	¾
Service Rig	7 30	8 00	½
			8

Driller Joe Berg

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

From	To	Hole Made	Hole Size	Formation
8592	8611	19	8 3/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	87	1	18	654.95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	22	7"	2 3/4"	624.90	DRILLING STRING / DRILL COLLARS
DATA	1	8 9/16"		30.05	200M / 54M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
86	YH	1 45 PM				40.45		

Bit Serial No. E64070 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 3 11/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3 3/4	2	1600	14"	72	5 3/4
			14"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7 00	47	8.8			2 Bbls Water
3 30	46	8.8			100# Plaster
					20# Fomicide B

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

	From	To	Hrs.
Unplugging Bottom D.C.	8 00		
Cleaning up Rig Floor.		9 00	1
Ran in Drill Collars	9 00	9 30	½
Cut 67' Drilling line	9 30	10 15	¾
Change values in Air Comp.	10 15	10 25	¼
Trip in Hole with Pipe	10 30	12 00	1½
Removed Corossion Rings	12 00	12 15	¼
Working Bit to Bottom	12 15	1 45	1⅜
Drilling	1 45	4 00	2¼

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
8611	8672	61	8 5/8	LIME-DOL

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	88	/	17	654-95	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	22	7"	2 3/4	624.90	DRILLING STRING / DRILL COLLARS
DATA	1	8 9/16		30.05	200 M / 59 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
86	YH	1 45 pm				45M		

Bit Serial No. E64070 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 3 11/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1825	111"	76	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	49	8.8			Gel 800#
1 00	52	8.8			Caustic 150#
8 00	49	8.8			Plaster 250#
10 00	50	8.95	6.3	10.2	Polymer 100#
					Chromic Clh. 33#

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

	From	To	Hrs.
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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ 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. 115

I.O.E. STONY — I-50-67-30-135-15 — LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor I.O.E. NAT. #3 — Type Rig NAT. 100 — Month APRIL — Day 3 — 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 8592 — To: — — Hole Made: — — Hole Size: 8 5/8 — Formation: —	From: 8592 — To: — — Hole Made: — — Hole Size: 8 5/8" — Formation: —	From: 8592 — To: — — Hole Made: — — Hole Size: 8 7/8 — Formation: —
DRILLING STRING	Size-D.P.: 4½ — Stands: — — Singles: — — Kelly: — — Drill. Collar Ft.: 682-35 — Core Bbl. Ft.: —	Size-D.P.: 4½ — Stands: 87 — Singles: — — Kelly: 32. — Drill. Collar Ft.: 682.35 — Core Bbl. Ft.: —	Size-D.P.: 4½ — Stands: 87 — Singles: — — Kelly: — — Drill. Collar Ft.: 624-90 — Core Bbl. Ft.: —
	DRILL COLLAR: Number 23 — OD 7 — ID 2¾ — Length 652.30 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING — DRILL COLLARS	DRILL COLLAR: Number 23 — OD 7" — ID 2¾" — Length 652.30 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING 202M — DRILL COLLARS 62M	DRILL COLLAR: Number 22 — OD 7 — ID — Length 624-90 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING — DRILL COLLARS
	DRILL DATA: Number 1 — OD 8⅝ — ID — Length 30.05	DRILL DATA: Number 1 — OD 8⅝ — ID — Length 30.05	DRILL DATA: 200M
BIT RECORD	No. 85 — Type H7 — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed	No. 85 — Type H7 — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed	No. 85 — Type H7 — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed
	Bit Serial No. 742613 — Table R.P.M. — Jet or Conventional - — Nozzle Size 11 11 11 32	Bit Serial No. 742613 — Table R.P.M. — Jet or Conventional - — Nozzle Size 2-11 1-10	Bit Serial No. 742613 — Table R.P.M. — Jet or Conventional - JET — Nozzle Size 2-11 1-10
SURVEYS	Kind — at — Ft. — Deg. off	Kind — at — Ft. — Deg. off	Kind — at — Ft. — Deg. off
MUD PUMP RECORD No. 1 / No. 2	HOURS: On Line — Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	HOURS: On Line — Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	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 12 00 — 46 — — — — — 400 lbs. GEL 2 00 — 49 — — — — — 50 lbs Polymer 17 lbs Cro-Clor 10 lbs. Plaster Paris 15 lbs. Caustic Soda	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS Ran Free point indicato - (Homco) on Shlumber Line, Established, Pipe Collons Free to top of Square D.C. - also ☐ D.C. Partially Free, Stuck Mainly @ Bit. Ran String Shot w/400 Gr. shot. Backed off top of ☐ D.C.	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS
CORING	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From — To — Hrs. WORK STUCK PIPE — 12 00 — 7 00 — 7 MOVING OIL PUMP OIL TO SURFACE — 7 00 — 8 00 — 1 8	From — To — Hrs. Pump oil to surface — 8 00 — 9 00 — 1 Rigging up and running free-point tool and string shot — 9 00 — 3 30 — 6½ Laying down Tools — 3 30 — 4 00 — ½	From — To — Hrs. LAY DOWN SHOOTING TOOLS — 4 — 4 15 — ¼ TRIP OUT — 4 15 — 8 15 — 4 SERVICE RIG - CHECK B.O.P — 8 15 — 8 45 — ½ PICK UP & MAKE UP FISHING TOOLS - PUT ON KELLY HOSE & GOOSE NECK — 8 45 — 10 45 — 2 TRIP IN — 10 45 — 12 — 1¼ 8
	Driller: Hockey	Driller: Clifford Kuggen	Driller: W Gayfield

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. ____ — DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ — YES ✓ NO ____

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

Form 34-402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 114

I.O.E. STONY I-50-67-30-135-15 LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT. #3 Type Rig NAT. 100 Month APRIL Day 2 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8592			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½				682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR	23	7	2 3/4	652.30	DRILLING STRING / DRILL COLLARS
DATA	1	□ 8 9/16		30.05	

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
85	H7							

Bit Serial No. 742613 Table R.P.M.

Jet or Conventional - JET Nozzle Size 11 11 10 32

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

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

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	41	9.0			

Spotted 35 BBls Diesel fuel + 35 gals Tigmudco around B.C.S & Bit, Oil Spotted at 7am. Apr. 2/66. Spotted w/cementing unit for

CORING

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

DETAIL OF OPERATIONS AND REMARKS

Spotting & Oil & displacing same. Mixed 1 Bbl. oil every 1 hr.

	From	To	Hrs.
WORKING STUCK PIPE	12:00	5:00	5
SPOT OIL	5:00	8:00	3
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
8592			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	87	—	32	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR	23	7"	2 3/4"	652.30	DRILLING STRING / DRILL COLLARS
DATA	1	□ 8 9/16"		30.05	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
85	H7							

Bit Serial No. 742613 Table R.P.M.

Jet or Conventional - Nozzle Size 2-11 1-10

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 stuck Pipe	4	8	8
Moving oil			

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
8592	—	—	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	87	—	32	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR	23	7"	2 3/4		DRILLING STRING: 2.00 M / DRILL COLLARS: 62 M
DATA	1	□ 8 9/16			

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
85	H7							

Bit Serial No. 742613 Table R.P.M.

Jet or Conventional - JET Nozzle Size 2-11-32 1-10

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
	40	9.0			Gel 400 lbs
	46	9.0			Polymer 5 lbs
					Chromic Chl. 17 lbs

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

	From	To	Hrs.
WORKING STUCK PIPE	4	12	8
MOVEING OIL			

Driller McLaughlin

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.

I.O.E. I-50-67-30-135-15

STONY LSD..... SEC..... TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor I.O.E. NAT. #3 Type Rig NAT. 100 Month APRIL Day 1 19 66

DAILY DRILLING REPORT No. 113

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8485	8541	56	8 5/8	LIME - DOL.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	86	1	22	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2 3/4	652-30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8 5/8		30-05	200 M	62 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
84	YH	12 45 PM				45-50		

Bit Serial No. 14499 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 11 11 10 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
7 1/4		1900	14	70	

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
300	41	9.0			WATER 15 BBLS
500	41	9.0			50 lbs caustic soda.
700	41	9.0			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
FILL PIPE	12 00	12 15	1/4
RUN IN HOLE	12 15	12 45	1/2
DRILLING	12 45	8 00	7 1/4
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
8541	8592	51	8 5/8	Lime Dolm.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	86	2	2	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8 5/8		30.05	202M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
84	YH	12 45 AM	2 45 PM	14	8592	50M	107	

Bit Serial No. 14499 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 2-11 1-10

Kind Totco at 8586 Ft. 4 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6 3/4	1.	1900	14"	70	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	40	9.	7.	9.9	10 Bbls Water
10 00	40	9.			50# Plaster
12 00	39	9.			50# Caustic
2 00	39	9.			10# Preservative

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

	From	To	Hrs.
Drilling	8 00	2 45	6 3/4
Totco at 8586'	2 45	3 00	1/4
Trip out	3 00	4 00	1

Driller Clifford Rippon

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

From	To	Hole Made	Hole Size	Formation
8592	—	—	8 3/4 5/8	LIME + DOL.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	87	—	32	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2 3/4	652-30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8 5/8		30-05	200M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
85	H-7							

Bit Serial No. 742673 Table R.P.M.

Jet or Conventional - JET Nozzle Size 1-10 2-11-32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		2100	14"	56	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1100	40	9.0			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Condition Bit #84 T6-B4-G1					

	From	To	Hrs.
TRIP OUT	4	6	2
SERVICE RIG & CHECK B.OP	6	6 30	1/2
RUN IN D. COLLARS	6 30	7	1/2
CUT 67' OFF D. LINE	7	7 45	3/4
TRIP IN	7 45	9 45	2
WORKING STUCK PIPE	9 45	12	2 1/4
			8

Driller W. Eggbill

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.D. Lewis Approved by .....

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

I.O.E. I-50-67-30-135-15
STOAL/ LSD SEC TWN RGE W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 112

Contractor I.O.E. NAT. #3 Type Rig NAT. 100 Month MARCH Day 31 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8382	8416	34	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	85	/	25	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□8⅝		30.05	198M	62M

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
83	YH	3 15 AM				45-50		

Bit Serial No. E64069 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 11 11 10 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	5		1900	14	71	5 3/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	39	8.9			Water 12 bbls.
700	41	9.0			100 lbs. Poly mell
					800 lbs. Gel
					33 lbs. Cal-Clor.

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
SERVICE RIG - 13.0 lbs	12 00	12 30	½
RUN IN HOLE TO 6000 FT	12 30	2 00	1 ½
FILL PIPE	2 00	2 15	¼
RUN IN HOLE	2 15	3 00	¾
BREAK CIRCULATION	3 00	3 15	¼
DRILLING	3 15	8 00	4 ¾
			8

Driller Hockers

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

From	To	Hole Made	Hole Size	Formation
8416	8471	55	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	85	2	31	682.35"	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾"	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□8⅝		30.05	200M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
83	YH	3 15 AM				50M.		

Bit Serial No. E64069 Table R.P.M. 60

Jet or Conventional - Nozzle Size 2-11 1-10

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1900	14"	70	5 3/4
			14"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	41	9.	6.8	10.	10 Bbls Water
10 00	40	9.			100 # Plaster of paris
11 30	40	9.			
2 00	40	9.			
330	41	9			

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

	From	To	Hrs.
Drilling	8 00	4 00	8.

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
8471	8485	14	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	85	2	17	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□8⅝		30.05	2.00 M	62 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
83	YH	3 15 AM	5 45 PM	14½	8485	50M	103	
84	YH							

Bit Serial No. E64069 - 14499 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 2-11-32 1-10

Kind TOTCO at 8480 Ft. 3¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½	5½	1425	14	70	5 3/4
			16		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 45	41	9.			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Conductor	R.T.	83	T6-B4-G1		

	From	To	Hrs.
CHECKED KELLY COCK			
DRILLING	4	5 45	1¾
CIRC. & TOTCO	5 45	6 15	½
TRIP OUT	6 15	9 15	3
SERVICE & CHECK B.O.P	9 15	9 45	½
TRIP IN	9 45	12	2¼
			8

Driller Lee 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 .....

Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I.O.E. STONY 67-30-135-15 I-50 LSD SEC TWN RGE W

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 111

Contractor I.O.E. NAT. #3 Type Rig NAT-100 Month MARCH Day 30 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8277	8294	17	8 5/8	DOL-LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	83	2	23	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7	2¾	652.30		
DATA	1	8½		30.05	193M	62M

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
82	YH	0600				45-50		

Bit Serial No. E5408H Table R.P.M. 40-60

Jet or Conventional - JET Nozzle Size 11 11 10 32

SURVEYS

Kind TOTCO at 8275 Ft. 3½ Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	2¼	5¾	1400	14	72	5¾
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
700	39	9.7			2BBLS WATER

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT OF HOLE	12 00	2 30	2½
SERVICE RIG - B.O.P.	2 30	3 00	½
RUN IN HOLE TO 6000	3 00	4 30	1½
FILL PIPE	4 30	5 00	½
RUN IN HOLE	5 00	5 45	¾
BREAK CIRCULATION	5 45	6 00	¼
DRILLING	6 00	8 00	2
			8

Driller Hockert

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8294	8355	61	8 5/8"	Dol. Lime

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	84	1	24	652.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7"	2¾"	652.30		
DATA	1	8½		30.05	200M	62M

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
82	YH	6 00 Am				50M		

Bit Serial No. E6408H. Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 2 - 11 1 - 10

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1800	14	71	5¾
			18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	39	8.8	6.9	9.9	20 # Bbls Water
1000	39	8.9			50 # Plaster of paris
1300	39				50 # Caustic
200	39	8.9			
330	38	8.9			

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 Clifford Hagen

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8355	8382	27	8 5/8	Dol. - LIME.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	84	2	28	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7"	2¾	652.30		
DATA	1	8½		30-05	200M	62M

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
82	YH	6 AM	838 PM	14½	8382	50M	105	

Bit Serial No. E6408A Table R.P.M. 60

Jet or ~~Conventional~~ - JET Nozzle Size 2-11 1-10-32

Kind TOTCO at 8380 Ft. 3½ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½		1900	14"	71	5¾
			18"		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	38	8.9		10.2	Water
100	38	8.9	8.9		

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT # 82 T7-B4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To.	Hrs.
DRILLING	4	8 30	4½
CIRC & TOTCO	8 30	9	½
TRIP OUT	9	12	3
			8

Driller McGregor

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

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 110

LOE-STOMY LSD SEC TWN RGE W. Contractor LOE ENTERPR. #3 Type Rig NAT. 100 Month MARCH Day 29 1966

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

From	To	Hole Made	Hole Size	Formation
8168	8178	10	8 5/8	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	82	1	18	682.38	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 9/16		30.05	196M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
80	YHWG	9:30 AM	1:30	16	8178	50	100	4
81	YH							

Bit Serial No. EN3144 - E1452 Table R.P.M. 60

Jet [illegible] - Nozzle Size 11-11-10 32

Kind TOTCO at 8173 Ft. 3° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1800	14	70	5¾
			18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	39	9.0			Water

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

From	To	Hole Made	Hole Size	Formation
8178	8228	50	8 5/8	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	83	—	29	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 9/16		30.05	197M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
81	YH	9½ AM				50		

Bit Serial No. E1H502 Table R.P.M. 60-62

Jet or Conventional - JET Nozzle Size 11 11 10 32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6	1600	850	14	71	5 3/4
1		#700	18	53	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1100	39	8.7	6.8	10.1	Water 13 bbls.
100	40	8.8			25 lbs Caustic Soda
30	40	8.8			1 GAL D.D.

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

From	To	Hole Made	Hole Size	Formation
8228	8277	49	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	83	1	10	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾"	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 9/16		30.05	198M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
81	YH	4:35 AM	11:38 PM	13¾	8277	50M	99	

Bit Serial No. E1H502 Table R.P.M. 62

Jet or [illegible] - Nozzle Size 12 12 12 32

Kind Totco at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		1750	14"	71	5 3/4
			18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	39	8.8			15 Bbls Water
6:00	39				
8:00	39	8.9			
9:30	39				
11:00	39	8.9			

CORING

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

CONDITION BIT #80 T7-B8-G1

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	1:30	1½
TOTCO @ 8173	1:30	1:45	¼
TRIP OUT	1:45	4:45	3
CUT 67' DRLG LINE	4:45	5:45	1
SERVICE RIG, CHECK BOPS	5:45	6:15	½
TRIP IN	6:15	8:00	1¾
			8

Driller Kornemeier

	From	To	Hrs.
FILL PIPE	8:00	8:30	½
RUN IN HOLE	8:30	9:15	¾
BREAK CIRCULATION-ROTATE TO BOTTOM	9:15	9:30	¼
DRILLING	9:30	4:00	6½
			8

Driller Hoekzema

	From	To	Hrs.
Drilling	4:00	4:30	½
Thawing Air Lines	4:30	4:45	¼
Drilling	4:45	11:30	6¾
Totco at 8275	11:30	11:45	¼
Trip out	11:45	12:00	¼

Driller Clifford Kippen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED #3

DAILY DRILLING REPORT No. 141

1 OE STONY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. ENTERPRISES Type Rig NAT 100 Month MARCH Day 28 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
8078			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81		5	682.35	REAMER 5.55

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	23	7"	2¾	652.30		
DATA	14	8 7/16		30.05	194	62 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
80	YHWG							

Bit Serial No. EN3144 Table R.P.M.

Jet ~~or Conventional~~ - Nozzle Size 3 7/32

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.
8074	8076	4	2½	10	HYCOLOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WORKING CORE BBL.	12 00	12 30	½
TRIP OUT WITH CORE BBL	12 30	3 30	3
CHECK, SERVICE + SET	3 30		
BACK CORE BBL.		5 30	2
RUN IN WITH BIT	5 30	7 30	2
BREAK CIRCULATION	7 30	8 00	½
			8

Driller Konnemann

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

From	To	Hole Made	Hole Size	Formation
8078	8114	36	8 5/8	DOLOMITE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81	2	27	682.35	REAMER 5.55

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	23	7"	2¾	652.30		
DATA	1	8 7/16		30.05	195M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
80	YHWG	9 30 AM				50M		

Bit Serial No. EN3144 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 11 11 32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1700	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1000	40	8.4			Water 16 BBLS
1200	40	8.8			20 lbs Dowcide B
200	40	8.8			50 lbs. Plaster PARIS
					100 lbs CAUSTIC Soda

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	6 BBLS CAUSTIC soda not useable				

	From	To	Hrs.
REAM CORE HOLE	8 00	9 00	1
WORK BROKEN FORMATION ON TOP OF BIT	9 00	9 30	½
DRILLING	9 30	4 00	6½
			8

Driller Hoekzema

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

From	To	Hole Made	Hole Size	Formation
8114	8168	54.	8 5/8"	Dolomite Lime CHALK.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	82	—	3	682.35	Reamer 5.55

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	23	7"	2¾	652.30		
DATA	1	8 7/16		30.05	196M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
80	YHWG	9 30 PM				50M		

Bit Serial No. EN3144 Table R.P.M. 60.63

Jet or ~~Conventional~~ - Nozzle Size 3 9/32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1750	14"	71	5 3/4
			18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	40	8.8	7.2	10.4	15 Bbls Water
600	39	8.8			
800	39				
930	39	8.8			
1100	39	9.			

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

	From	To	Hrs.
Drilling	4 00	12 00	8.

Driller Clifford Hagen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED #3

DAILY DRILLING REPORT No. 108

10E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month MARCH Day 27. 1966

DEPTH

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

From	To	Hole Made	Hole Size	Formation
7995	8049	54	5 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	81	—	24	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2 3/4	65230	DRILLING STRING	DRILL COLLARS
DATA	10	8 9/16		30.05	174	62M

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
79	YH	1ES AM				50M		

Bit Serial No. EG 4078 Table R.P.M. 60

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

SURVEYS

PUSH 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	7	1	1700	14	72	5 3/4
No. 2				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 AM	40	8.7			Water 8 BBL
4	40	8.7+			Caustic 50
6 AM	38	8.7			Plaster of Paris 50

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12 00	12 45	3/4
BREAK CIRCULATIN,	12 45		
CLEAN TO BOTTOM		1 15	1/2
DRILLING	1 15	8 00	6 3/4
			8

Driller Kormoran

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

From	To	Hole Made	Hole Size	Formation
8049	8074	25	8 5/8	Dol.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	81	1	29	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2 3/4	65230	DRILLING STRING	DRILL COLLARS
DATA	1				194	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
79	YH	1 AM	12 N	10 3/4	8074	50	79	

Bit Serial No. EGH078 Table R.P.M.

Jet or Conventional - JET Nozzle Size 32

Kind TOTCO at 8070 Ft. 2 7/8 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1700	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	38	8.8			Water 9 bbls
10 00	37	8.8		10	GEL 800 lbs.
12 00	40	8.8			Polymeir 100 lbs
					Ca-Clar 33 lbs.
					CAUSTIC Soda 50 lbs.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION T T T BH GI					

	From	To	Hrs.
DRILLING	8 00	12 15	4 1/4
CIRCULATE TO CORE	12 15	12 45	1/2
SURVEY	12 45	1 00	1/4
PULL OUT OF HOLE	1 00	4 00	3
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
8074	8078	4	7 13/16"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	84	1	26	344.02	Co + Jars 6403

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	12	7"	2 3/4"	344.02	DRILLING STRING	DRILL COLLARS
DATA					173M	32M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
4	DIA	8 35 PM	12 M.	2 3/4	8078	13M	4	

Bit Serial No. 0163R Table R.P.M. 88

Jet ~~or Conventional~~ - DIA. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4	4	775	14"	52	5 3/4
					5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9.30	38	8.8	6.9	9.8	3 Bbls Water
11 30	40	8.8			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
8074	8078	4	Not out.	10	Hycolog.

	From	To	Hrs.
Service Rig Check B.OPs.	4 00	4 30	1/2.
Pick up Core Barrel, Jars.	4 30		
Service Core Barrel.		5 30	1
Trip in to Core.	5 30	7 30	2
Measure 4 stands DC. 4 stand D.P.	7 30	7 45	1/4
Circulating and cleaning	7 45		
to Bottom.		8 30	3/4.
Coring	8 30	11 15	2 3/4.
Working stuck Core Barrel.	11 15	12 00	3/4

Driller Clifford Kippam

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:

CLASSES OF TIME BREAKDOWN
TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
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. Dennett Approved by .....

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

10E STONY LSD. SEC. 1-50-67-30-135-15 TWN. RGE. W.

IMPERIAL OIL LIMITED #3

Contractor 10E ENTERPR. Type Rig NAT. 100

DAILY DRILLING REPORT No. 107

Month MARCH Day 26. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7885	7909	21	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	79	1	11	682.35	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	7"	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1 □	8 9/16		30.05	192 M	62 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
78	YH	5 00 PM				45M		

Bit Serial No. EG 4074 Table R.P.M. 3-11

Jet ~~or Conventional~~ - Nozzle Size

SURVEYS

Kind TOTCO at 7885 Ft. 1½° Deg. off

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1700	14	72	5 3/4
No. 2				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6 00	38	8.7			
					Plaster of Paris 50 lbs

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT # 77					
T 5 - B 5 - G 1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	12 00	1 30	1½
SERVICE RIG, CHECK BOP.S	1 30	2 00	½
TRIP IN	2 00	4 30	2½
BREAK CIRCULATION, CLEAN	4 30		
12' TO BOTTOM		5 00	½
DRILLING	5 00	8 00	3
			8

Driller Rasmussen

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

From	To	Hole Made	Hole Size	Formation
7909	7970	61	8 5/8	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	80	/	12	682.35	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	7"	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8½		30.05	192 M	62 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
78	YH	5 00 PM				50M		

Bit Serial No. E-6407H Table R.P.M. 60-66

Jet or Conventional - JET Nozzle Size 11 11 11 32

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		1700	14"	72	5 3/4
				18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	37	8.7			Water 15 BBLS.
10 00	36	8.7			Polymer 10 lbs.
12 00	39	8.7			Ca-Cloride 33 lbs.
2 00	39	8.7			Plaster-Paris 50 lbs
					Caustic Soda 50 lbs

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

	From	To	Hrs.
DRILLING	8 00	4 00	8

Driller Hackney

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

From	To	Hole Made	Hole Size	Formation
7970	7995	25	8 5/8"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	80	1	17	682.35	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	23	7"	2¾"	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8½		30.5	193M	62M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
78	YH	5 00 PM.	7 00 PM	14	7995	50M.	10'	
79	YH							

Bit Serial No. E-6407H E-64078. Table R.P.M.

Jet or ~~Conventional~~ - Nozzle Size 3 1/32

Kind Totco at 7990 Ft. 2 2/3° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3	4 3/4	1700	14"	72	5 3/4
				18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	40	8.7	7.9	9.7	5 Bbls Water
6 00	40	8.7			GEL. 800 lbs.
					TCP 350 ppm.
					C_2^{++} 40 ppm.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 78 Condition T-6 B5 G1.					

	From	To	Hrs.
Checked Kelly Cock.			
Drilling	4 00	7 00	3.
Totco at 7990'	7 00	7 15	¼.
Trip out	7 15	10 15	3.
Service Rig Check B.O.Ps	10 15	10 45	½
Trip in	10 45	12 00	1¼.
Installed 6 new drill pipe protector rubbers			

Driller Clifford Kippen

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES / NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 106

10E. STONY LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor ____ Type Rig ____ Month MARCH Day 25 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7774	7788	14	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	—	10	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8½		30.05	190 M	62 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
76	M4L	2:15 PM	1:45 AM	11½	7788	50M	97	
77	YH							

Bit Serial No. 74392-E64080 Table R.P.M. 62

Jet ~~or Conventional~~ - Nozzle Size 3-11/32

SURVEYS

Kind TOTCO at 7778 Ft. 2 1/8 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			14	72	5 3/4
No. 2				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	37	8.7			Water

CORING

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

CONDIT. BIT # 76 BTG-B7-G1

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	1:45	1 3/4
TOTCO + CIRCULATE	1:45	2:00	1/4
SERVICE RIG CHECK BOPS	2:00	2:14	1/4
PULL OUT	2:14	5:14	3
RUN IN DRILL COLLARS	5:14	5:34	1/2
SLIP & CUT 67' LINE	5:34	6:34	1
RUN IN	6:34	8:00	1 1/4
			8

Driller Kornemann

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7788	7841	53	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	2	18	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8½		30.05	191 M	62M

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
77	YH	9:30 AM				45-50		

Bit Serial No. E64080 Table R.P.M. 60-63

Jet or Conventional - JET Nozzle Size 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	4		1600	14	72	5 3/4
No. 2	3		1500	18	59	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	38	8.3			Water 9 bbls.
12:00	39	8.6			2 GAL D. D
2:00	39	8.7			100 lbs Polymer
					800 lbs GEL.
					33 lbs. Chloride

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN HOLE	8:20	9:00	1
CLEAN 25 FT TO BOTTOM	9:00	9:30	1/2
DRILLING	9:30	11:30	2
CHECK UNION ON KELLY HOSE	11:30	11:45	1/4
DRILLING	11:45	4:00	4 1/4
			8

Driller Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7841	7885	44	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	79	—	2.	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8½		30.05	192M.	62M.

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
77	YH	9:30 AM	10:00 PM	12¼	7888	50M	100	

Bit Serial No. E64080 Table R.P.M. 62-88

Jet or ~~Conventional~~ - Nozzle Size 3 1/32

SURVEYS

Kind Totco at 7885 Ft. 1/2° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6	1 3/4	1600	14"	72	5 3/4
				15"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	38	8.7	7.	9.7	13 Bbls Water
6:00	36	8.6			50# Caustic
8:00	37	8.7			20# Fungicide B
9:00	38	8.8	7.7	9.9	50# Plaster of paris
Ca^{++} 37 ppm. TCO 350 ppm)					

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4:00	10:00	6.
Totco at 7885	10:00	10:15	1/4.
Trip out	10:15	12:00	1 3/4.

Driller Clifford Kippen

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 105

10E-STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor ..... Type Rig ..... Month MARCH Day 24 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7639	7691	52	8 5/8	LIME

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	—	17	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7"	2¾	652.30		
DATA	1	□8½		30.05	190 M	62 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
75	H42	7:30 PM	5:15 PM	9¾	7691	40-45	96	9'

Bit Serial No. 754499 Table R.P.M. 62

Jet ~~Conventional~~ - Nozzle Size 3 11/32

SURVEYS

Kind TOTCO at 7680 Ft. 2¼° Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	5¼	2¾	1750	14	72	5 3/4
2				18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	36	8.7			
2:00	36	8.7			
4:00	36	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	5:15	5 1/4
CIRCULATE & TOTCO	5:15	5:45	½
TRIP OUT	5:45	8:00	2¼
			8

Driller Kornemann

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

From	To	Hole Made	Hole Size	Formation
7691	7706	15	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	—	2	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7"	2¾	652.35		
DATA	1	□8½		30.05	190M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
76	MHL	2				30-40		

Bit Serial No. 743392 Table R.P.M. 62

Jet ~~Conventional~~ - Nozzle Size 32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	6	1600	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
230	38	8.7	8.2		Water 3 bbls.
	350 RPM				

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT	CONDITION	7/8	BT 6	BT	GI

	From	To	Hrs.
REPAIR LOW CHAIN	8:00	10:00	2
PULL OUT OF HOLE	10:00	11:00	1
SERVICE RIG - B.O.P.	11:00	11:30	½
RUN IN HOLE.	11:30	2:00	2½
WORK PLUGGED BIT	2:00	2:15	¼
DRILLING	2:15	11:00	1 3/4
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
7706	7774	68	8¾	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	78	—	24	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7"	2¾"	652.35		
DATA	1	□8½		30.05	192M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
76	MHL	2:15 PM				50M		

Bit Serial No. 743392 Table R.P.M. 62.

Jet or ~~Conventional~~ - Nozzle Size 3 11/32.

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1600	14"	72	5 3/4
	3		18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5:00	35	8.6	8.2	10.	14 bbls Water
7:00	35	8.6			800# Aquagel
9:00	34	8.6			100# Kelzan
11:00	37	8.6			33# Chrom-chloride
Desa.		.350 PPM			50# Caustic

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

	From	To	Hrs.
Drilling	4:00	12:00	8.

Driller Clifford Hagen

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 ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

10E. STONY LSD..... SEC..... TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor IMP. OIL ENTERPR. Type Rig NAT 100 #3

DAILY DRILLING REPORT No. 104

Month MARCH Day 23 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7595			8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	77	1	35	508.30	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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.
PULL OUT	12 00	12 30	1/2
DRESS OVERSHOT	12 30	1 30	1
RUN IN WITH OVERSHOT	1 30	4 00	2 1/2
WORK OVERSHOT	4 00	5 00	1
PULL OUT WITH FISH	5 00	8 00	3
Wet pull			8

Driller F. Kammerman

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7595				

DRILLING STRING

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

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL 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
75	M4L							

Bit Serial No. 754499 Table R.P.M.

Jet ~~Conventional~~ - Nozzle Size 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
		8		14		5 3/4

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.
Wet pull bit plugged			
PULL OUT WITH FISH	8 00	10 30	2 1/2
LAY DOWN FISH & TOOLS	10 30	12 30	2
CLEAN DRLG TOOLS AFTER	12 30		
PULLING WET STRING		1 30	1
FISH MOUSE HOLE OUT OF CELLAR	1 30	3 30	2
RUN IN HOLE	3 30	4 00	1/2
			8

Driller Hacker

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7595	7639	44	9 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	76	1	7	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2 3/4"	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 5/8"		30.05	189M.	62M

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
75	M4L	7 30 PM				40-50		

Bit Serial No. 754499 Table R.P.M. 60-65

Jet or ~~Conventional~~ - 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
	5	3	1650	14"	73	5 3/4
				18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7 30	45	8.6			
9 00	36	8.7	7.2	10.1	
11 00	36	8.7			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Run in Drill Collars and 11 singles, Layed down 11 singles	4 00		
Picked up 1 Drill Collar.		5 30	1 1/2
Trip in with Pipe	5 30	7 00	1 1/2.
Reamed out 9' Core hole	7 00	7 30	1/2.
Drilling	7 30	12 00	4 1/2.

Driller Clifford Kuzjan

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 103

L.O.E. STONEY LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor IMP. OIL ENTERPRISES #3 Type Rig NAT 100 Month MARCH Day 22 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7595	—	—	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	82	2	27	29.72	SUB 5.00

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	7	2 3/4		140M	

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
75	M4L							

Bit Serial No. 754499 Table R.P.M.

Jet or Conventional - JET Nozzle Size 3 - 1/2

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		375	14	54	5 1/4
No. 2		3		18		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1 00	37	8.7			Caustic 50#
4 00	38	8.7		10.5	Dowicide "B" 20#
6 00	37	8.7			Water 6 BBLS.
7 20	37	8.7	8.0	10.5	[redacted]
		300 PPM			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRCULATE	12		
WAIT ON FISHING TOOLS		8	8
PULLED UP INTO CASING & CIRCULATE			

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
7595			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	82	2	27	29.72	SUB 5 FT

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
	1	7	2 3/4		142 M	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
75	M4L				7595			

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
		350	14	52	5 3/4
			18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	37	8.5		10.1	Water [redacted]
10 00	37	8.6			Caustic 50#
					TCP 350 PPM

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

	From	To	Hrs.
WAIT FOR OVERSHOT	8 00	11 15	3 1/4
RUN IN 8 STDS.	11 15	11 30	1/4
CIRCULATE ON TOP OF FISH	11 30	12 30	1
SERVICE RIG CHECK BOP-S			
PULL OUT	12 30	3 30	3
LAY DOWN BOT. DC.	3 30	4 00	1/2
			8

Driller Kosmerchuk

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

From	To	Hole Made	Hole Size	Formation
7595			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	77	1/3	35	508.30	

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.
MAKE UP FISHING TOOLS	4 00	5 00	1
RUN IN HOLE WITH OVERSHOT	5 00	8 00	3
CIRCULATE - WORK OVER FISH	8 00	8 30	1/2
PULL OUT OF HOLE	8 30	12 00	3 1/2
			8

Driller Hockley

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 [redacted] Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 102

L.O.E. STRNEY LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor Imp. Oil Enterprises #3 Type Rig NAT 100 Month MARCH Day 21 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7587	7595	8	8 9/16	LIME-SHALE

DRILLING STRING

Size D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	—	31	458-58	58-10

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	16	7"	2¾			
DATA					174M	45M

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	HYCOLOG	3 AM						

Bit Serial No. 8103 Table R.P.M. 60-88

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	5 ¼		725	14"	60.	5¾
No. 2				18		5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5³⁰	36	8.7			6 ½ BBL. water
2³⁰	36	8.7			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
7587	7596	9	5	9	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECKED B.O.P	12	12³⁰	½
PICK up CORE BBL - BOTTOM D.C	12³⁰	2³⁰	2
TRIP IN	2³⁰	3	½
CIRCULATE BEFORE CORING	3	~~8~~	5
CORING			8

Driller ____

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

From	To	Hole Made	Hole Size	Formation
7595	7596	1	8 9/16	

Size D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	—	30	458.58	58.10

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	16	7"	2¾			
DATA					174	45

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. 8103 Table R.P.M. 88

Jet or Conventional - DIA Nozzle Size

Kind at Ft. Deg. off

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

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

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

	From	To	Hrs.
CORING	8⁰⁰	8³⁰	½
PULL OUT WITH CORE	8³⁰		
LOST OUTER CORE BBL. IN HOLE.		11³⁰	3
RECOVER CORE, BREAK UP INNER CORE BBL.			
SERVICE RIG CHECK BOP'S			½
WAIT ON OVERSHOT			4
			8

Driller Kommerman

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

From	To	Hole Made	Hole Size	Formation
7595				

Size D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	82	2	2T	29-72	58B - 5.00

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	1	7"	2¾	29-72		
DATA					140M	

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

Bit Serial No. 75HH99 Table R.P.M.

Jet ~~or Conventional~~ - Nozzle Size 7-7-7

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per. Min.	Liner Size
		750	14	60	5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					800 lbs. GEL
					33 lbs. Caustic Soda
					100 lbs. Polymer

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

	From	To	Hrs.
WAIT FOR OVERSHOT	4⁰⁰	12⁰⁰	8
CUT DRLG. LINE.			
PICK UP SINGLES			
RUN IN HOLE - FEEL FOR FISH			
CONDITION MUD			
TOP OF FISH @ 7544			

Driller Hankins

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 ____ Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 107

I.O.E. STONEY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Imp Oil Enterprises #3 Type Rig NAT 100 Month MARCH Day 20 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7464	7472	8	8 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	74	2	26	682.35	STAB 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8½		30.05	182 M	62 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
74	M4L	7AM				40M		

Bit Serial No. 743389 Table R.P.M. 60

Jet or Conventional - JET Nozzle Size 12-12-11 32

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

CHANGE STAND ON D. COLLAR.

	From	To	Hrs.
~~TRIP~~ O			
TRIP OUT	12	12 30	½
RECOVER & BOX CORE	12 30	1 30	1
SERVICE & REPAIR CORE BBL	1 30	2 30	1
SERVICE RIG & B.O.P	2 30	2 45	¼
THAW D. COLLAR & STABILIZER	2 45	3	¼
TRIP IN	3	6	3
PUT ON RUBBERS			
REAM. CORE HOLE	6	7	1
DRILLING	7	8	1

Driller ..... M Cashill

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

From	To	Hole Made	Hole Size	Formation
7472	7559	87	8 5/8	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	75	1	DOWN	682.35	STAB. 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8½"		30.05	184	62 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
74	M4L	7AM				40-45 ~~40-45~~		

Bit Serial No. 743389 Table R.P.M. 58-88

Jet ~~Conventional~~ Nozzle Size 12-12-11 32

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1400-1600	14	73-72	5 5/8
2		1200	18	52	5 5/8

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.00	35/37	8.3/8.5	~~8.5~~	10.0	DITCH/TRANK TCP 300 PPM
11.15		8.6	9.2		Drilling Detergent 5 gal.
12.00	34	8.6			PolyMer 100
2.00	35	8.6			Cromic Chloride 35
4.00				10.5	Water 30

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

	From	To	Hrs.
DRILLING	8.00	4.00	8

Driller ..... F. Kosmerman

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

From	To	Hole Made	Hole Size	Formation
7559	7587	28	8 5/8	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	75	2	2	682-35	REAMER 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652-30	DRILLING STRING	DRILL COLLARS
DATA	1	8½		30.05	185	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
7H	MHL	7 00 AM	7 PM	12¼	7587	4.5	123	

Bit Serial No. 7H3389 Table R.P.M. 88

Jet or Conventional - JET Nozzle Size 12-12-11 32

Kind TOTCO at 7585 Ft. 1¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4¾		1600	14	72	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4.00	36	8.7	9.1	10.0	Water 13 BBLS
6.00	35	8.7			50 lbs Caustic Soda
700	TCP. 325 RPM.				10.16 Dowcide B

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CHECK KELLY COCK					
BIT CONDITION BT-B8-G1					

	From	To	Hrs.
DRILLING	4.00	7.00	3¼
CIRCULATE BEFOR CORING	7.00	8.00	1
SURVEY	8.00	8.45	½
PULL OUT OF HOLE	8.45	11.00	3
SERVICE RIG	11.45	12.00	¼
			8

Driller ..... Hackett

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 2 NO .....

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 100

I.O.E. STONEY LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor Imp. Oil Enterprises Type Rig #3 NAT 100 Month MARCH Day 19 19 66

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

From	To	Hole Made	Hole Size	Formation
7414	—	—	8 9/16	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	76	—	35	459.72	59.10

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	16	7	2 3/4		172 M	43 M
DATA						

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

Bit Serial No. 8103 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

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

SURVEYS

PUSH PUMP RECORD No. 1 No. 2

MUD RECORD

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	12	1 45	1 3/4
REPAIR CORE BBL.	1 45	4 45	3
SERVICE Rig & B.O.P	4 45	5	1/4
TRIP IN TO CORE	5	8	3
PUT ON RUBBERS			8

Driller Mulcahill

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

From	To	Hole Made	Hole Size	Formation
7414	7441	27	8 9/16	Lime

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	76	—	4	459.72	59.10

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	16	7	2 3/4	459.72	172m	43m
DATA						

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	Hycalog	8:45 AM						

Bit Serial No. 8103 Table R.P.M. 88

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
7 1/4		800	18	52	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	37				Water 10.5 BBL
10 00	36	8.4	9.4	9.5	I.C.P. 300+ ppm.
12 00	36	8.4			Caustic 75
2 00	36	8.3		9.8	Dowicide "B" 25
					Aluminum Stearate 25

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
7414	7441	27			

	From	To	Hrs.
Clean to Bottom	8:00	8 45	3/4
Circulate before Coring	8:45	4 00	7 1/4
Coring			8

Driller George McKenzie

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

From	To	Hole Made	Hole Size	Formation
7441	7464	23	8 9/16	LIME

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft. - Sub
4 1/2	76	1	10	459.72	59.10

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	16	7"	2 3/4	459.72	172M	43M
DATA						

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3	◇	8 45 AM	9 30 PM	12 3/4	7464	20-22	50	

Bit Serial No. 8103 Table R.P.M. 88

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
5 1/2		800	18	52	5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	36	8.3			Water & Lbs.
6 00	36	8.3			25 lbs. caustic soda
8 00	36	8.3	9.4	9.8	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
7414	7464	50	Not 35	8	HYCALOG

	From	To	Hrs.
CORING	4 00	9 30	5 1/2
PULL OUT OF HOLE	9 30	12 00	2 1/2
			8

Driller J. Lawless

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

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 99

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig #3 MAT 100 Month MARCH Day 18 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7252	7312	60	8 3/8	LIME-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	73	—	28	682-35	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7	2 3/4	657.30		
DATA	1	□ 8½		30.05	184 M	62M

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
73	WT	12 PM				45M		

Bit Serial No. 1791 Table R.P.M. 40-60

Jet or Conventional - JET Nozzle Size 10 11 11 32nds

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	7 ¾		1700	14"	60	5 ½
No. 2		3		18"		5 ¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 00	34	8.5			Gel 1000 #
4 00	34	8.4			Dowicide "B" 20 #
7 00	35	8.5			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CLEAN TO BOTTOM	12	12 15	¼
DRILLING	12 15	7	6 ¾
THAW FROZEN AIR LINE	7	7 15	¼
DRILLING	7 15	8	¾
			8

Driller W. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7312	7380	68	8 3/8	Lime-Shale

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	73	2	21	682-35	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7	2 3/4	652.30		
DATA	1	□ 8½		30.05	184M	62M

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
73	WT	12 15 AM				45M		

Bit Serial No. 1791 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 10 11 11 32nds

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
				14		5 ¾
	8		1500	18	52	5 ¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	35	8.5			Caustic 25 #
10 00	35	8.5	9.8	9.8	TCP 525+PPM.
12 00	35	8.5			Kelzan 100 #
2 00	36	8.5			Cromic chloride 33 #
4.00				9.75	

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
			8

Driller George McKenzie

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7380	7414	34	8 5/8	LIME-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	74	/	18	682-35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	23	7	2 3/4	652-30		
DATA	1	□ 8½		30-05	185M	62M

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
73	WT	12 15 PM	8 00 PM	19½	7414	45	162	

Bit Serial No. 1791 Table R.P.M. 60

Jet or Conventional - Jet. Nozzle Size 10 11 11 32nds

SURVEYS

Kind TOTCO at 7410 Ft. 1½ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
						5 3/4
	5 ¼		1500	18	52	6 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	36	8.4			1066 lbs. Water
6 00	36	8.5		10.0	
8 00	36	8.4			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4 00	8 00	4
CIRCULATE BEFORE CORING	8 00	9 00	1
SURVEY	9 00	9 30	½
PULL OUT - CHANGE RUBBERS ON DRILL PIPE	9 30	12 00	2 ½
			8

Driller Hoehn

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 98

I.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil ENTERPRISES Type Rig NAT #3 NAT 100 Month MARCH Day 17 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7193	7211	38	8 5/8	LIME - SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	71	2	13	682.35	STEP REAMER 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8½		30.05	182M	62M

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
72	RG7X	6 P.M.				38M		

Bit Serial No. 6529 Table R.P.M. 40

Jet or Conventional - JET Nozzle Size 10-11-11 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	8		1425	14"	74	5½
No. 2				18"		5½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	34	8.4			Dowicide "B" 25#
2:00	32	8.4			Causatic 100#
4:00	33	8.4			
6:00	34	8.4		9.0	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRCULATE SAMPLE	12	12:15	¼
DRILLING	12:15		7¾

Driller W. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7211	7252	41	8 5/8	Lime & Shale

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	1	682.35	Step Reamer 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 square ½		30.05	182M	62M

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
72	RG7X	6 PM	3:45	14¼	7252	38M	161	

Bit Serial No. 6529 Table R.P.M. 40

Jet or Conventional - Jet Nozzle Size 10-11-11 32

Kind TOTCO at 7247 Ft. 1½ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7¼		1400	14	73	5½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	34	8.4	10.8	9.5	T.C.P. 250 PPM FLT 1/32
10:00	35	8.4			Dowicide B 25#
12:00	35	8.4	10.8		Caustic 100#
2:00	35	8.4		10.4	Water 10 BBL
					Aluminum Stearate 25#
					Caustic 100#
					Calcium Chloride 33#

CORING

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

2 P.M. TCP 325 PPM

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8:00	1:30	5½
Change Pumps & Check Pressures on pump	1:30		
Stop desander unit		1:45	¼
Desander put air in mud			
Drilling	1:45	3:30	1¾
Totco	3:30	3:45	¼
Pulling Out	3:45	4:00	¼
			8

Driller George McKenzie

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7252	—	—	8 5/8	LIME - SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	1	26	682.35	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 8½		30.05		62M

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
73	W7							

Bit Serial No. 1791 Table R.P.M.

Jet or Conventional - Jet Nozzle Size 10-11-11 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
No. 1						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION #72			BUTTONS	1 B	1 GI

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT OF HOLE -	4:00		
CHANGE RUBBERS ON DRILL PIPE		7:30	3½
SERVICE RIG.	7:30	8:00	½
RUN IN DRILL COLLARS	8:00	8:30	½
CUT DRILLING LINE	8:30	9:15	¾
WORK ON SECTION E-500 PUMP	9:15	10:15	1
RUN IN HOLE	10:15	12:00	1¾
			8

Driller Hockey

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. J-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 97

L.O.E. STONEY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Imp. Oil ENTERPRISES Type Rig NAT #3 NAT 100 Month MARCH Day 16 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7111	7129	18	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	70	2	2	682-35	STEP REAMER 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	SQUARE 8 1/2		30.05	182 M	62M

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
73	VHWG	5:30 PM				25-45		

Bit Serial No. E34527 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	4	4	1400	14"	78	5 3/4
No. 2		3 3/4		18"		5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5:00	33	8.5			Polymer 100#
6:30	33	8.4			Chromic Chl 30#
7:30	33	8.4		9.0	Gel 1000#
					Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
INSTALL TABLE TORQUE	12	1:15	1 1/4
SERVICE RIG - CHECK B.O.P	1:15	1:30	1/4
TRIP IN	1:30	4	2 1/2
REAM TO BOTTOM	4	5:30	1 1/2
DRILLING	5:30	8	2 1/2
			8

Driller ..... Montgrieff

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

From	To	Hole Made	Hole Size	Formation
7129	7152	23	8 5/8	Lehert & Shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	71	—	10	682-35	Step Reamer 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	Square	8 1/2	30.05	182 m	62 m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
73	VHWG	5:30 AM	11:15 AM	5 3/4	7152	45m	41	
72	RGTX							

Bit Serial No. E34527; 6529 Table R.P.M. 60

Jet or Conventional - Jet 12 10 11 Nozzle Size 3 1/32

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3-4		1420	14	72	5 3/4
			18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	34	8.4			Water
10	35	8.4			Chromic Chloride 16
					Polymer 50

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

Bit Condition T 8 S G O

Change Stand on top of Hill (Allowed)	From	To	Hrs.
Drilling	8:00	11:15	3 1/4
Trip out of Hole	11:15	2:00	2 3/4
Service Rig Check B.O.P.S	2:00		
Kelly Cock		2:30	1/2
Set up Brake	2:30	2:45	1/4
Trip in Hole	2:45	4:00	1 1/4
			8

Driller ..... George McKenzie

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

From	To	Hole Made	Hole Size	Formation
7152	7193	41	8 5/8	CHERT-SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	71	1	20	682-35	5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2 3/4	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	8 1/2		30.05	182M	62M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
72	RGTX	6 PM				25-37		

Bit Serial No. 6529 Table R.P.M. 38

Jet or Conventional - Jet Nozzle Size 10 11 11 32

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1650	14	72	5 3/4
			18		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6:30	34	8.4			Water
8:00	35	8.4		9	50 lbs. CAUSTIC SODA
10:00	35	8.4			30 lbs Chrome Chloride
					100 lbs Polymer

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

	From	To	Hrs.
RUN IN HOLE	4:00	5:00	1
REAM TO BOTTOM	5:00	6:00	1
DRILLING	6:00	11:00	5
CIRCULATE BEFORE CORING	11:00	12:00	1
			8

Driller ..... Hoeber

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

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 96

L.O.E. STONEY LSD ..... SEC ..... TWN ..... RGE ..... W ..... Contractor Imp Oil ENTERPRISES Type Rig NAT 100 #3 Month MARCH Day 15 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7041	7050	9	8 5/8"	Chert & Shale

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	10	—	23	652.30	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	□ 6½		30.05	182 M	62 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
RR7	YHWG	10 30 PM	2 30 PM	4	7050	30-35	20	
76	H7							

Bit Serial No. E64087 743027 Table R.P.M. 60

Jet or Conventional - Nozzle Size 3 11/32

SURVEYS

Kind Totco at 7045 Ft. 1½° Deg. off

MUD RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	2 1/4	5 1/2	750	14"	74	5 3/4
No. 2				18"		5 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1 00	33	8.5			

11" T.B.I. Condit-ion T-4 B-8 G-0

CORING

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

Checked Kelly Cock.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	2 30	2½
Totco at 7048'	2 30	2 45	¼
Trip out	2 45	5 15	2½
Service Rig Check B.O.P.	5 15	5 45	½
Trip in Hole	5 45	8 00	2¼

Driller Clifford Kyper

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7050	7087	37	8 5/8	CHERT - SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	1	14	682-35	STEP REAMER 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1-	SQUARE		30.05	182 M	62 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
72	H7	9 AM				35-45M		

Bit Serial No. 743027 Table R.P.M. 60-40

Jet or Conventional JET Nozzle Size 3- 11/32

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7¼	2¼	1600	14"	74	5¾
				16		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 15	33	8.5			Pax lymer 100#
11 30	33	8.5			Carbonx 600#
1 30	31	8.5			Chromic Chloride 3#
230	32	8.5		9.0	Bacmin 88

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHANGE ELEVATORS	8	8.15	¼
REAM TO BOTTOM	8.15	9	¾
DRILLING	9	4	7
			8

Driller [signature]

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

DEPTH

From	To	Hole Made	Hole Size	Formation
7087	7111	24	8 5/8	Chert & Shale

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	2	20	682-35	Step Reamer 5.56

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	23	7"	2¾	652.30	DRILLING STRING	DRILL COLLARS
DATA	1	Square		3005	182 m	62 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
72	H7	9am	9 00 PM	12	7111	45-48	61	

Bit Serial No. 743027 Table R.P.M. 60

Jet or Conventional - Jet Nozzle Size 3 11/16

Kind Totco at 7105 Ft. 1¾ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5	3	1400	14	73	5¾
				18		5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	33	8.4			Polymer 125
6 00	32	8.4			C-Cl3 33
8 00	33	8.4		9.0	Water
					Bromide "B" 20#

CORING

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

Bit Condition T 8 B 8 G 0

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4:00	9 00	5
Totco @ 7105	9 00	9:15	¼
Trip Out	9:15	12 00	2¾

Driller George McKenzie

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 [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 45

I.O.E STONY LSD SEC TWN RGE W. Contractor I.O.E Type Rig Cabot Nat #3 Month March Day 14 19 66

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
6984	7015	31	8 9/16	

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
7015	7030	15	8 9/16	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
7030	7041	11	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	28	427.57	58.00

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	15	7"	2¾	427.57	167	43M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	14	427.57	58.00

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	15	7	2¼	427.57	168	43M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	2	Kelly	682.35	5.56

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	23	7"	2¾	652.30	182	62
	1	square		30.05		

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	Byd.	4 47 PM				20M		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	Hycalog	9 45 AM	11 15 AM	13½	7030	20M		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
FR 69	Hycalog	10 30 PM				30M		60

Bit Serial No. 7845 Table R.P.M. 80
Jet or Conventional - DIAMOND Nozzle Size
Kind at Ft. Deg. off

Bit Serial No. 7845 Table R.P.M. 80
Jet or Conventional - DIAMOND Nozzle Size
Kind at Ft. Deg. off

Bit Serial No. E64087 Table R.P.M. 60
Jet or Conventional - Jet Nozzle Size
Kind at Ft. Deg. off

SURVEYS

RUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8		950	14"	75	5 3/4
2		2		18"		5 3/4

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

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3¾	4¼	800	14	74	5¾

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 30	33	8.4			
2 00	32				150# C.M.C.
4 00	34	8.4			Water
6 00	34				
7 30	34	8.4			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	34	8.5			
10 00	33	8.4			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	34	9.5			Bicarb 350#
10 00	33	9.5			
11 00	33	9.5		9.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6983				7	Hycolog

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6983	7030	47	5	7	HYCALOG

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Coring	12 00	8 00	8

	From	To	Hrs.
CORING	8	11 15	3¼
TRIP OUT - MEASURE	11 15	2 15	3
RECOVER CORE	2 15	2 45	½
~~TRIP~~ RI			
REPAIR CORE BBL	2 45	3 30	¾
SERVICE RIG & B.O.P	3 30	4	½

	From	To	Hrs.
Pick up Step Reamer, Square Drill Collar Laid down	4:00		
Bottom Hole Collar		5 15	1¼
Run in Hole to drill ahead measure in hole.	5:15	8:15	3
Reams 60 ft to bottom	8 15	10 30	2¼
Drilling	10 30	12 00	1½
			8

Driller Clifford Tippen

Driller M Coghill

Driller George M Kenzie

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 ____ Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. E.50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 94

I.O.F STONY LSD. SEC. TWN. RGE. W. Contractor I.O.F Type Rig Co Tools Nat #3 Month MARCH Day 13 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6980	6982	2	8 5/7"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	8	427.57	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	15	7"	2¾	427.57	DRILLING STRING	DRILL COLLARS
DATA					162M	43M

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
69	YHWG	6 00 AM	7 00 AM	1	6982	30M	2.	
						Cleaned out to Bottom		

Bit Serial No. E64087 Table R.P.M.

Jet or ~~Conventional~~ - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

PUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7	600	14"	72	5 3/4

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.
Trip out	12 00	3 00	3.
STAND Back Core Barrel	3 00	3 30	½.
Make up Junk sub			
Trip in with Bit Junk Sub	3 30	5 30	2.
Pick up 8 singles	5 30	6 00	½.
Circulate Junk Sub	6 00		
Drilled 2 feet 10' fill		7 00	1
Trip out	7 00	8 00	1

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
6982	6983	1	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	7	427.57	Junk Sub 2

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	15	7	2¾		DRILLING STRING	DRILL COLLARS
DATA					162M	43M

No. RR	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
69	YHWG	12 00 pm					1	

Bit Serial No. E64087 Table R.P.M.

Jet or Conventional - JET Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		600	14	72	6 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	32	8.4			Kelgon 150#
2 30	34	8.4			Con Chrom 30# (CrCl₃)

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

	From	To	Hrs.
TRIP OUT	8	9 30	1½
SERVICE RIG & B.O.P	9 30	10	½
TRIP IN WITH JUNK SUB	10	12	2
PUT IN CORROSION RING	12	12 15	¼
CIRCULATE HOLE CLEAN	12 15		
WORK JUNK SUB			
CONDITION MUD		2 30	2¼
TRIP OUT TO CORE	2 30	4	1½
			8

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
6983	6984	1	8 9/16	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	2	29	427.57	5 8.00

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	15	7	2¾	427.57	DRILLING STRING	DRILL COLLARS
DATA					167	43M

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							

Bit Serial No. 7845 Table R.P.M. 80

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
3¾	4¼	850	14	70	5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	33	8.4			CMC 100#

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

	From	To	Hrs.
Trip out to Core	4.00	5 00	1
Pick up Core barrel			
Reset lead on Core barrel	5 00	6 00	1
Cut Line & Grease Blocks	6 00	6 45	¾
Run in hole to Core	6 45	8 45	2
Clean to bottom Circulate & Work magnet before coring	8 45	9 45	1
Coring	9 45		
		12 00	2¼

Driller George McKenzie

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. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 93

I.O.F. STONY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.F. Type Rig Co.Tools Nat #3 Month MARCH Day 12 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6958	6980	22	8 5/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	1	21	681.64	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2¾	681.64		
DATA					180M	61M

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
67	YHWG	7½ PM	5½ AM	10½	6980	30,35	47	

Bit Serial No. EN3201 Table R.P.M. 60

Jet or ~~Conventional~~ - Nozzle Size 22/32

Kind Toteo at 6975 Ft. 14½ Rev Deg. off

SURVEYS PUSH PUMP No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6½	1	450	14"	70	5 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	27	8.4			350# Gelgan
230	31	8.4			100# Crom. Chlor.
400	31	8.4			25# Dowicide B
600	31	8.4			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	5 45	5 3/4
Circulating up sample	5 45	6 30	3/4
Totco at 6975'	6 30	6 45	1/4
Tripping	6 45	8 00	1 1/4

Driller Clifford Tilligan

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

From	To	Hole Made	Hole Size	Formation
6980	—	—	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	1	28 23	681-64	JUNK-548 1.80

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2¾			
DATA					180M	61M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
68	HT	Milled	ON	ON				10'

Bit Serial No. 680707 Table R.P.M. 85

Jet or ~~Conventional~~ - JET Nozzle Size 3/11

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
330	31	8.4			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Condition BJ = 67 T7-B4-G0 1/4					

	From	To	Hrs.
TRIP OUT	8	10	2
SERVICE Rig & B.O.P	10	10 30	½
CLEAN up JUNK SUB	10 30	10 45	¼
TRIP IN	10 45	2	3¼
REAM UNDER GAGE HOLE 6970 -6980	2	3 15	1¼
TIGHTEN UNIONS ON STANDPIPE & KELLY HOSE	3 15	3 30	¼
CIRCULATE JUNK SUB	3 30	4	½

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
6980		[illegible]	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	21	681-64	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	24	7	2¾			
DATA					180m	61m

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							

Bit Serial No. 7845 Table R.P.M.

Jet or Conventional - Nozzle Size

Kind Toteo at 6975 Ft. 1 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.
~~Bit~~ Condition T4 B2				20	

	From	To	Hrs.
Totco	4	430	½
Pull out of Hole	430	730	3
Check B.O.P.S.	730	745	¼
Pick up Core Barrel &	745		
service install magnet		900	1¼
Trip in Hole Put	900		
corrison ring above collars		1145	2¾
~~Bit~~ Pull out			
to run bit & Junk basket	1145	1200	¼

Driller George McKenzie

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 A ..... 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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 92

I.O.E. Stony LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Nat #3 Type Rig Co Tools Nat 100 Month March Day 11 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	69	1	22	681.64.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	0			681.64	DRILLING STRING / DRILL COLLARS
DATA	24	7"	2¾"		61M.

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
67	YHWG							

Bit Serial No. EN3261 Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
¾	7¼.			14.	5¾

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.
Picked up 6-7" D.C.	12 00		
Trip in hole protector			
Put on casing protector rubbers		7 15	1¼
Circulating out mud.	7 15		
displace with water		9 00	¾

Driller Clifford Kuppen

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

From	To	Hole Made	Hole Size	Formation
			8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	22.	681-64	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	24				DRILLING STRING / DRILL COLLARS
DATA					180M 61M

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

Bit Serial No. EN 3206 Table R.P.M.

Jet or Conventional - JET 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				Soda Ash 200#

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

	From	To	Hrs.
DISPLACE MUD TO WATER	8	10 30	2½
CHANGE FROM 10 TO 8 LINE	10 30		
CUT SEE 100' D. LINE.		3	4½
THAW SHAKER	3		
PRESSURE TEST CASING		4	1
WITH 4½ PIPE RAMS			
& HYDRIL TO 1500 PSI.			
O.K.			

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
6933	6958	25 15	8 5/8	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	—	12	681-64	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	24	7	2¾	681-64	DRILLING STRING / DRILL COLLARS
DATA					180m 61m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
67	YHWG	7:15 pm				25-30		

Bit Serial No. EN 3206 Table R.P.M. 80

Jet or Conventional - Jet Nozzle Size 22-32

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		500	14	72	5¾

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00		8.4			Water
10 00		8.4		11.6	Pelter 250#
11 00		8.4			Soda Ash 200#

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

	From	To	Hrs.
Repair flow nipple	400	600	2
Drill out float & shoe	600	715	1¼
Drilling	715		
		1200	4¾
			8

Driller George McKenzie

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 R. Demarest Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 91

I.D.E. Stony LSD..... SEC..... TWN..... RGE..... W..... Contractor I.D.E. Nat #3 Type Rig Co Tools Month March Day 10 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

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

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

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

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C	12 00	8 00	8.
Cleaning out mud Con Vess.			

Driller Clifford Kupper

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

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

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

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

	From	To	Hrs.
W. O. C.	8	4	8
Jacking & Leveling mud TANKS.			

Driller

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

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

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

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

	From	To	Hrs.
W.O.C.	4	1030	6½
Jacking & Leveling mud tank			
Workon E500	1030	1115	3/4
Pickup 3 Drill Collars	1115	1200	3/4

Driller George McKenzie

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 ..... Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. J-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 90

I.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. NAT. 3 Type Rig NAT # 100 Month MARCH Day 9 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 6933	From: 6933	From: 6933
	To:	To:	To:
	Hole Made:	Hole Made:	Hole Made:
	Hole Size:	Hole Size:	Hole Size:
	Formation:	Formation:	Formation:
	Size-D.P.:	Size-D.P.:	Size-D.P.:
	Stands:	Stands:	Stands:
	Singles:	Singles:	Singles:
	Kelly:	Kelly:	Kelly:
	Drill. Collar Ft.:	Drill. Collar Ft.:	Drill. Collar Ft.:
	Core Bbl. Ft.:	Core Bbl. Ft.:	Core Bbl. Ft.:
DRILLING STRING	DRILL / COLLAR / DATA — Number, OD, ID, Length, INDICATOR WEIGHT OF TOTAL DRILLING STRING, DRILL COLLARS	DRILL / COLLAR / DATA — Number, OD, ID, Length, INDICATOR WEIGHT OF TOTAL DRILLING STRING, DRILL COLLARS	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	No., Type, Time On Bottom At, Time Pulled At, Total Hours Run, Depth Pulled, Weight On Bit M Pounds, FOOTAGE Drilled, Reamed	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.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
PUSH PUMP RECORD No. 1	HOURS On Line: / Circulating: 5 — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size 6 3/4	HOURS On Line: / Circulating: — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	HOURS On Line: / Circulating: — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size
No. 2	Circulating: 9 — Liner Size 6 1/16		
MUD RECORD	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS
CORING	From, To, Ft. Cored, Ft. Rec'd., Core No., Type Bbl.	From, To, Ft. Cored, Ft. Rec'd., Core No., Type Bbl.	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
Cleaning out mud pits & #2 tank			

Driller Clifford Kippen

	From	To	Hrs.
W. O.C.	8	4	8
Nippling up Co's setting slips			

Driller W Coghill

	From	To	Hrs.
W.O.C.	4	12	8
Hooking up 5 3/4" lines to £500 pump			

Driller George McKenzie

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 .....

IMPERIAL OIL LIMITED

DATE Mar 7-8-1966 — EDMONTON PRODUCING DIVISION — FORM No. 558

PAGE No. ____

REFERENCE TALLY No. ____

CASING—CEMENTING REPORT

NAME OF WELL I.O.E Stoney T-50

CONTRACT RIG Co. Rig Nat # 3 — PREPARED BY C.L. Kelly

CASING	SIZE O.D. (IN.)	WEIGHT LB./FT.	GRADE	MANUFACTURER	COLLARS SHORT/LONG	No. OF JOINTS	AMOUNT FT.	DEPTH FT K.B. (O)
	9 5/8	43.5	N-80	National	Long	32	1145.73	
	9 5/8	40	N-80	Mannesmann	Long	180	5807.55	
STAGING COLLAR								
BACK-OFF COLLAR OR PACKER								
FLOAT COLLAR	T. & C.		G	Baker	Diff Fill-up		1.85	
CASING								
SHOE				Baker	Guide shoe		1.22	

HOLE SIZE ____ IN. FROM ____ TO ____ FT.
HOLE SIZE 12¼ IN. FROM 580 TO 6933 FT.
HOLE SIZE ____ IN. FROM ____ TO ____ FT.
K.B. TO TOP OF SURFACE CASING FLANGE 15.10 FT.
CASING CUTOFF ____ IN. ABOVE TOP OF CASING FLGE.
TYPE OF CASING - A.P.I. [✓] EXTREME LINE [ ]
POWER TONGS USED — YES [ ] NO [✓]
POWER TONGS SUPPLIED BY ____

TOTAL	6956.38
CALC. AMT. UP ON LAST JT.	23.00
ACTUAL AMT. UP ON LAST JT.	18.00
MAKE UP ALLOWANCE	5.00
CASING SET	6933
TOTAL DEPTH OF HOLE	6933

TYPE OF FLOAT EQUIPMENT Diff. Fill-up — MANUFACTURER Baker

ITEM	TYPE	MANUFACTURER	No.	SPACING FT.	INTERVAL COVERED	FT. K.B. (O)
SCRATCHERS						
CENTRALIZERS	Solid	Weatherford	3	1st 3rd 5th Jt.		

TYPE OF MUD Gel Chemical
INITIAL MUD WT. 9.9 LB/GAL. VISCOSITY 130 SEC.
FINAL MUD: WT. 9.9 LB./GAL. VISCOSITY 120 SEC.
CEMENTED BY Howco
CEMENT USED 585 SKS. GEL.: ____ % ____ SKS.
ADDITIVES Lignox AMT (150 lbs.) 3 SKS.
Dowell anti-foam AMT 1 gal. SKS.
TIME CASING STARTED IN HOLE ____ A.M. P.M.
DROPPING RATE AT 2000' WAS 20 SEC. FOR 31 FT. JT.
4000' WAS 25 SEC. FOR 41 FT. JT.
6000' WAS 30 SEC. FOR 31 FT. JT.
8000' WAS 35 SEC. FOR 37 FT. JT.
WAS THERE LOSS OF FLUID WHILE RUNNING PIPE? No
IF SO AT WHAT DEPTH? ____ FT.
TIME CASING ON BOTTOM ____ A.M. 6.45 P.M.
CIRCULATION BROKEN AT ____ A.M. 7.10 P.M.
PRESSURE REQUIRED TO BREAK CIRCULATION 600 P.S.I.

CIRCULATING PRESSURE AFTER CLEANUP 600 P.S.I.
STROKE LENGTH WHILE RECIPROCATING 10 FT. INITIALLY
0 FT. FINALLY
TIME STARTED MIX CEMENT ____ A.M. 8.10 P.M.
WAS BOTTOM PLUG USED No ?
RELEASED TOP PLUG AT ____ A.M. 9.40 P.M.
PRESSURE JUST BEFORE PLUG HITS 800 P.S.I.
MAXIMUM PRESSURE 1600 P.S.I.
PLUG CHASED WITH Mud AND BUMPED AT 10.40 A.M. P.M.
STROKE LENGTH WHILE CEMENTING 0 FT.
WAS THERE ANY DIFFERENCE IN PUMP PRESSURE ON UPSTROKE AND DOWNSTROKE? NONE 50 P.S.I.
MUD RETURNS WHILE CEMENTING [✓] FULL [ ] PARTIAL [ ] NONE. EXPLAIN IN REMARKS.
RECIPROCATION STOPPED AT ____ A.M. ____ P.M.
REMARKS Start mix 8.10 pm) 55 Min.
Finish mix 9.05 pm)

Mar 8 TW

IMPERIAL OIL LIMITED

FORM No. 559

EDMONTON PRODUCING DIVISION

PAGE No. _____

PIPE TALLY

TALLY No. _____

DATE Mar. 7 1966

NAME OF WELL I.O.E. S. Tomay. I-50

CONTRACT RIG Nat #1 MEASURED BY Al Bennett CHECKED BY G. Kelly

NOMINAL PIPE SIZE 4½ WT. 10 LB/FT. GRADE N-80 RANGE 2-3 THREADS PER INCH 8

TYPE OF PIPE Seamless LONG/SHORT COLLAR Long MANUFACTURER N.S. & M

No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS
1	32	65	21	33	04	41	33	31	61	26	40	81	[illegible]	[illegible]
2	30	94	22	32	25	42	33	23	62	30	06	82	[illegible]	[illegible]
3	32	25	23	29	78	43	31	87	63	28	05	83	25	11
4	31	23	24	30	93	44	31	23	64	27	67	84	33	25
5	32	62	25	28	36	45	31	50	65	33	13	85	[illegible]	[illegible]
6	31	68	26	33	47	46	32	45	66	31	80	86	[illegible]	[illegible]
7	31	74	27	32	63	47	32	50	67	32	35	87	[illegible]	[illegible]
8	28	48	28	32	32	48	33	54	68	31	36	88	[illegible]	[illegible]
9	32	06	29	132	46	49	32	48	69	32	03	89	[illegible]	[illegible]
10	32	57	30	28	08	50	32	56	70	32	46	90	[illegible]	[illegible]
TOTAL 1-10	316	62	TOTAL 21-30	342	85	TOTAL 41-50	324	58	TOTAL 61-70	305	23	TOTAL 81-90	[illegible]	[illegible]
11	32	68	31	32	22	51	33	92	71	28	84	91	33	56
12	31	94	32	33	80	52	31	98	72	32	70	92	30	67
13	31	97	33	32	48	53	32	93	73	32	30	93	[illegible]	[illegible]
14	31	37	34	32	73	54	32	92	74	29	54	94	[illegible]	[illegible]
15	33	06	35	32	47	55	30	62	75	31	50	95	[illegible]	[illegible]
16	29	92	36	32	[illegible]	56	32	52	76	32	55	96	[illegible]	[illegible]
17	32	30	37	32	78	57	31	98	77	31	37	97	[illegible]	—
18	33	24	38	32	35	58	32	95	78	30	94	98	[illegible]	31
19	30	65	39	31	06	59	32	26	79	32	40	99	[illegible]	41
20	33	10	40	32	61	60	32	10	80	32	58	100	[illegible]	—
TOTAL 11-20	317	79	TOTAL 31-40	325	89	TOTAL 51-60	323	41	TOTAL 71-90	314	66	TOTAL 91-100	[illegible]	[illegible]

TOTAL 1-20		TOTAL 21-40		TOTAL 41-60		TOTAL 61-80		TOTAL 81-100	

TOTAL 1-20	1632	40
TOTAL 21-40	1326	74
TOTAL 41-60	1647	99
TOTAL 61-80	1499	59
TOTAL 81-100	[illegible]	21
GRAND TOTAL 1-100	2539	08

GRAND TOTALS 1-100		
GRAND TOTALS 101-____		
GRAND TOTALS ____-____		
GRAND TOTAL 1-____		

CAUTION: IF THE BOTTOM TEN JOINTS ARE NOT RUN IN SEQUENCE SHOWN, INDICATE ACTUAL SEQUENCE.

FLOAT COLLAR [illegible] FT.

FLOAT SHOE _____ FT.

_____ FT.

_____ FT.

IMPERIAL OIL LIMITED

EDMONTON PRODUCING DIVISION

FORM No. 559

PAGE No. _____

TALLY No. _____

PIPE TALLY

DATE Mar 7/66

NAME OF WELL I.O.E. Stoney I-50

CONTRACT RIG Nat #1 MEASURED BY Al Bennett CHECKED BY G. Kelly

NOMINAL PIPE SIZE 9⅝ WT. 40 LB/FT. GRADE N-80 RANGE 3-3 THREADS PER INCH 8

TYPE OF PIPE Seamless LONG/SHORT COLLAR Long MANUFACTURER N.S.Co & Mannesmann

No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS
1	40	56	21	37	93	41	32	58	61	32	42	81	33	18
2	33	00	22	32	65	42	33	54	62	32	30	82	33	21
3	40	57	23	31	54	43	31	07	63	32	33	83	33	11
4	40	79	24	32	67	44	31	57	64	33	07	84	32	84
5	31	73	25	32	84	45	30	88	65	27	91	85	33	22
6	31	62	26	32	67	46	32	97	66	32	56	86	32	42
7	40	57	27	40	64	47	32	84	67	32	85	87	31	71
8	41	00	28	32	45	48	32	34	68	32	21	88	32	36
9	40	68	29	32	41	49	32	80	69	33	31	89	32	22
10	32	36	30	39	39	50	32	40	70	31	50	90	32	32
TOTAL 1-10	372	88	TOTAL 21-30	345	16	TOTAL 41-50	322	99	TOTAL 61-70	320	46	TOTAL 81-90	326	59
11	37	55	31	33	02	51	29	94	71	32	43	91	33	56
12	32	07	32	31	19	52	30	61	72	32	16	92	30	67
13	31	77	33	27	33	53	29	17	73	30	98	93	29	28
14	31	89	34	33	06	54	31	52	74	32	84	94	30	57
15	43	41	35	30	18	55	31	76	75	33	38	95	28	94
16	39	30	36	32	02	56	30	55	76	32	46	96	28	88
17	32	38	37	29	71	57	32	94	77	32	51	97	30	—
18	32	24	38	32	97	58	32	24	78	30	98	98	33	31
19	10	60	39	32	52	59	33	66	79	32	15	99	30	41
20	33	20	40	33	31	60	32	89	80	29	41	100	33	—
TOTAL 11-20	354	41	TOTAL 31-40	315	31	TOTAL 51-60	315	28	TOTAL 71-80	319	30	TOTAL 91-100	308	62
TOTAL 1-20			TOTAL 21-40			TOTAL 41-60			TOTAL 61-80			TOTAL 81-100		

TOTAL 1-20	727	30
TOTAL 21-40	660	47
TOTAL 41-60	638	27
TOTAL 61-80	639	76
TOTAL 81-100	635	21
GRAND TOTAL 1-100	3301	01

GRAND TOTALS 1-100		
GRAND TOTALS 101-____		
GRAND TOTALS ____-____		
GRAND TOTAL 1-____		

CAUTION: IF THE BOTTOM TEN JOINTS ARE NOT RUN IN SEQUENCE SHOWN, INDICATE ACTUAL SEQUENCE.

FLOAT COLLAR _____ FT.

FLOAT SHOE _____ FT.

_____ FT.

_____ FT.

IMPERIAL OIL LIMITED

EDMONTON PRODUCING DIVISION

FORM No. 559

PAGE No. _____

TALLY No. _____

PIPE TALLY

DATE Mar 7/66

NAME OF WELL I.O.E Stoney I-50

CONTRACT RIG Nat #1 MEASURED BY Al Bennett CHECKED BY G. Reilly

NOMINAL PIPE SIZE 4½ WT. 13.5 LB/FT. GRADE N-80 RANGE 2-3 THREADS PER INCH 10

TYPE OF PIPE Seamless LONG/SHORT COLLAR Long MANUFACTURER National

No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS	No.	FOOTAGE FEET	FOOTAGE TENTHS
1	33	50	21	41	22	41			61			81		
2	29	76	22	41	41	42			62			82		
3	31	17	23	41	34	43			63			83		
4	31	03	24	31	97	44			64			84		
5	31	74	25	31	53	45			65			85		
6	40	95	26	31	48	46			66			86		
7	41	59	27	30	20	47			67			87		
8	40	68	28	39	38	48			68			88		
9	40	85	29	31	29	49			69			89		
10	41	17	30	31	35	50			70			90		
TOTAL 1-10	362	44	TOTAL 21-30	344	17	TOTAL 41-50			TOTAL 61-70			TOTAL 81-90		
11	40	53	31	31	85	51			71			91		
12	33	11	32	31	53	52			72			92		
13	37	76	33			53			73			93		
14	31	70	34			54	738.23		74			94		
15	39	44	35			55	407.50		75			95		
16	41	75	36			56	1145.73		76			96		
17	38	74	37			57			77			97		
18	31	88	38			58			78			98		
19	40	98	39			59			79			99		
20	39	90	40			60			80			100		
TOTAL 11-20	375	79	TOTAL 31-40	63	33	TOTAL 51-60			TOTAL 71-80			TOTAL 91-100		

TOTAL 1-20	738.23	TOTAL 21-40	407.50	TOTAL 41-60	TOTAL 61-80	TOTAL 81-100

TOTAL 1-20		GRAND TOTALS 1-100	
TOTAL 21-40		GRAND TOTALS 101-____	
TOTAL 41-60		GRAND TOTALS ____-____	
TOTAL 61-80		GRAND TOTAL 1-____	
TOTAL 81-100			
GRAND TOTAL 1-100			

CAUTION: IF THE BOTTOM TEN JOINTS ARE NOT RUN IN SEQUENCE SHOWN, INDICATE ACTUAL SEQUENCE.

FLOAT COLLAR _____ FT.

FLOAT SHOE _____ FT.

1145.73 FT.

_____ FT.

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 89

I.O.E. STONY LSD I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 8 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6933 / To / Hole Made / Hole Size 12 1/4 / Formation	From 6933 / To / Hole Made / Hole Size / Formation	From 6933 / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING	DRILL COLLAR DATA: Number 15 / OD 7" / ID 2 3/4 / Length 462.48 / INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	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	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	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	Bit Serial No. / Table R.P.M. / Jet or Conventional - / Nozzle Size	Bit Serial No. / Table R.P.M. / Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUSH PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	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	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
		Lay 211 Jts. 9 5/8 Csg 2 to 3 & Ont Tube 43.5 # 40, 8 Thread Casing with Baker Float Shoe = 5840.04 = 40 lb. casing Cemented with 525 sack Common Plus .3% Hyflo 4 Plug down at 10.40 PM	Hawkmans (N80) 145.73 43 5 pups Total 6955.88' Ran 1.90 Landed at 6933.88
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
	Running 9 5/8 Casing 12:00 / 8:00 / 8	Running 9 5/8 Casing 8:00 / 4:00 / 8.	Run 9 5/8 Casing 4 / 6:00 / 2'
			Circulate Casing 6 / 8 / 2
			Cementing 8 / 10:45 / 2 3/4
			Cleaning up 10:45 / 12 / 1 1/4
	Driller Herbert	Driller Clifford Kippen	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

DAILY DRILLING REPORT No. 88

I.O.E. I-50-67-30-135-15
STONY LSD. SEC. TWN. RGE. W. Contractor I.O.E. #NAT. #3 Type Rig NAT. 100 Month MARCH Day 7 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 6933	From: 6933	From: 6933
	To:	To:	To:
	Hole Made:	Hole Made:	Hole Made:
	Hole Size:	Hole Size: 12¼"	Hole Size: 12¼
	Formation:	Formation:	Formation:
DRILLING STRING	Size-D.P.:	Size-D.P.: 4½"	Size-D.P.:
	Stands:	Stands: 71	Stands:
	Singles:	Singles: —	Singles:
	Kelly:	Kelly: 10	Kelly:
	Drill. Collar Ft.:	Drill. Collar Ft.:	Drill. Collar Ft.:
	Core Bbl. Ft.:	Core Bbl. Ft.:	Core Bbl. Ft.:
	DRILL COLLAR: Number / OD / ID / Length	DRILL COLLAR: Number / OD / ID / Length	DRILL COLLAR: Number / OD / ID / Length
	DATA: Number / OD / ID / Length	DATA: 15 / 7" / 2¾" / 429.48	DATA: 15 / 7 / 2¾ / 429.48
	INDICATOR WEIGHT OF TOTAL DRILLING STRING:	INDICATOR WEIGHT OF TOTAL DRILLING STRING: 160M	INDICATOR WEIGHT OF TOTAL DRILLING STRING: 162M
	DRILL COLLARS:	DRILL COLLARS:	DRILL COLLARS:
BIT RECORD	No.:	No.: RR	No.: RR
	Type:	Type: MAL	Type: MAL
	Time On Bottom At:	Time On Bottom At:	Time On Bottom At:
	Time Pulled At:	Time Pulled At:	Time Pulled At:
	Total Hours Run:	Total Hours Run:	Total Hours Run:
	Depth Pulled:	Depth Pulled:	Depth Pulled:
	Weight On Bit M Pounds:	Weight On Bit M Pounds:	Weight On Bit M Pounds:
	FOOTAGE Drilled:	FOOTAGE Drilled:	FOOTAGE Drilled:
	FOOTAGE Reamed:	FOOTAGE Reamed:	FOOTAGE Reamed:
	Bit Serial No.:	Bit Serial No.:	Bit Serial No.:
	Table R.P.M.:	Table R.P.M.:	Table R.P.M.:
	Jet or Conventional - Nozzle Size:	Jet or Conventional - Nozzle Size:	Jet or Conventional - Nozzle Size:
SURVEYS	Kind at Ft. Deg. off:	Kind at Ft. Deg. off:	Kind at Ft. Deg. off:
PUSH PUMP RECORD No. 1	HOURS On Line:	HOURS On Line: 4	HOURS On Line:
	HOURS Circulating:	HOURS Circulating: 4	HOURS Circulating:
	Pump Press:	Pump Press: 1600	Pump Press:
	Length of Pump Stroke:	Length of Pump Stroke: 14"	Length of Pump Stroke:
	Strokes Per Min.:	Strokes Per Min.: 67	Strokes Per Min.:
	Liner Size:	Liner Size: 6¾	Liner Size: 6¾
No. 2	HOURS Circulating:	HOURS Circulating: 2	HOURS Circulating:
	Pump Press:	Pump Press:	Pump Press:
	Length of Pump Stroke:	Length of Pump Stroke: 18"	Length of Pump Stroke:
	Strokes Per Min.:	Strokes Per Min.:	Strokes Per Min.:
	Liner Size:	Liner Size: 6¼	Liner Size: 6¼
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
		1⁰⁰ / 180 / 9.7 / / 10.3 / Water	4⁰⁰ / 124 / 9.8 / / 10.3 /
		2⁰⁰ / 85 / / / / 100# Cellex	
		3⁰⁰ / 128 / 9.8 / / /	
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS			
	LOGGING - REMOVE SCHLUMBERGER TOOLS — From 12⁰⁰ To 1³⁰ Hrs. 1½	String to 10 lines — From 8⁰⁰ To 10⁰⁰ Hrs. 2.	CIRCULATE HOLE CLEAN — From 4 To 4³⁰ Hrs. ½
	LAY DOWN 9" D.C. — From 1³⁰ To 4⁰⁰ Hrs. 2½	Run in to clean out hole — From 10⁰⁰ To 12⁰⁰ Hrs. 2.	TRIP OUT — From 4³⁰ To 8 Hrs. 3½
	STRING TO 10 LINES — From 4⁰⁰ To 8⁰⁰ Hrs. 4⁰⁰	Circulating — From 12⁰⁰	Rig up To Run CASING — From 8 To 10¹⁵ Hrs. 2¼
	8	Conditioning mud — To 4⁰⁰ Hrs. 4.	RUN 9⅝ CASING — From 10¹⁵ To 12 Hrs. 1¾
	Driller: Hockey	Driller: Clifford Kippen	Driller: W Cathill

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 87

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E..... Type Rig Ca Tools Nat 3 Month March Day 6 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	—	8		

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				14"		6¾
No. 2				18"		6½

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	12	8	8

Driller Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	70	—	8	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48		

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
		2		14"		6¾
		6		18"		6¼

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	8⁰⁰	4⁰⁰	8.

Driller Clifford Kippen

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6933			12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	—	8	550.82	STAB 6.03

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾"	429.48		

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
				14"		6¾
				18"		6¼

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	4	12	8

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 ..... Approved by .....

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 86

I.O.E. STONY | I-50-67-30-135-15 | LSD | SEC | TWN | RGE | W | Contractor I.O.E. NAT. #3 | Type Rig NAT. 100 | Month MARCH | Day 5 | 19 64

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6920	6933	13	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	/	8	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	424.48	172M	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
66	MH2	9¹³	7⁰⁰ AM	9¾	6933	17-25	19	

Bit Serial No. 775361 Table R.P.M. 110-60

Jet or Conventional - CONV. Nozzle Size

SURVEYS

Kind TOTCO at 6930 Ft. 1½ 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
7¼		1600	14	69	6¾ 6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12⁰⁰	123	9.9			Water
2⁰⁰	120	9.9			GEL
4⁰⁰	122	9.9		10.5	
6⁰⁰	136	9.8			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12⁰⁰	7⁰⁰	7
SURVEY - CIRCULATE	7⁰⁰	7³⁰	½
PULL OUT	7³⁰	8⁰⁰	½
			8

Driller Hoekstra

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

From	To	Hole Made	Hole Size	Formation
6933			12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	-	8	550.92	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	424.48	172M.	52M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
66	MH2							

Bit Serial No. 775361 Table R.P.M.

Jet or Conventional - Conv. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6 3/4	1/2	1575	14" 15"	68	6¾ 6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10⁰⁰	156				
11³⁰	126	9.9	6.1	10.3	
1⁰⁰	125				
3⁰⁰	120	9.9			

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

	From	To	Hrs.
Trip out 24 stands	8⁰⁰	2³⁰	½
Trip in 24 stands	2³⁰	4¹⁵	¾
Circulating Hole	4¹⁵		
Waiting to log		4⁹⁰	¾
Service Rig.			

Driller Clifford Wiegers

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

From	To	Hole Made	Hole Size	Formation
6933	/	/	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	/	8	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	424.48	172M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
66	MH2							

Bit Serial No. 775361 Table R.P.M.

Jet or Conventional - CONV Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½	5½	1575	14" 13"	68	6¾ 6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	120	9.9		10.5	
6⁰⁰	123	9.9			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION	BIT #66	T7-B4-G0	1/8"		

	From	To	Hrs.
WAIT TO LOG	4	6³⁰	2½
CIRCULATE HOLE	6³⁰	10¹⁵	3¾
TRIP OUT TO LOG	10¹⁵	10⁴⁵	½
RIG up TO LOG	10⁴⁵	12	1¼
LOGGING			8

Driller Lee Leyshon

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 95

I.O.E. STONY LSD ..... SEC ..... TWN ..... RGE ..... W ..... Contractor I.O.E. NAT. 3 ..... Type Rig NAT. 100 ..... Month MARCH ..... Day 4 1966

1st Tour From: 12:00 Midnight To: 8:00

DEPTH

From	To	Hole Made	Hole Size	Formation
6910	—	—	8 11/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	28	550.82	58.08

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	172M	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
1RR	◇							

Bit Serial No. EC-4507 Table R.P.M.

Jet or Conventional - DIAMOND 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			1800	14	42	6¾
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7:30	200+	—	—	—	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT	CONDITION	65	TR	BRGI	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MEASURE DRILL PIPE O.K.			
PULL OUT OF HOLE	12:00	3:00	3
SERVICE RIG - CHECK B.O.P.	3:00	3:30	½
PICK UP - SERVICE CORE BBL	3:30	4:00	½
CHANGE STABILIZER RUBBER	4:00	4:15	¼
RUN IN TO CORE	4:15	6:15	2
FILL PIPE - CLEAN 3 FT	6:15	6:45	½
CIRCULATE BEFORE CORING	6:45		
* THIN HEAVY MUD		8:00	1¼
			8

Driller ..... Hockert

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6910	6914	4	8 11/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	24	550.82	58.08

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	172M	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
1RR	DIA	4:00 PM	1:00 PM	5	6914	7,10,15	4	

Bit Serial No. EC-4507 Table R.P.M. 80

Jet or Conventional - DIA. 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
		3		14"	—	6¾
	5		1250	18"	43	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:00	135	9.9		10.5	56 lbs Caustic
11:00	128			10.3	25 lbs Pelter

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6910	6914	4	2	6	Hycolog

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Coring	5:00	1:00	5
Trip out	1:00	4:00	3
			8

Driller ..... Clifford Kuipers

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6914	6920	6	12¼	SHALE-SLT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	70	—	21	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.39		
DATA	15	7"	2¾	429.48	170M	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
6G	MAL	9:15 AM				17M		

Bit Serial No. 775361 Table R.P.M. 108

~~Jet~~ or Conventional - CON. 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
	4		1550	14"	68	6¾
				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:30	120	9.8		10.5	Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECKED KELLY COCK.			
RECOVER CORE	4	4:30	½
SERVICE CORE BBL.	4:30	4:45	¼
SERVICE RIG & B.O.P	4:45	5:15	½
ADJUST BRAKES	5:15	5:30	¼
TRIP IN	5:30	8:15	2¾
FILL PIPE & CLEAN OUT 5'	8:15	8:45	½
REAMING 8 11/16 - 12¼ - 6910-14	8:45	9:15	½
DRILLING	9:15	12	2¾
			8 HRS

Driller ..... W. Loughlin

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.

I.O.E. STONY LSD. I-50-67-30-135-15 SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

Contractor I.O.E. NAT #3 Type Rig NAT 100 Month MARCH Day 3 19 66

DAILY DRILLING REPORT No. 84

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6871A	6886	12	12¼	SILT-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	2	24	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	1827.46	170M	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
64	VHHC	4:00 A.M.	6:30 A.M.	14½	6886	17M	31	

Bit Serial No. W35864 Table R.P.M. 106

Jet or Conventional - Conv Nozzle Size 3-13/14 1-1/2

SURVEYS

Kind TOTCO at 6883 Ft. 1 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	6½	1½	1575	14	68	6¾
No. 2						6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	42	9.9			Water
2:00	135	9.9			GEL
4:00	132	9.9		10.5	25 lbs. PELTEX
6:00	145	9.9			50 lbs Caustic soda

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	6:30	6½
SURVEY CIRCULATE	6:30	7:00	½
PUMP OUT 1 SINGLE-	7:00		
PULLING OUT OF HOLE		8:00	1
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
6886	6892	6	12¼"	Shale-Silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	69	2	18	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾"	1829.43	170M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
65	MAL	2:00 P.M.				17M		

Bit Serial No. 732297 Table R.P.M. 110

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
2	5	1575	14"	68	6¾
			19"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2:00	160	9.9		10.3	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Checked Kelly Cock Bit #4 Condition					
Changed Bottom single T5 B3 G1.					

	From	To	Hrs.
Trip out.	2:00	9:30	1½
Service Rig Check B.OPs.	9:30	10:00	½
Run in Drill Collars.	10:00	10:30	½
Cut 61' Drilling Line	10:30	11:00	½
Change Packing, Washpipe in swivel	11:00	12:00	1
Trip in Hole	12:00	2:00	2
Shovel Ditch Clean out 5'	2:00	2:15	¼
Drilling	2:15	4	1¾

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
6892	6910	18	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	2	DOWN	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	1829.43	170M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
65	MAL	2:00 PM	9:00 AM	7	6910	17M	24	

Bit Serial No. 732297 Table R.P.M. 108

Jet or Conventional - Conv Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7	1	1575	14	68	6¾ 6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	134	9.9		10.5	Water
7:30	123	9.9			Gel 1200 lbs
9:30	135	9.9		10.5	PELTEX 25 lbs
					CAUSTIC 50 lbs

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

	From	To	Hrs.
DRILLING	4	9:15	5¼
CIRCULATE up SAMPLE	9:15	11	1¾
TRIP OUT	11	12	1
			8

Driller Lockhart

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 E (500 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 83

I.O.E. I-50-67-30-135-15
STONY LSD SEC TWN RGE W. Contractor I.O.E. Type Rig NAT. # 3 Month MARCH Day 2 19 66

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

From	To	Hole Made	Hole Size	Formation
6835	6852	17	12 1/4	SILT-SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	28	550-82	STAB 6-05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2 3/4	429.48	170M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
63	MHN	9 45 PM				16-17		

Bit Serial No. 836223 Table R.P.M. 110
Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1575	14	68	6 3/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	110	9.9			Water
2 00	115	9.9		10.5	1800 lbs GEL
4 00	140	9.9			
6 00	128				

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 Hockey

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

From	To	Hole Made	Hole Size	Formation
6852	6855	3	12¼"	silt shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	69	1	26	550-82	STAB 6-05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2 3/4	429.48	170M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
63	MHN	9 45 PM	9 45 AM	12¼	6855	17 17	27	
64	YHWG							

Bit Serial No. 836223 35864 Table R.P.M. 110
~~Jet~~ or Conventional - Nozzle Size

Kind Toteo at 6852 Ft. 1¾° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	2 / 1	1575	14"	68	6 3/4 / 6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	116	9.9		10.5	

From Bit #63 CONDITION T5-B3-G1

	From	To	Hrs.
Drilling	7 00	9 45	1 3/4
Toteo at 6852	9 45	10 00	¼
Trip out	10 00	12 30	2½
Service Rig Check B.O.Ps	12 30	1 00	½
Trip in Hole	1 00	3 30	2½
Clean to Bottom 10'	3 30	4 00	½

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
6855	6874	19	12¼	SILT-SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	6	550-82	STAB 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2¾	429.48	170 M	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
64	YHWG	4 PM				17 18 M		

Bit Serial No. 35864 Table R.P.M. 108
~~Jet~~ or Conventional - CON. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8	2	1500	14" / 16"	68	6 3/4 / 6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 00	185	9.9		10.5	Water 300 #
9 00	118	9.9		10.5 / 10.5	
11 00	123				

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

	From	To	Hrs.
DRILLING	4	12	8

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

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

RIG NAT. III

DAILY DRILLING REPORT No. 82

1.0E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month MAR. Day 1 1966

DEPTH

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

From	To	Hole Made	Hole Size	Formation
6797	6811	14	12 1/4	SHALE + SILT

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

From	To	Hole Made	Hole Size	Formation
6811	6828	17	12 1/4	PYRITES SILT-SHALE

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

From	To	Hole Made	Hole Size	Formation
6828	6835	7	12 1/4"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	68	2	10	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429.48	169 M	52 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	69	/	23	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429.48	170 M	52 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	69	—	16	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4"	429.48	170M.	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
62	MH4	12 15 PM				15-17M 25-30M		12

Bit Serial No. 758011 Table R.P.M. 63-110

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

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
62	MH4	12 15 PM	3 00 PM	18 3/4	6828	17-35	31	12

Bit Serial No. 758011 Table R.P.M. 110-60

Jet or Conventional - CONV. Nozzle Size /

No.	Type	Time On Bottom At	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
63	MH4	9 1/2 PM	17M.		

Bit Serial No. 836223 Table R.P.M. 110

~~Jet or Conventional~~ - CONV. Nozzle Size

SURVEYS

Kind at Ft. Deg. off

Kind TOTCO at 6825 Ft. 2° Deg. off

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8		1575	14"	68	6 3/4
2				14		6 1/4

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7 1/4		1575	14	64	6 3/4

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	3	5	1575	14"	68	6 3/4
2				14"		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	200				water
2 00	110	9.8		10.5	Gel 1000#
4 00	107	9.9			
6 00	105	9.9			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	105	9.9		10 5	Water
10 00	105	9.9			50 lbs CAUSTIC SODA
12 00	115	9.9		10.5	50 lbs. PELTEX
2 00	115	9.9			1500 lbs GEL

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	120			10.3	50# Caustic
11 30	95	9.8			50# Peltex

CORING

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

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
					Bit #62 Condition T4B3G1.
					Checked Kelly Cock. O.K.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REAMING FROM 6785-6797	12 00	3 00	3
DRILLING	3 00	8 00	5
			8

	From	To	Hrs.
DRILLING	8 00	11 30	3 1/2
SERVICE RIG	11 30	11 45	1/4
DRILLING	11 45	3 00	3 1/4
CIRCULATE - SURVEY	3 00	3 30	1/2
PUMP OUT 2 SINGLES	3 30		
PULL OUT OF HOLE		4 00	1/2
			8

	From	To	Hrs.
Trip out	4 00	6 30	2 1/2
Check BOPs Service Rig	6 30	7 00	1/2
Trip in hole	7 00	9 00	2
Fill Pipe Clean to Bottom 10'	9 00	9 15	1/4
Drilling	9 15	12 00	2 3/4

Driller F. Kennemore

Driller Hockey

Driller Clifford Kippen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 81

LOE. STONY LSD. SEC. TWN. RGE. W. Contractor IMP. OIL. ENTERPR. RIG NAT. 111 Type Rig NAT. 100 Month FEB. Day 28 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6785	6787	2	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	68	-	32	550.82	58.08

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	429.48	168 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	DIA.	5⁰⁰ AM				10-13		

Bit Serial No. EC-4507 CHRISTENS, Table R.P.M. 67

~~Jet or Conventional~~ - DIAMOND 8"1/16 x 4¾ Nozzle Size

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			1350	18	46	6¼
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5⁰⁰	200				Water
6⁰⁰	160	9.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6785	6787	2	NOT CUT	5	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
BIT CONDIT. #61 T4-B3-G1			
PULL OUT TO CORE	12⁰⁰	12⁴⁵	¾
CHANGE CORROSION RINGS	12⁴⁵	1⁰⁰	¼
SERVICE RIG, CHECK BOP'S	1⁰⁰	1³⁰	½
PICK UP & SERV. CORE BBL.	1³⁰	2¹⁵	¾
RUN IN WITH CORE BBL.	2¹⁵	4³⁰	2¼
BREAK CIRC. CLEAN TO BOTTOM	4³⁰	5⁰⁰	½
CORING	5⁰⁰	8⁰⁰	3
			8

Driller F. Kosmancuk

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

From	To	Hole Made	~~Hole Size~~	Formation
6787	6795	8	8¾	SABLE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	68	/	24	550-82	58-08

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429-48	168M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
IRR	DIA.	5⁰⁰ AM				13-16		

Bit Serial No. EC-4507 Table R.P.M. 68

Jet or Conventional - ◇8"1/16 Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			1350	18	47	6¼
			1200		43	

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	140	9.7			Water
10⁰⁰	130	9.6			1000 lbs GEL
12⁰⁰	125	9.9		10.5	
2⁰⁰	128	9.9			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6785				5	HYCALOG

	From	To	Hrs.
CORING	8⁰⁰	4⁰⁰	8

Driller J. Hockey

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

From	To	Hole Made	Hole Size	Formation
6795	6797	2	8¾	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	68	-	22	550-82	5808.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	429.48	168M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
IRR 62	DIA. M44	5⁰⁰ AM	5⁵⁰ PM	13¼	6797	16.18.	M	

Bit Serial No. EC-4507 758011 Table R.P.M. 68

~~Jet or Conventional~~ - Dia. Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2¼	5	1200	14"		6¼
				18"	43	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	115	9.9		10.3	50# Caustic
1⁰⁰	120				50# Perkat

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6785	6797	12	12	5	Hycalog

	From	To	Hrs.
Coring	4⁰⁰	6¹⁵	2¼
Trip out	6¹⁵	9²⁰	3¼
Recovering Core.	9²⁰	9³⁰	½
Service Core Barrell	9³⁰	10⁰⁰	½
Service Rig Check B.O.Ps.	10⁰⁰	10¹³	¼
Trip in	10¹³	12²⁰	1¼

Driller Clifford Kilpatrick

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 C.P. Dennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

RIG NAT. III

DAILY DRILLING REPORT No. 80

10E. STONY LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month FEB. Day 27. 19 64

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6738	6747	9	12¼	SHALE + SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	68	-	15	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	166M	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
61	HHN	5 15 PM				17M		

Bit Serial No. 839018 Table R.P.M. 64-110

~~Jetting~~ Conventional - Nozzle Size 3-3/4

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
3¼		1550	14	57	7¼
			18		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	200	9.9			Water
600	127	9.9		10.5	

CORING

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

BIT CONDIT. # 60 T5-B5-G1

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	1200	1230	½
CHANGE STABIL - RUBBER	1230	100	½
SERVICE RIG CHECK BOP'S	100	130	½
CUT 67' DRLLG. LINE	130	215	¾
RUN IN	215	430	2¼
BREAK CIRC. CLEAN 11'	430		
TO BOTTOM		515	¾
DRILLING	515	800	2¾
			8

Driller F. KORMOSH

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6747	6772	25	12¼	SILT - SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	68	1	21	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	166M	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
61	MHN	5 15 AM				16-17		

Bit Serial No. 839018 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size 3¾

Kind ____ at ____ Ft. ____ Deg. off

MUD RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1550	14	57	7 1/4
	2		18		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
800	120	9.9			Water
1000	110	9.9			50 lbs CAUSTIC SODA
1200	112	9.9		10.5	50 lbs PELTEX
200	115	9.9			1200 lbs GEL

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	800	400	8

Driller J. Lockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6772	6785	13.	12¼"	silt shale.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	68	1	9	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	168M	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
61	MHN	5 15 AM	4 45 PM	16	6785	17 M	47.	

Bit Serial No. 839018 Table R.P.M. 110.

~~Jetting~~ Conventional - Nozzle Size

Kind Totco at 6780' Ft. 1/8 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
5 1/4	2 ~~3~~ 2	1450	14" 18"	57	7 1/4 6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	105	9.9		10.5	Water
600	123				1100# Gel
800	123	9.9	6.5		
915	130			10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	400	915	5¼
Circulate hole.	915	939	¼.
Totco at 6780'	920	925	¼
Pumped out one single	945		
Trip out		1200	2¼
			8

Driller Clifford Kippen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

RIG NAT. III.

DAILY DRILLING REPORT No. 79

10E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month FEB. Day 26 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6685	6701	16	12 1/4	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	67	1	1	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"	3"	121.34	DRILLING STRING / DRILL COLLARS
DATA	15	7"	2 3/4	425.58	166 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
60	M4N	3:30 AM				15-17M		

Bit Serial No. 790339 Table R.P.M. 110

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

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	5		1550	14	57	7 1/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3:30	200	9.9		10.5	Water
4:00	140	9.9			
6:00	120	9.9			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CLEAN MUD DITCH, CHECK	12:00		
BOBS + KELLY COCK		12:30	1/2
RUN IN HOLE	12:30	3:00	2 1/2
FILL PIPE CLEAN 9'			
TO BOTTOM	3:00	3:30	1/2
DRILLING	3:30	8:00	4 1/2
			8

Driller F. Kornelsen

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

From	To	Hole Made	Hole Size	Formation
6701	6726	25	12 1/4	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	67	2	6	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"	3"	121.34	DRILLING STRING / DRILL COLLARS
DATA	15	7"	2 3/4	425.58	166M / 52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
60	M4N	3:30 AM				16-17		

Bit Serial No. 790339 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size 3-3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1550	14	58	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	118	10.1		10.5	Water
10:00	125	9.9			1000 lbs GEL
12:00	123	9.9			50 lbs caustic soda
2:00	124	9.9		10.5	50 lbs. PELTEX

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

	From	To	Hrs.
DRILLING	8:00	4:00	8

Driller Hackett

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

From	To	Hole Made	Hole Size	Formation
6726	6738	12	12 1/4"	SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	68	—	24	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"	3"	121.34	DRILLING STRING / DRILL COLLARS
DATA	15	7"	2 3/4	425.58	166M / 52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
60	M4N	3:30 AM	9:30 PM	18	6738	17 M	53	

Bit Serial No. 790339 Table R.P.M. 110

~~Jet~~ Conventional - Nozzle Size

Kind Totco at 6735 Ft. 1 1/2 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
~~4~~ 1/2		1550	14"	58	7 1/4
	2		15"		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	85	9.9		10.5	Water
6:30	118		6.5		1100 # Gel
8:00	120	9.9		10.5	50 # Caustic
					50 # Peltex

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

	From	To	Hrs.
Drilling	4:00	9:30	5 1/2
Totco at 6735'	9:30	9:45	1/4
Pump out 1 single	9:45		
Trip out		12:00	2 1/4

Driller Clifford Hagen

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. ..... YES ✓ NO.....

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

RIG NAT. III

DAILY DRILLING REPORT No. 78

10E. STONY LSD ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month FEB. Day 25 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6622	6648	26	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	—	25	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429.48	166M	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
59	M4N	8:30 PM				17M		

Bit Serial No. 835504 Table R.P.M. 110

Jetex Conventional - Nozzle Size 3- 3/4

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	8		1550	14	58	7¼
No. 2				14		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	115	9.9		9.7	Water
2:00	140	9.9			Caustic 150#
4:30	160	9.9			Peltex 100#
6:00	180	9.9		10.3	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	5:45	5¾
INSTALL NEW HIGH TRANS-	5¾		
MISSION CHAIN		6¼	½
DRILLING	6¼	8:00	1¾
			8

Driller F. Kornmaier

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6648	6670	22	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	/	3	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48	166M	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
59	M4N	8:30 AM				16-17		

Bit Serial No. 835504 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size 3-7/16

Kind ..... at ..... Ft. ..... Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		1550	14	58	7¼
						6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	140	9.9		10.3	Water
10:00	140	9.9			50 lbs caustic soda
12:00	136	9.9			50 lbs. PELTEX
2:00	130	9.9		10.3	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8:00	2:00	6
ADJUST DWKS. TRANSMISSION	2:00		
LINKAGE — SERVICE RIG		3:00	1
DRILLING	3:00	4:00	1
			8

Driller Hockens

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6670	6685	15	12¼"	Shale Silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	67	1	17.	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48	161M.	521M.

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
59	M4N	4:30 PM	9:00 PM	23½	6685	17M.	12	

Bit Serial No. 835504 Table R.P.M. 110

Jetex Conventional - Nozzle Size

Kind Totco at 6680 Ft. 1° Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5	5	1550	14"	58	7¼
				16"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	118	9.9		10.5	½ Gel Quick Vis
6:00	124				
7:30	160	9.9		10.5	
9:00	155				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #59 Condition T5 B6 G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4:30	9:30	5
Totco at 6680'	9:30	9:45	¼
Trip Out	9:45	12:00	2 ¾

Driller Clifford Kippen

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

RIG NAT. III

DAILY DRILLING REPORT No. 77

I.O.E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor IMP. OIL ENTERPR. Type Rig NAT. 100 Month FEB. Day 24 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6569	6593	24	12 1/4	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	66	1	20	550.82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"	3"	121.34		
DATA	15	7"	2 3/4"	428.48	164 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
58	M4N	4 45 PM				17M		

Bit Serial No. 248841 Table R.P.M. 110

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

SURVEYS

Kind ~~FLUSH~~ 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 1/4		1550	14	58	7 1/4
No. 2	1/4		1100	18	52	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	115	9.9		10.5	Water
2 00	115	9.9			Gel 1700
4 00	109	9.9		10.5	
6 30	115	9.9			

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 F. Kommerman

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

From	To	Hole Made	Hole Size	Formation
6593	6607	14	12 1/4	SILT-SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	66	1	6	550.82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"	3"	121.34		
DATA	15	7"	2 3/4"	409.48	164 M	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
58	MH11	4 45 PM	1 00 AM	20 1/4	6607	17	65	

Bit Serial No. 8HE8H1 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size 3/4

Kind TOTCO at 6605 Ft. 1 1/4° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5 1/4		1550	14	58	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	140	9.9		10.5	Water
10 00	130	9.9			50 lbs Caustic Soda
12 00	128	9.9		11.0	50 lbs PELTEX
					800 lbs GEL

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION		58	T3 B4	G1	

	From	To	Hrs.
DRILLING	8 00	1 00	5
CIRCULATE - SURVEY	1 00	1 30	1/2
PULL OUT OF HOLE	1 30	2 00	1/2
REPAIR HIGH TRASMISSION CHAIN	2 00	2 30	1/2
PULL OUT OF HOLE	2 30	4 00	1 1/2
			8

Driller Lee Lee

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

From	To	Hole Made	Hole Size	Formation
6607	6622	15	12 1/4"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	66	2	21	550.82	STAB 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 3/4"	428.48	166M.	52M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
59	M4N	8 00 PM				17M		

Bit Serial No. 834504 Table R.P.M. 110.

~~Jet~~ 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		1550	14"	57	7 1/4
			18"		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	150	9.9			Water
10 30	115		6.2	10.5	
11 30	105	9.9			

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

Check Kelly Cock O.K.

	From	To	Hrs.
Trip out of Hole	4 00	4 45	3/4
Service Rig Check B.O.Ps.	4 45	5 15	1/2
Trip in hole	5 15		
Break, Dope. D.C. Changeover subs		7 30	2 1/4
Fill Pipe Clean to Bottom 8'	7 30	8 00	1/2
Drilling	8 00	12 00	4

Driller Clifford Kigen

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 76

JOE STONY LSD ..... SEC ..... TWN ..... RGE ..... W ..... Contractor IHP. OIL ENTERPR. Type Rig NAT. #3 NAT. 100 Month FEB Day 23. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6512	6536	24	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	2	17	550.82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾ 4 2928		164 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
57	EMI-V	11³⁰ AM				17-18M		

Bit Serial No. 199443 Table R.P.M. 107-110

Conventional - Nozzle Size 3-¾

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			1525	14	58	7¼
No. 2				14		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12⁰⁰	100	9.9	7.2	9.8	Water
2⁰⁰	110	9.9			Gel 1800#
4⁰⁰	160	9.9			Caustic 100#
6⁰⁰	155	9.9		11.0	Pelton 100#

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12⁰⁰	7⁰⁰	7
REPAIR TRANSMISSION	7⁰⁰	7³⁰	½
CABIN	7³⁰	8⁰⁰	½
DRILLING			8

Driller F. KORNEMAN

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

From	To	Hole Made	Hole Size	Formation
6536	6542	6	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	2	11	550.82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾ 4 2948		164 M	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
57	EMIV	11³⁰ AM	10⁰⁰ AM	20	6542	17-18	62	
58	MHN							

Bit Serial No. 199443 848841 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size ¾

Kind TOTCO at 6540 Ft. 1° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2¼			14	59	7½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9⁰⁰	150	9.9		11.6	
10⁰⁰	150	9.9		11.0	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
B.T CONDITION = 57 T 3 B 4 G I					

	From	To	Hrs.
DRILLING	8⁰⁰	10⁰⁰	2
SURVEY - CIRCULATE	10⁰⁰	10³⁰	½
PUMP 1 SINGLE PULL OUT	10³⁰	1³⁰	3
SERVICE RIG - B.O.P -	1³⁰		
CHANGE AIR VALVE		2¹⁵	¾
RUN IN HOLE	2¹⁵	4⁰⁰	1¾
			8

Driller Hawkins

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

From	To	Hole Made	Hole Size	Formation
6542	6569	27	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	66	—	14	550.82	STAB 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾ 4 2948		164 M	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
58	MHN	4⁴⁵ PM				17 M		

Bit Serial No. 848841 Table R.P.M. 110

Conventional - Nozzle Size

Kind ... at ... Ft. ... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½	1½ 1³⁰	1450	14½ 18"	58	7¼ 6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6³⁰	94	9.9		10.5	Water
8⁰⁰	95				1200# Gel
10⁰⁰	102	9.9		10.5	
11⁰⁰	123	9.9		10.5	

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

	From	To	Hrs.
Trip in Hole	4⁰⁰	4³⁰	½
Fill Pipe Clean 8' Fill	4³⁰	4⁴⁵	¼
Drilling	4⁴⁵	12⁰⁰	7¼

Driller Clifford Kiyan

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 15

I.O.E. SIDNEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT. #3 NAT. 100 Month FEB. Day 22 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6470	6480	10	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	—	14	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	428-48	163M	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
56	OSC	3³⁰am	3AM	2 3¼	6480	18M	77	

Bit Serial No. 9660 Table R.P.M. 110

~~Jet~~ or Conventional - CON. Nozzle Size 3-3¼

SURVEYS

Kind TOTCO at 6475 Ft. ¾ Deg. off

PUMP RECORD No. 1 / No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3	5	1500	14¹¹ / 18¹¹	59	7¼ / 6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10⁰⁰	120	9.9		10.5	Water
2⁴⁵	122	9.9		10.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
CONDITION BIT #56 T3-B5-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	3	3
CIRCULATE & TOTCO	3	3³⁰	½
Pump out 5 singles	3³⁰		
5 stands tight			
TRIP OUT		5⁴⁵	2¼
WORK ON MUD MOTOR	5⁴⁵	6¹⁵	½
TRIP OUT	6¹⁵	7³⁰	1¼
SERVICE RIG CHECK B.O.P	7³⁰	8	½

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
6480	6494	14	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	—	DOWN	550.82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	428.48	163 M	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
57	CD EMI-V	11³⁰AM				17M		

Bit Serial No. 199443 Table R.P.M. 110

~~Jet~~ Conventional - Nozzle Size 3-¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½	3½	1550	14 / 14	54	7¼ / 6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11³⁰	145	9.9		10.5	Water
12³⁰	140	9.9			Gel 1800
2⁰⁰	127	9.9			

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

	From	To	Hrs.
TRIP IN HOLE	8⁰⁰	10⁴⁵	2¾
FILL PIPE, CLEAN 11 FT.	10⁴⁵		
TO BOTTOM		11³⁰	¾
DRILLING	11³⁰	4⁰⁰	4½
			8

Driller F. Koinemon

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

From	To	Hole Made	Hole Size	Formation
6494	6512	18	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	1	12	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	428.48	164 M	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
57	EMIV	11³⁰AM				17		

Bit Serial No. 199443 Table R.P.M. 108-110

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1550	14	54	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4⁰⁰	136	9.9		10.5	Water
6⁰⁰	130	9.9			50 lbs caustic soda
8⁰⁰	130	9.9		10.5	50 lbs, PELTEX
10⁰⁰	128	9.9			

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

	From	To	Hrs.
DRILLING	4⁰⁰	6⁰⁰	2
REMOVE TABLE TORQUE ASEMBLY	6⁰⁰	8⁰⁰	2
DRILLING	8⁰⁰	12⁰⁰	4
			8

Driller Hockey

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 74

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT 100 NAT #3 Month FEB. Day 21 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6403	6418	15	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	64	1	15	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	162M	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
56	OSC	3³⁰ PM				15-18M		

Bit Serial No. 9660 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size 3-7/8

SURVEYS

Kind at Ft. Deg. off

MUDDISH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5	3	1550	14" 18"	59	7¼ 6½
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5³⁰	160	10.		10.5	PELTEX 100#
7³⁰	150	10.		10.5	CAUSTIC 100#
					Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHANGE STAND ON D. COLLARS			
THAW FROZEN AIR LINE	12		
CHECK B.O.P.		12³⁰	½
TRIP IN	12³⁰	3	2½
FILL PIPE & CHANGE CORROSION RINGS	3	3³⁰	½
DRILLING	3³⁰	8	4½
			8

Driller W. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6418	6446	28	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	64	2	17	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	163M	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
56	OSC	3³⁰ AM				18M		

Bit Serial No. 9660 Table R.P.M. 110

Jet or Conventional - Nozzle Size 3-7/8

Kind at Ft. Deg. off

MUDDISH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7¾		1550	14 18	60	7¼ 6½
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8³⁰	140	9.9		10.5	Water
10⁰⁰	120	9.9			Gel 2000
12⁰⁰	115	9.9		10.5	
2⁰⁰	123	9.9			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	8⁰⁰	11³⁰	3½
SERVICE RIG	11³⁰	11⁴⁵	¼
DRILLING	11⁴⁵	4⁰⁰	4¼
			8

Driller F. Kormoniak

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6446	6470	24	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	65	—	24	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	163M	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
56	OSC	3³⁰ PM				18M		

Bit Serial No. 9660 Table R.P.M. 108-110

Jet or Conventional - CONV. Nozzle Size 3/4

Kind at Ft. Deg. off

MUDDISH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			155	14	60	7¼
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4⁰⁰	124	9.8		10.5	Water
6⁰⁰	120	9.9			100 lbs caust. soda
8⁰⁰	122	9.9		10.0	100 lbs. PELTEX
10⁰⁰	124	9.8			100 lbs GEL

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4⁰⁰	12⁰⁰	8

Driller Hackett

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. J. Hunt Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 73

L.O.E. STONEY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Imp. Oil ENTERPRISES Type Rig NFT. #3 NFT. 100 Month FEB. Day 20 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6336	6366	30	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	63	2	7	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	4948	162	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
55	M4N	7:30 PM		-	-	16M		

Bit Serial No. 839017 Table R.P.M. 110

~~Jet~~ or Conventional - CON Nozzle Size 3-¾

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		1550	14"	58	7¼
No. 2		2		18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	115	9.9	6.8	10.5	Water
3:00	124	9.9		10.5	Gel 1000#
6:00	130	10.0			
7:30	125			10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	8	8

Driller ..... Coghill

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

From	To	Hole Made	Hole Size	Formation
6366	6394	28	12¼	SHALE + SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	64	—	10	550.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"			163	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
55	M4N	7:30 Fri				16 M		

Bit Serial No. 839017 Table R.P.M. 107

~~Jet~~ Conventional - Nozzle Size 3-¾

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		1550	14	58	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	134	9.9		10.5	Water
10:00	107	9.9			Gel 1800
12:00	125	9.9			
2:00	120	9.9		10.5	

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

	From	To	Hrs.
DRILLING	8:00	9:45	1¾
SERVICE RIG CHECK BOP.			
REPAIR AIR LEAKS ON COMPRES	9:45	10¼	½
DRILLING	10¼	4:00	5¾
			8

Driller ..... F. Konneman

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

From	To	Hole Made	Hole Size	Formation
6394	6403	9	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	64	—	DOWN	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	H29-HB	162M	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
55	M4N	7:30 AM	7:00 PM	23	6403	16M	85	

Bit Serial No. 839017 Table R.P.M. 108

Jet or Conventional Conv. Nozzle Size

Kind TOTCO at 6400 Ft. ½° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3	5	1550	14	59	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11:00	125	9.9		10.5	Water
6:00	120				600 lbs. GEL.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION 4 55 T2 B5 G I					

	From	To	Hrs.
DRILLING	4:00	7:00	3
CIRCULATE - SURVEY	7:00	7:30	½
PUMP OUT 2 SINGLES -	7:30		
PULL OUT OF HOLE		10:30	3
CHANGE STABILIZER RUBBER	10:30	11:00	½
THAW FROZEN AIR LINES	11:00	12:00	1
			8

Driller ..... Hoehn

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 12.

L.O.E. STONEY LSD. SEC. TWN. RGE. W. Contractor Imp. OIL ENTERPRISES Type Rig NAT. 3 NAT. 100 Month FEB. Day 19 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6299	6318	19	12 1/4	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	63	1	25	552-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 3/4	429-48	160M	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
54	MAN	6 15 AM	5 AM	22 1/4	6318	16M	92	

Bit Serial No. 848844 Table R.P.M. 110

Jet or Conventional - CON. Nozzle Size /

SURVEYS

Kind TOTCO at 6315 Ft. 1 1/4° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	5	3	1550	14"	58	7 1/4
No. 2		2		18"		6 1/2

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
12 30	115	9.9		10.5	Water Gel 900#
2 30	135	9.4			
5 00	130	10.0		10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	5	5
CIRCULATE & TOTCO	5	5 30	1/2
PULLED 2 STANDS	5 30		
Pump out 4 SINGLS			
WORK TIGHT HOLE.			
6048 - 5970		8	2 1/2

Driller Lee Coghill

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

From	To	Hole Made	Hole Size	Formation
6318			12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	63	1	25	552.82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2 3/4	429.48	160 M	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
55	M4N							

Bit Serial No. 839017 Table R.P.M.

Jet or Conventional - CONV. Nozzle Size 3-3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1550			6 1/4

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
~~5 00~~	~~135~~	~~10.0~~			~~Water~~
~~10 00~~	~~126~~	~~9.9~~			~~50 lbs caustic~~

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

BIT #54 T3-B4-G1

	From	To	Hrs.
PULL OUT	8 00	10 30	2 1/2
SERVICE RIG, CHECK BOPS.	10 30	11 00	1/2
RUN IN DRILL COLLARS	11 00	11 45	3/4
STRING TO 8-LINES	11 45	3 00	3/4
SLIP + CUT GT' LINE	3 00	3 30	1/2
RUN IN	3 30	4 00	1/2
			8

Driller F. Kammeman

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

From	To	Hole Made	Hole Size	Formation
6318	6336	18	12 1/4	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	63	1	7	550-82	STAB 6-05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 3/4	429-48	161M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
55	M4N	7 30 PM				15-16		

Bit Serial No. 839017 Table R.P.M. 108

Jet or Conventional - CONV. Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1550	14	59	7 1/4 6 1/2

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
8 00	135	10.0	PAPER	10.5	Water
10 00	126	9.9	BEKMAN	9.8	50 lbs. CAUSTICSODA
					50 lbs. PELTEX

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

	From	To	Hrs.
ADJUST + CHECK CROWN SAVER	4 00	4 30	1/2
RUN IN HOLE	4 30	6 00	1 1/2
FILL PIPE-CLEAN 35 FT.	6 00	7 30	1 1/2
DRILLING	7 30	12 00	4 1/2
			8

Driller Hockey

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 E. D. Wurz Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

NAT #3

DAILY DRILLING REPORT No. 71

I.O.E STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT 100 Month FEB. Day 18 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6226	6235	9	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	62	1	17	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429.48	159 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
54	MAN	6:15 pm				16M		

Bit Serial No. 848844 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size 3/4

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	2¼		1550	14"	58	7½
No. 2				18"		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7:30	115	9.9		10.5	Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #53 Condition T4-R4-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHANGE SINGLE ON D. COLLARS	12	2:45	2¾
TRIP OUT	2:45	3:15	½
SERVICE RIG CHECK B.O.P	3:15	5:45	2½
TRIP IN	5:45	6:15	½
FILL PIPE & CLEAN OUT 10'	6:15	8	1¾
DRILLING			8

Driller M. Coghill

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

From	To	Hole Made	Hole Size	Formation
6235	6270	35	12¼	Shale silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	62	2	13	550-82	Stab 6-05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429.48	159M	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
54	MAN	10:15 am				16m		

Bit Serial No. 848844 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size 3/4

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6¾		1550	14	56	7¼
	1	Ditch 360	1100	18	52	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	113	10.0		10.5	Water
10:30	125	9.9		9.7	Gel 1600
12:00	120	9.9			Caustic 100#
2:00	182	9.9			Pottex 100#

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

	From	To	Hrs.
Drilling	8:00	1:30	5½
Work on E500 change pumps	1:30	1:45	¼
Drilling	1:45	4:00	2¼
			8

Driller George McKenzie

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

From	To	Hole Made	Hole Size	Formation
6270	6299	29	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	63	—	13	550-82	STAB 6-05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429.48	160M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
54	MAN	6:15 pm				16 M		

Bit Serial No. 848844 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size —

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6½		1550	14	60	7¼
	1½		1100	18	58	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	135	10.0		PAPER	150 lbs. CAUSTIC
6:00	135	10.		11.0	150 lbs. PELTEX
8:00	134	10.0			
100	130	10.0			

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

	From	To	Hrs.
DRILLING	4:00	6:00	2
REPAIR MUD GAUGE	6:00	6:15	¼
DRILLING	6:15	12:00	5¾
			8

Driller Hockey

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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. ..... YES ✓ NO .....

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 70

L.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NAT #3 NAT 100 Month FEB. Day 17 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6162	6181	19	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	61	2	12	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	429.48	158	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
53	M4N	3:15 PM				17M		

Bit Serial No. 840200 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size 3/16

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	5½	2¾	1550	14"	58	7¼
No. 2		2		18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	125	10.		10.0	Water
700	142	10.0		10.5	Cusatic 50#
					Gel 2000#

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECK D. COLLAR SUBS	12	12:30	½
TRIP IN	12:30	2:45	2¼
FILL PIPE & CLEAN OUT 10'	2:45	3:15	½
DRILLING	3:15	8	4¾
			8

Driller McLoughlin

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

From	To	Hole Made	Hole Size	Formation
6181	6208	27	12¼	Shale Silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	62	—	14	550-82	Stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	158 m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
53	M4N	3:15 PM				17M		

Bit Serial No. 840200 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1550	14	58	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	150	10.0		10.5	Water
1000	147	10.0		10.5	Peltex 50#
1200	135	10.0		10.5	
200	140	10.0		10.5	

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

	From	To	Hrs.
Drilling	8:00	4:00	8
			8

Driller George McKenzie

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

From	To	Hole Made	Hole Size	Formation
6208	6226	18	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	62	1	26	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429.48	159M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
53	M4N	3:15	10:15	19	6226	17M	6¼	

Bit Serial No. 840200 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size —

Kind TOTCO at 6225 Ft. 1¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1550	14	60	7¼
					6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	130	10.0		10.0	150 lbs. caustic soda
600	125	10.0			water
800	125	10.0		10.5	100 lbs. PELTEX
930	130			10.5	

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

	From	To	Hrs.
DRILLING	4:00	10:15	6¼
CIRCULATE - SURVEY	10:15	10:45	½
PUMP OUT 6 SINGLES -	10:45		
PULLED 1 STAND - WORK			
THROUGH TIGHT HOLE		11:45	1
PULL OUT	11:45	12:00	¼
			8

Driller Hockey

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.D. Moore Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 69

I.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp Oil ENTERPRISES NAT #3 Type Rig NAT. 100 Month FEB. Day 16 19.66

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
6102	6127	25	12¼	SHALE-SILT

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
6127	6155	28	12¼	Shale-Silt

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
6155	6162	7	12¼	SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	61	—	5	550-82	STAB 6.05

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	61	1	7	550-82	Stab 6.05

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	61	1	DOWN	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 13/16	429-48	159 M	52 M

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 13/16	429-48	159 M	52 M

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 13/16	429-48	157M	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
52	MAN	1:15 AM				15-16M		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
52	MAN	1:15 pm				15-16M		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
52	MHN	1 15 PM	6 00	17½	6162	15-16	60	
53	MHN							

Bit Serial No. 848843 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size 3/4

Bit Serial No. 848843 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size 3/4

Bit Serial No. 848843 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size —

SURVEYS

Kind at Ft. Deg. off

Kind at Ft. Deg. off

Kind TOTCO at 6160 Ft. 1/8 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7¼	3¼	1525	14"	59	7¼
No. 2	~~7~~	3		14"		6¼

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		1525	14	59	7¼
				18		6¼

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3½		1525	14	59	7 1/4
				18		

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 30	105	9.9		10.5	Water
5 00	125	10.		10.5	Gel 1500#
7 00	132	10.		10.5	Caustic 50#
					PolTex 100#

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	143	10.1		10.5	Water
10 00	118	10.0		10.5	Gel 2000#
12 00	110	10.0			
2 30	133	10.0			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	138	10.0		10.5	water.
6 00	140	10.0			

CORING

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

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
				BIT CONDITION IN	
				52	T3 BHGI
CHECK KELLY COCK					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12	12 15	¼
FILL PIPE CLEAN OUT 25'	12 15	1 15	1
DRILLING	1 15	8	6¾
			8

	From	To	Hrs.
Drilling	8:00	4:00	8

	From	To	Hrs.
DRILLING	4 00	6 45	2¾
CIRCULATE — SURVEY	6 45	7 15	½
PUMP OUT 6 SINGLES —	7 15		
PULL OUT OF HOLE		10 30	3¼
SERVICE R.G	10 30	11 00	½
CHANGE STABILIZER RUBBER	11 00	11 30	½
RUN IN 9" O.C.	11 30	12 00	½
			8

Driller Coghill

Driller George McKenzie

Driller Herkon

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 68

I.O.E STONY LSD. SEC. TWN. RGE. W. Contractor I.O.E Type Rig C.a Tools Nat #3 Month February Day 15 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
6043	6068	25	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	60	1	4.	550-82	STAB. 6.05.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34.		
DATA	15	7"	2¾"	429-48	159M.	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
51	M4N	12:45 PM				15 M.		

Bit Serial No. 848821 Table R.P.M. 110.

~~Jet~~ or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7¾	¼	1525	14"	59	7¼
2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
200	110	9.9		10.	Water
400	115		6.3		100 # Caustic
530	120	10.			150 # Peltex
730	122	9.9		10.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit	50	Condition T4. B3. G1.			

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in hole, Pickup 3 singles	12:00	12:15	¼
Fill Pipe. Clean 15' fill	12:15	12:45	½.
Drilling	12:45	5:00	7¼.

Driller Clifford Kigan

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

From	To	Hole Made	Hole Size	Formation
6068	6094	26	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	60	2.	8	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429-48	159 M	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
51	M4N	12:45 AM				15M		

Bit Serial No. 848821 Table R.P.M. 110

~~Jet~~ or Conventional - CON Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1525	14"	59	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	105	9.9		10.5	Water
1030	105				
100	109	10.		10.5	
330	112	9.9		10.5	

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

DRILLING

From	To	Hrs.
8	4	8

Driller McLaughlin

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

From	To	Hole Made	Hole Size	Formation
6094	6102	8	12¼	Shale & Silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	60	2	Down	550-82	Stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429-48	159m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
51	M4N	12:45 AM	1:15 PM	17½	6102	15m	59	

Bit Serial No. 848821 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size ¾

Kind Tricone at 6095 Ft. 1 3/4 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2¼		1500	14	60	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	109	10.2	Tank	10.5	Water
600	107	10.2			
600	195	Ditch.			

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

	From	To	Hrs.
Drilling	4:00	6:15	2¼
Lots	6:15	6:45	½
Pumpout 5 singles	6:45		
Trip out of Hole		9:30	2¾
Service Rig	9:30	9:45	¼
Check BOP & Kelly cock	9:45	10:00	¼
Change stabilizer	10:00	10:15	¼
Trip in Hole	10:15	12:00	1¾

Driller George McKenzie

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES 2 NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1.50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 67.

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E Type Rig Co-Tools Nat #3. Month February. Day 14 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5986	6006	20	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	59	2	6.	550-82	STAB. 6.05.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429-48	158M.	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
50	M4N	2.30 PM				16-18.		

Bit Serial No. 848842 Table R.P.M. 110.

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	6¾	1¼	1500	14"	60	7¼
No. 2		1½		18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2.30	105	9.9		10.	Water
4.00	110				50# Caustic
6.00	101	9.4			50# Pellets
7.30	130			10.3	1000# Gel

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in hole	12.00	1.	1¼
Reaming out Bridges From 5880' to 5960' } Fill	1.		
Clean out 20' Fill } Pipe		2.30	1¼
Drilling	2.30	3.30	1
Thawing out airline	3.30	3.45	¼
Drilling	3.45	8.00	4¼

Driller Clifford Kriggem

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

From	To	Hole Made	Hole Size	Formation
6006	6035	29	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	60	—	8	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	42948	158M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
50	M4N	2.30 PM				18M		

Bit Serial No. 848842 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1500	14"	60	7¼
	1		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6.30	124	9.9		10.5	Water
10.30	118	9.9			Gel 400#
12.30	104	9.9		10.5	
2.30	103	9.9			

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

DRILLING

From	To	Hrs.
8	4	8

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
6035	6043	8	12¼	Shale & Silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	60	—	Down	550-82	Stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	158 m	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
50	M4N	2.30 PM	6.30	16	6043	18m	57	

Bit Serial No. 848842 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size ¾

Kind Toteo at 6038 Ft. 2¼ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½		1500	14	60	7¼
			14		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4.00	115	9.9		10.	Water
6.00	127	9.9			Gel 400#

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

	From	To	Hrs.
Drilling	4:00	6.30	2½
Circulate Hole Work Pipe	6.30	6.45	¼
Toteo	6.45	7.15	½
Trip out, pump out 3 singles	7.15	10.00	2¾
Service Rig	10.00	10.15	¼
Check Bops & Kelly cock	10.15	10.30	¼
Run in Hole	10.30	12.00	1½

Driller George McKenzie

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.B. Bennett Approved by .....

Form 34402 (300 blks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 66

I.OE STONY LSD. SEC. TWN. RGE. W. Contractor I.O.E. Type Rig Co Tools Nat #3 Month Febuary Day 13 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5928	5954	26	12 ¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	59	1	27	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 ¾	429-48	154M.	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
49	MAN	10 pm				18 M.		

Bit Serial No. 848422 Table R.P.M. 110

Jet or Conventional - Kind at Ft. Nozzle Size Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		1500	14"	61	7 ¼
No. 2		4		18"		6 ¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 15	81	9.8	7.2	10.	Water
2 00	85				1900# Gel
4 00	95	9.9			50# Caustic
6 00	125			10.5	50 Peltex
7 30	120	9.9			

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 Clifford Hippern

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

From	To	Hole Made	Hole Size	Formation
5954	5979	25	12 ¼	SHALE-SLT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	59	2	32	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 ¾	429.48	156 M	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
49	MAN	10 pm				18M		

Bit Serial No. 848822 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1500	14"	61	7½
1		1000	12"	52	1¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	120	9.9		10.5	PELTEX 100#
10 30	120	9.9			caustic 50#
12 30	110	9.9		10.5	Water
2 00	112	9.9			

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

	From	To	Hrs.
DRILLING	8	3 30	7½
SERVICE RIG	3 30	3 45	¼
DRILLING	3 45	4	¼
			8

Driller McLaghill

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

From	To	Hole Made	Hole Size	Formation
5979	5986	7	12¼	Shale-Silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	59	2	26	550-82	stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 ¾	429.48	158m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
49	MAN	10 pm	1 15	20	5986	22m	67	

Bit Serial No. 848822 Table R.P.M. 110

Jet or Conventional - Con Nozzle Size ¾

Kind Toto at 5980 Ft. 1¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2¼		1500	14	61	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	115	9.9		10.0	Water
6 00	112	9.9			

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

Bit Condition T4 B4 G1

	From	To	Hrs.
Check Kelly cock. Stay. Drilling	4 00	6 15	2¼
Work Hole Toto	6 15	6 45	½
Trip out. Pump out 5 singles	6 45	10 00	3¼
Check BOPS	10 00	10 15	¼
Run in Drill Collars	10 15	11 00	3¼
Cut Line 67 feet	11 00	11 30	½
Change Kelly Saver Sub	11 30		
Change Corrosion Rings		12 00	½
			8

Driller George McKenzie

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 65

I.O.E ST ONLY LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor I.O.E Type Rig Ca Tools Nat #3 Month Febuary Day 12 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5870	5891	21	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	58	2	24.	550-82.	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾"	429-48	156M.	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
48	M4N	9 30 PM.				17.M.		

Bit Serial No. 821778 Table R.P.M. 110

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	8		1500	14"	61	7¼
No. 2		4		15"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 15	185	9.9		10.	3200# Gel
2 00	250				100# Caustic
4 00	190	9.9	6.	10.5	100# Carbonox
6 00	260				Water
7 30	300	9.9		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	8 00	8.

Driller Clifford Higgins

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

From	To	Hole Made	Hole Size	Formation
5897	5919	22	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	58	2	2	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48	156 M	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
48	MAN	9 30 PM	[illegible]	17¾	5919	17	62	

Bit Serial No. 821778 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

Kind TOTCO at 5910 Ft. 1½ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7¼	¾	1500	14"	61	7¼
			15"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	295	9.9		10.5	Peltex 50#
10 00	225	9.9			CARBONOX 50#
12 30	295	9.9		10.5	water
2 00	165	9.8		10.5	

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

	From	To	Hrs.
DRILLING	8	3 15	7¼
TOTCO	3 15	3 30	¼
PUMPED OUT 3 SINGLES	3 30		
TRIP OUT		4	½
			8

Driller McCaskill

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

From	To	Hole Made	Hole Size	Formation
5919	5928	9	12¼	Shale & silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	59	—	24	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	12134	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48	15 7m	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
48	M4N	10 50 pm				15-17m		

Bit Serial No. 848822 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	6 Kelly	1525	14	60	7¼
Jack			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	103	9.9		10.0	Water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit Condition T 4 B 4 &1					

	From	To	Hrs.
Trip out	400	6 45	2¾
Service Rig Check Bops	6 45	7 15	½
Trip in Hole	7 15	9:30	2¼
Fill Pipe & Clean to Bottom 10'	9:30	10.00	½
Drilling	10.00	12:10	2
			8 hrs.

Driller George McLennis

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 65

I.O.E ST ONY LSD. SEC. TWN. RGE. W. Contractor I.O.E Type Rig Ca Tools Nat #3 Month Febucary Day 12 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5890	5897	27	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	58	2	24.	550-82.	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 13/16"	428-48	156M.	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
48	M4N	9:30 pm.				17 M.		

Bit Serial No. 821778 Table R.P.M. 110

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	8		1500	14"	61	7¼
No. 2		4		15"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 15	185	9.9		10.	3200 # Gel
2 00	250				100 # Caustic
4 00	190	9.9	6.	10.5	100 # Carbonox
6 00	260				Water
7 30	300	9.9		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	8 00	8.

Driller Clifford Hagan

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

From	To	Hole Made	Hole Size	Formation
5897	5919	22	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	58	2	2	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	428.48	156 M.	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
48	M4N	9 39 pm	3 [illegible]	17¾	5914	17	62	

Bit Serial No. 821778 Table R.P.M. 110

or Conventional - CON Nozzle Size

Kind TOTCO at 5910 Ft. 1½ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½	3½	1500	14"	61	7¼
			15"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	295	9.9		10.5	Baltex 50 #
10 00	225	9.9			BCARBONOX 50 #
12 30	295	9.9		10.5	water
2 00	165	9.8		10.5	

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

	From	To	Hrs.
DRILLING	8	3 15	7¼
TOTCO	3 15	3 30	¼
PUMPED OUT 3 SINGLES	3 30		
TRIP OUT		4	½
			8

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
5919	5928	9	12¼	Shaley silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	59	—	24	550-82	stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429.48	151 m	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
49	M4N	10:50 pm				15-17m		

Bit Serial No. 848822 Table R.P.M. 110

Jet or Conventional - Con Nozzle Size ¾

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	6 Kelly	1525	14	60	2¼
Tank			14		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 am	103	9.9		10.0	Water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit Condition T4 B4 G1					

	From	To	Hrs.
Trip out	4 00	6 45	2¾
Service Rig Check Bops	6 45	7 15	½
Trip in Hole	7 15	9:30	2¼
Fill Pipe & Clean to Bottom 10'	9 30	10.00	½
Drilling	10:00	12:00	2
			8 hrs.

Driller George McLennan

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. 1-50-6T-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 64

E. STANY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. Type Rig CoTools Nat #3 Month Febuary Day 11 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5828	5854	26	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	58	—	4	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4298	154M.	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
47	M4N	4.45pm				17M.		

Bit Serial No. 820855 Table R.P.M. 110

~~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	8		1500	14"	62	7¼
No. 2		1½		18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12.30	153	9.8		10.	50# Caustic
2.00	165		7.4	10.5	50# Carbonox
3.30	155	9.9			1000# Hydrogel
5.00	135			10.5	
7.30	145	9.9			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Mud was 90 sec up mud Tank Returning in ditch at 145 sec.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12.00	4.00	4.

Driller Clifford Hagen

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

From	To	Hole Made	Hole Size	Formation
5854	5857	3	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	58	—	DOWN	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4298	154m	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
47	HAN	9.45am	8.45pm	21¾	5857	17m	87	

Bit Serial No. 820855 Table R.P.M. 110

~~Jet~~ or Conventional - CON Nozzle Size —

Kind TOTCO at 5850 Ft. 2. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1500	14"	62	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.00	155	9.8		10.5	Gel 1500 #
10.00	140	9.8			water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #7 Condition Teeth 1 Bearings 2 I					

	From	To	Hrs.
DRILLING	E.	8.45	¾
TOTCO	8.45	9	¼
PUMPED OUT 10 SINGLES	9	10.30	1½
MIXING MUD & CIRCULATE	10.30	1	2½
HOLE CLEAN	1	4.45	3¾
TRIP OUT	4.45	5	¼
RECOVERED OUT			
SERVICE RIG			

Driller W. Leggett

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

From	To	Hole Made	Hole Size	Formation
5857	5870	13	12¼	Shale & lt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	58	1	21	550-82	Stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3¼	12134	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4298	156m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
48	M4N	4.30pm				17m		

Bit Serial No. 821778 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4¼	3¾	1500	14	60	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10.00	107	9.9			Water
11.30	105	9.9		10.0	

Kelly Down

Pipe Measurement 3.04 - 58/0.58

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Change stand on top drill collars					

	From	To	Hrs.
Check BOPS	4.00	4.15	¼
Work on F500 pump	4.15	5.00	¾
Trip in hole pick up 7 singles	5.00	7.45	2¾
Drill pipe clean to bottom	7.45	9.30	1¾
Drilling	9.30	12.00	2½

Driller George McKenzie

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 63

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E Type Rig NAT 100 Month FEB Day 10 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5768	5770	2	8 9/16	STAB 6.05.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	56	2	24.	550-82.	58.10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	156M.	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
1AA	Q	3:45 PM	2:00 AM	10¼	5716	11M	13.	-
15AA	M4N							

Bit Serial No. EC-4507 820855 Table R.P.M. 100

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	2	6	1300	14"	44	7¼
No. 2		1¾		18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	151	9.8			1100 lb Hydrogel
					Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
5768	5700	13	7	4	Hycalog-

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Coring	12:00	2:00	2.
Trip out with Core	2:00	4:30	2½
Recoving Core	4:30		
Laying down Inner Barrel.			
Servicing Core Barrel.		6:30	2
Change Stabilizer Rubber	6:30	7:00	½
Trip in Hole	7:00	8:00	1

Driller Clifford Tupper

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5770	5796	26	12¼	SHALE-SLT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	57	1	1	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429-48	154M	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
47	M4N	9:45 Am				10-17M		13'

Bit Serial No. 820855 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size ¾

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	7½	3¾	1500	14"	63	7½
No. 2				15"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11:00	225	9.6		10.5	Water
1:00	230	9.6		10.5	
3:30	183	9.6		10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	8	9:15	1¼
CLEANING OUT	9:15	9:45	½
REAM 8 9/16 TO 12¼ 5757-5770	9:45	11	1¼
DRILLING	11	4	5
			8

Driller W Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5796	5828	32	12¼	Shale-Silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	57	2	Down	550-82	Stab 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429-48	154M	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
47	M4N	9:45 Am				17M		

Bit Serial No. 820855 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size ¾

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		1500	14"	62	7¼
No. 2				15"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	196	9.9		10.0	Water
6:00	187	9.9		10.0	Caustic 100#
9:00	142	9.9		10.0	Carbonox 100#
10:30	182	9.9		10.0	

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 hrs

Driller George McKenzie

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 62.

I.O.E STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E. Type Rig Co Tools Mat #3. Month February Day 9 1966

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.					
From	To	Hole Made	Hole Size	Formation	
5745	5757	12.	12¼.	Shale Silt	

2nd Tour From: 8:00 a.m. To: 4:00 p.m.					
From	To	Hole Made	Hole Size	Formation	
5757	—	—	8 9/16	STAB. 6.05	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.					
From	To	Hole Made	Hole Size	Formation	
5757	5768	11	8 7/16	Stab 6.05	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	57	—	11.	550-82.	STAB. 6.05

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	56	2	38	550-82	58-10

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	56	2	27	550-82	58-10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429-48	154M.	52M.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429-48	156M	52M

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	429-48	156M	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
46	MUL	2 45	11 00	15¾	5757	17M.	65	

Bit Serial No. 711386 Table R.P.M.

Jet or Conventional - Nozzle Size 11/16.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	C-2 IST	3 45				10M		

Bit Serial No. EC 4507 - CHRIST Table R.P.M. 60

Jet or Conventional - Nozzle Size

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	C-2 PACT.	2 45 pm				17M		

Bit Serial No. EC 4507 CHRISTENSEN Table R.P.M. 100

Jet or Conventional - Nozzle Size

SURVEYS

Kind Totco at 5750 Ft. 2¼ Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

MUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	6½	1	1450	14"	63	7¼
2				18"		6¼

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

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1			1460-1200	14	48-46	7¼
2				18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 00	135	[illegible]		10.	50 # Caustic
2 30	155	9.8			
3 30	165			10.5	
5 00	166	9.8			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	135	9.8		9.5	Water
6 00	155	9.8			Caustic 50#
8 00	156	9.8			
10 00	149	9.8		9.5	

CORING

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
46 Bit Condition	T3	B4	I1		

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
5757	5768	11	—	4	Hycalog

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	4 00	4.
Circulating Hole clean	4 00	5 00	1
Totco at 5750	5 00	5 15	¼.
Trip out	5 15		
Pumped out 6 singles			
Ran in 3 singles circulated			
Pumped out 25 singles			
Trip out		8 00	2¾

Driller Clifford Kippen

	From	To	Hrs.
TRIP OUT	8	9 30	1½
SERVICE RIG & CHECK B.O.P	9 30	10	½
WORK ON CORE BBL.	10	11 45	1¾
TRIP IN	11 45	2	2¼
CLEAN & WORK TIGHT HOLE	2	3 45	1¾
CORING	3 45	4	¼
			8

Driller W Coghill

	From	To	Hrs.
CORING	4:00	12 00	8

Driller George McKenzie

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. 61

I.O.E. I-50-67-30-135-15
STONY LSD. SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT #3 Month FEB Day 8 19 66

1st Tour From: 12:00 Midnight To: 3:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
5691	5692	11	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	56	1	14	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	153M	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
45	MHN	1:00 AM	2:15	25	5692	17M	137	
46	M4L							

Bit Serial No. 836066 711386 Table R.P.M. 110
Jet or Conventional - CONV. JET Nozzle Size 11/16

SURVEYS

Kind TOTCO at 5692 Ft. 2¾ Deg. off

FLUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	2½		1450	14	65	7 1/10
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	158	9.7		10.5	water
2:00	156	9.6			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION 4 4 5 T 4 B 5 G I					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12:00	2:15	2¼
CIRCULATE - SURVEY	2:15	2:45	½
PULL OUT OF HOLE	2:45	5:00	2¼
SERVICE RIG - CHECK B.O.P.	5:00		
ADJUST BRAKES		5:45	¾
CHANGE STABILIZER RUBBER	5:45	6:15	½
RUN IN HOLE	6:15	8:00	1¾
			8

Driller Hocking

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

From	To	Hole Made	Hole Size	Formation
5692	5718	26	12¼"	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	56	2	25	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	153M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
46	M4L	8 4½ PM				17-30		

Bit Serial No. 711386 Table R.P.M. 110
Jet or ~~Conventional~~ - Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1475	14"	67	7¼
1	1½	975	15"	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	143	9.7		10.	Water
12	155		7.		50# Caustic
2:00	160				900# Hydrogel
3:00	160	9.7		10.5	

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

	From	To	Hrs.
Trip in hole	4:00	4:15	¼
Fill Pipe. Clean to Bottom	4:15	4:45	¾
Drilling	4:45	8:00	7¼

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
5718	5745	27	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	57	—	23	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	153 M	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
46	MAL	8 4½ PM				17 M		

Bit Serial No. 711386 Table R.P.M. 110
Jet or ~~Conventional~~ - JET Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1475	14"	62	7¼
2		1000	14	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:15	165	9.7			water
6:30	158	9.6		10.5	
8:30	155	9.6			
11:00	159	9.6		10.5	

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

	From	To	Hrs.
DRILLING	4	9:15	5¼
WORK ON MUD PUMP	9:15	9:30	¼
DRILLING	9:30	12.	2½
			8

Driller M 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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

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

IMPRIMIAL OIL LIMITED

DAILY DRILLING REPORT No. 60

I.O.E. I-50-67-30-135-15
STONY LSD. SEC. TWN. RGE. W. Contractor I.O.E. Type Rig WAT #3 Month FEB. Day 7 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5555	5596	41	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	55	1	20	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429.48	152M	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
45	M4N	12 00 PM				15-17		

Bit Serial No. 836066 Table R.P.M. 105-110
Jet or Conventional - CONV. Nozzle Size 3/4

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	7½		1450	14	65	7 1/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	145	9.7		10	50 lbs caustic soda
500	138	9.7			900 lbs. GEL
600	135	9.7	7.8	10.5	
700	134	9.7			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN HOLE	12 00	12 30	½
FILL PIPE - CLEAN 8FT.	12 30	1 00	½
DRILLING	1 00	8 00	7
			8

Driller Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5596	5641	45	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	55	2	5	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾"	429.48	152M.	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
45	M4N	1 30 AM				17M.		

Bit Serial No. 836066 Table R.P.M. 108
~~Jet~~ 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	8	½	1450	14"	64	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	155	9.7		10.3	Water
1000	150				50 # Caustic
1130	148	9.7			
100	155			10.5	
300	165	9.7			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8 00	11 00	3
Service Rig	11 00	11 15	¼
Drilling	11 15	4 00	4¾

Driller Clifford Kippen

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5641	5681	40	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	56	1	25	550-82	STAB 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429.48	152 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
45	M4N	1 AM				17M		

Bit Serial No. 836066 Table R.P.M. 108
~~Jet~~ or Conventional - CON 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	8		1450	14"	63	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
415	162	9.7		10.5	
630	150	9.6		10.5	water
830	153	9.6			
115	157	9.6		10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

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

I.O.E. I-30-67-30-135-15
STONY LSD. SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT. #3

DAILY DRILLING REPORT No. 59

Month FEB. Day 6 1966

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

From	To	Hole Made	Hole Size	Formation
5472	5512	40	12¼	SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	54	1	12	550-82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2¾	429.48	150M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
44	M4L	12 PM				16-17		

Bit Serial No. 753269 Table R.P.M. 110

Jet or Conventional - CONV Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1400	14	65	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	125	9.6		10.5	Water
2 00	120	9.6			1500 lbs. GEL.
4 00	120	9.6		10.5	
6 00	120	9.6			
7 00	135	9.6			

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 Hockey

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

From	To	Hole Made	Hole Size	Formation
5512	5546	34	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	54	2	9	550-82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2¾	429.48	152M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
44	M4L	12 PM				17M		

Bit Serial No. 753269 Table R.P.M. 108

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
8	1½	1450	14"	65	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	140	9.6	8.	10.5	
10 00	134				600# Hydrogel
12 00	145				Water
2 00	150			10.5	
3 30	160	9.6			

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

	From	To	Hrs.
Drilling	8 00	10 30	2½
Service Rig	10 30	10 45	¼
Drilling	10 45	3 00	4¼
Circulating up sample	3 00	3 30	½
Drilling	3 30	4 00	½

Driller Clifford Kippan

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

From	To	Hole Made	Hole Size	Formation
5546	5555	9	12¼	SHALE - SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	54	2	DOWN	550.82	STAB. 6.05

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DRILL DATA	15	7"	2¾	429.48		52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
44	M4L	12 15 pm	5 45 pm	28¾	5555	17M	145	
45	M4N							

Bit Serial No. 753269 - 83606 Table R.P.M. 108

Jet or Conventional - CON - CON Nozzle Size

Kind TOTCO at 5550 Ft. 2¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	6	1450	14"	63	7¼
			14½"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	155	9.7		10.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Condition B.J. #44 T3-B4-G1					
Change Jungle on D. Collar.					
Greased Blocks.					

	From	To	Hrs.
DRILLING	4	5 45	1¾
TOTCO	5 45	6	¼
TRIP OUT	6	8 45	2¾
CHECK B.O.P.s	8 45	9	¼
RUN IN D. COLLARS	9	9 30	½
CHECK D. COLLARS SUBS	9 30		
CHANGE CORROSION RINGS		10	½
CUT 67' OFF D. LINE	10	10 45	¾
TRIP IN	10 45	12	1¼

Driller McGaghey

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. 58

I.O.E. STONY LSD. I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT. #3 Month FEB. Day 5 1966

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 5392 / To 5410 / Hole Made 18 / Hole Size 12¼ / Formation SHALE-SILT	From 5410 / To 5427 / Hole Made 17 / Hole Size 12¼" / Formation	From 5427 / To 5472 / Hole Made 45 / Hole Size 12¼ / Formation SHALE-SILT
DRILLING STRING	Size-D.P. 4½ / Stands 53 / Singles 1 / Kelly 22 / Drill. Collar Ft. 550-82 / Core Bbl. Ft. STAB 6.05	Size-D.P. 4½" / Stands 53 / Singles 1 / Kelly 5 / Drill. Collar Ft. 550-82 / Core Bbl. Ft. STAB 6.05	Size-D.P. 4½ / Stands 54 / Singles — / Kelly 22 / Drill. Collar Ft. 550-82 / Core Bbl. Ft. STAB 6.05
	DRILL COLLAR: Number 4, OD 9", ID 3", Length 121.34	DRILL COLLAR: Number 4, OD 9", ID 3", Length 121.34	DRILL COLLAR: Number 4, OD 9", ID 3", Length 121.34
	DATA: Number 15, OD 7", ID 2¾, Length 429.46	DATA: Number 15, OD 7", ID 2¾, Length 424.46	DATA: Number 15, OD 7", ID 2¼, Length 429.46
	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 149M, DRILL COLLARS 52M	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 150M, DRILL COLLARS 52M	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 150M, DRILL COLLARS 52M
BIT RECORD	No. 43 / Type IWT / Time On Bottom At 10:30 PM / Time Pulled At 4:30 AM / Total Hours Run 29¾ / Depth Pulled 5410 / Weight On Bit M. Pounds 17M / FOOTAGE Drilled 110 / Reamed	No. 44 / Type M4L / Time On Bottom At 12:30 PM / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M. Pounds 17M / FOOTAGE Drilled / Reamed	No. 44 / Type M4L / Time On Bottom At 12:15 PM / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M. Pounds 17M / FOOTAGE Drilled / Reamed
	Bit Serial No. 85549 — Table R.P.M. 110	Bit Serial No. 753269. — Table R.P.M. 110	Bit Serial No. 753269 — Table R.P.M. 110
	Jet or Conventional - CONV. — Nozzle Size —	Jet or Conventional - — Nozzle Size	Jet or Conventional - CONV — Nozzle Size —
SURVEYS	Kind TOTCO at 5410 Ft. 2 3/3° Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
PUSH PUMP RECORD No. 1 / No. 2	HOURS: On Line 5 / Circulating — ; Pump Press 1400 ; Length of Pump Stroke 14 ; Strokes Per Min. 66 ; Liner Size 7¼	HOURS: On Line 4½ / Circulating 3 ; Pump Press 1400 ; Length of Pump Stroke 14" / 18" ; Strokes Per Min. 67 ; Liner Size 7¼ / 6¼	HOURS: On Line / Circulating ; Pump Press ; Length of Pump Stroke 14 / 18" ; Strokes Per Min. ; Liner Size 7¼ / 6¼
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 12:00 / 120 / 9.6 / / 10.5 / Water. 2:00 / 118 / 9.6 / 7.6 / / 50 lbs CELLEX 4:00 / 114 / 9.6	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 1:00 / 123 / 9.5 / 7.7 / 10. / 50# Caustic 2:00 / 105 / / / / Water 3:30 / 105 / 9.6 / / 10.5	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 11:15 / 114 / 9.6 / / 10.5 / Gel 150 # 1:30 / 130 / 9.6 / / / Caustic 50 # 8:00 / 123 / 9.6 / / 10.5 / Water 10:30 / 118 / 9.6
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl. Bit #43 Condition T3.B6.G1.	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 CIRCULATE - SURVEY 4:30 / 5:00 / ½ PUMP OUT 13 SINGLES 5:00 PULL OUT OF HOLE / 8:00 / 3 8	From / To / Hrs. Trip out 8:00 / 9:00 / 1. Service Rig Check B.O.P.s 9:00 / 9:30 / ½. Trip in hole 9:30 Pick up 13 singles / 11:30 / 2. Fill Pipe. Clean 30' fill 11:30 / 12:12 / ¾. Drilling 12:12 / 4:00 / 3¾	From / To / Hrs. DRILLING 4 / 12 / 8
	Driller H. Lockhart	Driller C. Kippen	Driller M. English

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 C. Desmarais Approved by ____

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

I.O.E. I-50-67-30-135-15
STONY LSD SEC TWN RGE W.

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT. #3 Month FEB. Day 4 1966

DAILY DRILLING REPORT No. 57

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5307	5333	26	12¼	SHALE-SILT-SAND

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	52	1	12	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	148M	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
43	W7	10⁵⁵ PM				17M		

Bit Serial No. 85549 Table R.P.M. 108-112

Jet or Conventional - CONV. 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	3		1400	14	66	7¼
No. 2						6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12.00	100	9.5		10.0	1000 lbs GEL.
2.00	95	9.5			50 lbs caustic soda
4.00	108	9.6			Water
6.00	104	9.6		10.0	

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 Hockey

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

From	To	Hole Made	Hole Size	Formation
5333	5361	28'	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	52	2	13	550.82	STABILIZER 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	148M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
43	W7	10⁵⁵ PM				17M		

Bit Serial No. 85549 Table R.P.M. 105-110

~~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
	8		1400	14"	67	7¼
		1½		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.30	98	9.7	6.8	10.	900# Aquagel
10.00	97				50# Caustic
12.00	96	9.6			Water
2.00	104			10.5	
3.30	120	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	8.00	10.55	2¾
Service Rig	10.55	11.00	¼
Drilling	11.00	4.00	5

Driller Clifford Kuiper

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

From	To	Hole Made	Hole Size	Formation
5361	5392	31	12¼	SHALE-SILT-SAND

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	53	—	11	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	148	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
43	W7	10⁵⁵ PM				17M		

Bit Serial No. 85549 Table R.P.M. 108

Jet or Conventional CON Nozzle Size /

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8		1400	14"	66	7½
		2		16"		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4.30	123	9.6		10.5	Gel 900#
6.00	110	9.7		10.5	Water
8.30	105	9.6			
10.00	125	9.6		10.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4	7.15	3¼
THAW OUT AIR LINE	7.15	7.30	¼
DRILLING	7.30	12	4½
			8

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 ..... Approved by .....

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

L.O.E. I-50-67-30-135-15
STONY LSD. SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 5 & 6

Contractor T.O.E. Type Rig NAT "3 Month FEB. Day 3 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5258	5282	24	12¼	SAND-SILT-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	52	—	31	550-82	REAMER 5-2H

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	148M	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
42	YHING	7 38 PM				17-18		

Bit Serial No. D31051 Table R.P.M. 108

Jet or Conventional - CONV. Nozzle Size —

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circ.	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7 1/2		1300	14	65	7¼
No. 2	1/2		800	18	64	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	130	9.7		10	Water
2 00	130	9.7			
4 00	128	9.7		10.0	
6 00	120	9.7			

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 Hooker

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

From	To	Hole Made	Hole Size	Formation
5282	5300	18	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	52	—	13	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾"	424.48	148 M.	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
42	YHING	7 30 PM	2 45 PM	19¼	5300	14 M	53	

Bit Serial No. D-31051 Table R.P.M. 105

Jet or Conventional - Nozzle Size

Kind Totco at 5299 Ft. 2 3/4 Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5 3/4	1	1300	14 11	64	7¼
	1		800	18"	55	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	105	9.6		10.	50# Caustic
10 00	100				Water
11 30	105				
2 00	107	9.6		10.5	

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

	From	To	Hrs.
Drilling	8 00	2 45	6¾
Totco at 5299'	2 45	3 00	¼
Tripping	3 00		
Bridge at 5050' Pumped		4 00	1
out 2 singles			

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
5300	5307	7	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	52	—	7	550-82	STAB. 6.05

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121.34		
DATA	15	7"	2¾	424.48	148 M	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
43	W7	10 15 PM				17 M		

Bit Serial No. 8549 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size —

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2	6	1350	14"	63	7¼
				18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11 00	100	9.5		10.5	Water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
#42 BIT CONDITION T4-B3-G1					

	From	To	Hrs.
TRIP OUT	4	6 30	2½
SERVICE RIG & CHECK B.O.P	6 30	7	½
CHANGE REAMER TO STABILIZER	7	7 30	½
TRIP IN	7 30	9 45	2¼
FILL PIPE & CLEAN OUT	9 45	10 15	½
DRILLING	10 15	12	1¾
			8 HRS

Driller Lu 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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ 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. 54

TOE STONY I-50-67-30-135-15 LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor I.O.E. Type Rig NAT #3 Month FEB Day 2 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5216	5240	24	12¼	SAND-SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	51	1	13	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4294S	1H7M	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
41	W7	5 30 PM				16-18		

Bit Serial No. E5575 Table R.P.M. 60-110

Jet or Conventional - CONV. 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	8 00		1350	14	64	7¼
No. 2				15		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	108	9.6			Water
2 00	106	9.6		9.5	50 lbs. Caustic soda
4 00	107	9.6			800 lbs Gel.
6 00	104	9.6			

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 Hocken

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

From	To	Hole Made	Hole Size	Formation
5240	5241	1	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	51	1	6	550-82	Reamer 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4294S	145M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
41	W7	3 30 PM	10 15 PM	16¾	5247	11M	53	
42	YHWG							

Bit Serial No. E5575-D31051 Table R.P.M. 110

Jet or Conventional - Nozzle Size

Kind Totco at 5245 Ft. 2 3/4 Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5	4	1600	14	22	7¼
				15	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	115	9.6		9.5	
10 00	102				
11 30	120				

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #41 Condition T4 B4 G1			Check Kelly Cock.		

	From	To	Hrs.
Drilling	8 00	10 15	2¼
Circulating, Totco at 5246	10 15	10 45	½
Layed down 6 singles	10 45		
(pumped out) Hole still tight.		11 30	¾
Circulate Hole clean	11 30	12 30	1
Pumped out 1 single, Trip out.	12 30	2 45	2¼
Service Rig Check B.OPs.	2 45	3 15	½
Trip in Hole	3 15	4 00	¾

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
5247	5258	11	12¼	SAND-SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	51	2	25	550.82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	4294S	148M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
42	YHWG	5 30 PM				16-20M		

Bit Serial No. D31051 Table R.P.M. 110

Jet or Conventional - CON. Nozzle Size —

Kind ____ at ____ Ft. ____ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6½	1½	1300	14	44	7 6/8
		3		18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7 00	85	9.6		9.5	1000 lbs. Gel
9 00	130	9.6		9.5	100 lbs Caustic soda
11 00	130	9.6			

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

	From	To	Hrs.
TRIP IN	4	5 30	1½
CLEANING OUT	5 30	7 30	2
DRILLING	7 30	12	4½
			8 HRS

Driller W. Leggett

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

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67 30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 5 of

LSD. E Stony SEC. TWN. RGE. W. Contractor Imp. Oil Enterprises Type Rig NAT 100 (Rig #3 Month Feb Day 1 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5192	5194	2	12¼	Sand + Silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	51	—	29	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7	2¾	429-48	148M	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
40	M4J	2:30pm	11:00am	11¼	5194	18	53	
41	W7							

Bit Serial No. 467506 - 855575 Table R.P.M. 108

Jet or Conventional - Conv. Nozzle Size 11/16

SURVEYS

Kind Totco at 5194 Ft. 2½ Deg. off

PUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1			1350	14	64	7¼
2				14		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	82	9.6		9.0	Water
					Cumatex 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #41		TBG			
		44			

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12:00	1:15	1¼
Totco @ 5194	1:15	1:30	¼
Trip out of Hole	1:30	3:45	2¼
Service rig check BOP	3:45	4:15	½
Trip in hole	4:15	5:30	1¼
Hit Bridge @ 4882	5:30		
Drilled Bridge From 4882 to 4892 Light Work Pipe		8:00	

Driller Jim Kerbs

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

From	To	Hole Made	Hole Size	Formation
5194	5194	—	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	50	2	15	550-82	5-24 REAMED

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	148M	52M

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

Bit Serial No. 855575 Table R.P.M.

Jet or Conventional - Conv. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	Compounded	1600	14	28	7¼
			18	52	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	100			9.5	Water
2:00	140	9.6			1gal Quick V15

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

	From	To	Hrs.
DRILL-OUT BRIDGES	8:00		
WORK TIGHT HOLE		3:30	7½
#5192-5179	3:30	4:00	½
CLEAN ISFT			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
5194	5216	20	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	51	—	4	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	148M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
41	W7	5:30pm				30-18		

Bit Serial No. 855575 Table R.P.M. 60-108

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
5½	Cam 2½	1600-1350	14"	64-28	7¼
			18"	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	115	9.6		9.5	Water
6:30	128		7.5		1200# Aquagel
8:00	121	9.6			50# Cellex
10:00	126				
11:30	135	9.6			

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

	From	To	Hrs.
Clean to Bottom.	4:00	5:30	1½
Drilling	5:30	12:00	6½

Driller Clifford Kippan

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-13S-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 52

I.D.E. Stony LSD SEC TWN RGE W Contractor Imp. Oil Enterprises Type Rig NR Tidc (Rig #3) Month JAN Day 31 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5146	5161	15	12 1/4	Silt+shale.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	50	—	Conn	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 3/4	424-48	146	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
39	W7	5:15 PM	6:30 PM	25 1/4	5161	15M	62	

Bit Serial No. 52722 Table R.P.M. 108

Jet or Conventional - Nozzle Size

SURVEYS

Kind Tutco at 5160 Ft. 2° 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
6 1/2	1 1/4	1325	14"	65	7 1/4
			18"		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	85	9.6	7.6	10.5	Water
2 00	79	9.6			Gel 1600#
4 00	102	9.6		10.5	
6 00	98	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	6 30	6 1/2
Tutco @ 5160 2°	6 30	6 45	1/4
Trip out of Hole.	6 45	8 00	1 1/4

Driller Tim Kerbs

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

From	To	Hole Made	Hole Size	Formation
5161	5167	6	12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	50	2	25	550-82	Reamer 5-42

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2 3/4	429-48	147	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
40	MH	2 PM				15-17		

Bit Serial No. 467806 Table R.P.M. 108

Jet or Conventional - JET Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2	6	1325	14	65	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3 00	95	9.6			

BIT CONDITION #39 T5 B5 GI

CHECK KELLY COCK	From	To	Hrs.
PULL OUT OF HOLE	8 00	9 00	1
CHANGE BODY REAMER PINS	9 00	9 45	3/4
CHECK JTS. ON CHANGE OVER SUBS	9 45	10 30	3/4
SERVICE RIG - B.O.P	10 30	11 00	1/2
CHANGE CORROSION RINGS	11 00	11 30	1/2
RUN IN HOLE	11 30	1 15	1 3/4
FILL PIPE - CLEAN 10FT	1 15	2 00	3/4
DRILLING	2 00	4 00	2
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
5167	5192	25	12 1/4"	Silt+shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	51	—	30.	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	14	7"	2 3/4	424-48	148 M.	52M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
40	MH	2 PM				17-19		

Bit Serial No. 467806 Table R.P.M. 108

Jet or ~~Conventional~~ - Nozzle Size 11/16.

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 1/2		1350	14"	64	7 1/4
3 1/2		850	14"	54	6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 00	85	9.7	7.8	9.5	Water
7 00	81				1500# Aquagel
8 30	78	9.7			
10 00	86				
1 30	87	9.6		9.5	

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

	From	To	Hrs.
Drilling	4 00	12 00	8.

Driller Cliff Kippen

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. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ✓ NO

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67,35-18

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 51

I.D.E. Stony | LSD | SEC | TWN | RGE | W | Contractor Imp Oil Enterprises | Type Rig NATCO RIG #3 | Month JAN | Day 30 | 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5099	5106	7	12¼	Sand+Shale+Gravel

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	50	—	25	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	12	7	2¾	429.48	146M	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
39	WT	5 AM				12-15		

Bit Serial No. 52722 — Table R.P.M. 105

Jet or Conventional - Conv. — 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	3½	3½	1300	14"	64	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 30	140	9.5			Water
6 00	93	9.6		9.0	Caustic 50#
7 00	82	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip out of hole	12 00	12 30	½
Service rig check BOPS.	12 30	1 00	½
Reaming D.C.	1 00	2 00	1
Cut off 67' of drilling line	2 00		
Pick up 2 odd joints D.C.		3 15	1¼
Trip in hole	3 15	4 30	1¼
Fill pipe & clean 38' to Bottom	4 30	5 15	¾
DRILLING	5 15	8 00	2¾

Driller Jim Kerby

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5106	5126	20	12¼	SAND-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	50	—	5	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429.48	146M	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
39	WT	5 25 AM				15-17		

Bit Serial No. 52722 — Table R.P.M. 105-110

Jet or Conventional - Conv. — Nozzle Size

Kind — at — Ft. — Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1300	14	65	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	84	9.7			water
10 00	84	9.7			1400 lbs. GEL
12 00	82	9.7		9.5	
2 00	78	9.7			

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

	From	To	Hrs.
DRILLING	8 00	4 00	8

Driller Lockers

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5126	5146	20	12¼"	Sand+shale.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	50	1	15	550-82	Reamer 5.24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4.	9"	3"	121-34.	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	146M.	52M.

BIT RECORD

No.	Type	Time On Bottom	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	WT	5 15 AM				15M		

Bit Serial No. 52722 — Table R.P.M. 108

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
Circ. 14	14	1325	14"	64	7¼
	15-50		14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	82	9.6		9.5	
6 00	84	9.6		9.	50# Caustic
7 30	89	9.6	7.5	9.5	Water
9 30	97	9.6			
11 30	9.2	9.6		9.5	

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

	From	To	Hrs.
Drilling	4 25	12 25	8

Driller Clifford Hagan

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ✓ NO ____

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

Form 34402 (300-bl-10-64) P.P.Co. 1-50-67-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 50

1.D.E Stony LSD. 1 SEC. 50 TWN. 67 RGE. 15 W. Contractor Imp. Oil Enterprises Type Rig NAT 100 (RIG #3) Month JAN Day 29 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5062	5070	8'	12¼	Lt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	Conv.	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	147	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
38	W7					12-15		

Bit Serial No. 85576 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8	Compounded	1400	14"		7¼
8		1490	12"	52	6½

SURVEYS

PUSH PUMP RECORD
No. 1
No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12	107	9.7			Water
2⁰⁰	80	9.6		9.0	Gel 1600#
4⁰⁰	89	9.6		9.5	Caustic 50#
6⁰⁰	116	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling out 4860' pick up Hole would CAVE IN Redrilling 5' down	12⁰⁰		
Drilling out 4970 - Clean out 65' fill		6⁰⁰	6
DRILLING	6⁰⁰	8⁰⁰	2
			8

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
5070	5088	18	12¼	SAND-SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	2	12	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	146M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	W7	6²⁰ AM				15-18		

Bit Serial No. 85576 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	Compounded	1400	14		7¼
7		400	14	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	93	9.6			Water
10⁰⁰	105	9.6			
12⁰⁰	100	9.6		9.5	
2⁰⁰	98	9.6			

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

	From	To	Hrs.
DRILLING	8⁰⁰	11⁰⁰	8

Driller Hockert

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

From	To	Hole Made	Hole Size	Formation
5088	5099	11	12¼"	Silt sand shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	49	2	1	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	146M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	W1	2²⁰ AM	4⁴⁵ PM	15¾	5099	18-20	37	

Bit Serial No. 85576 Table R.P.M. 110

~~Jet~~ or Conventional - Nozzle Size

Kind Totco at 5095 Ft. 2° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5 ¾	2	1300	14"	64	7¼
			14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	85	9.6	7.1	9.5	50# Caustic
6⁰⁰	84	9.6			Water
8⁰⁰	84	9.6			
9³⁰	67	9.6		9.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 38		T.D. 6411			

	From	To	Hrs.
Drilling	4⁴⁵	9⁴⁵	5 ¾
Totco at 5095 - 2°	9⁴⁵	10⁰⁰	¼
Tripping	10⁰⁵	12⁰⁰	2

Driller Clifford Kipham

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. 1-50-67-13S-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 49

1.0.E Stony LSD. SEC. TWN. RGE. W. Contractor Imp Oil Enterprises Type Rig Aardvark Rig 3 Month Jan Day 28 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5028	5044	16	12 1/4	Sand shale silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	49	1	26	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7	2 3/4	429-48	146	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
37	T2	1 00 AM				16-30		

Bit Serial No. 23462 Table R.P.M. 60-110

Jet or Conventional - Conv. Nozzle Size —

SURVEYS

Kind at Ft. Deg. off

FLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1350	14"	66	7 1/4
No. 2				18"		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1 00	120	9.6		9.5	Water
2 30	85	9.6			Gel 1600#
4 00	83	9.6		9.5	
6	89	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in hole	12 00	12 30	1/2
Fill pipe & clean out 20' To Bottom	12 30	1 00	1/2
Drilling	1 00	8 00	7

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
5044	5061	17	12 1/4	SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	49	1	9	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429-48	145M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	T2	1 30 AM				15-17		

Bit Serial No. 23462 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On-Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1350	14	65	7 1/4
2		800	18	54	6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	90	9.6			Water
10 00	85	9.6		9.5	50 lbs. Caustic soda
12 00	90	9.6			
2 00	87	9.6		9.5	

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

	From	To	Hrs.
DRILLING	8 00	1 45	5 3/4
SERVICE RIG	1 45	2 00	1/4
DRILLING	2 00	4 00	2

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
5061	5062	1	12 1/4"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	49	1	8	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429-48	146M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	T-2	1 00 AM	3 45	15 1/2	5062	15-18	34	
38	VV 7							

Bit Serial No. 23462 · 85576 · Table R.P.M. 110

—or Conventional - Nozzle Size

Kind Toteco at 5058 Ft. 1 3/4° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6			14"		7 1/4
1 1/2		800	18"	54	6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	80	9.6			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6350 ground			Bit #37 Condition T6 B4 G1		

	From	To	Hrs.
Drilling	4 00	5 00	1
Circulating To clean hole	5 00	5 30	1/2
Toteco	5 30	5 45	1/4
Tripped	5 45	10 30	4 3/4
Bridge at 4860'	10 30		
Drilling out Bridge			
4860' — Down		12 00	1 1/2

Driller Clifford Kippen

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 C. Demarest Approved by ____

Form 34402 (300-bk-10-64)-P.P.Co. 1-50-67-135-15 W5

I.D.E Stony LSD ____ SEC 1 TWN ____ RGE ____ W ____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 50

Contractor Imp. Oil Enterprises Type Rig NAT 100 (RIG #3) Month JAN Day 29 19 66

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

From	To	Hole Made	Hole Size	Formation
5062	5070	8	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	Down	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	147	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
38	W7					12-15		

Bit Serial No. 85576 Table R.P.M. 110

Jet or Conventional - C Nozzle Size

Kind ____ at ____ Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8	Compounded	1400	14"		7¼
8		1400	18"	52	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12	107	9.7			Water
2 00	80	9.6		9.0	Gel 1600#
4 00	89	9.6		9.5	Caustic 50#
6 00	116	9.6			

SURVEYS

PUSH PUMP RECORD No. 1 No. 2

MUD RECORD

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling out 4860' pick up Hole would CAVING	12 00		
Redrilling Sfe down			
Drilling out 4970 - Clean out 65' fill		6 00	6
DRILLING	6 00	8 00	2
			8

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
5070	5088	18	12¼	SAND-SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	2	12	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	1486M	5214

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	W7	6 00 AM				15-18		

Bit Serial No. 85576 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size

Kind ____ at ____ Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	Compounded	1400	14		7½
7		400	18	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	93	9.6			Water
10 00	105	9.6			
12 00	100	9.6		9.5	
2 00	94	9.6			

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

	From	To	Hrs.
DRILLING	8 00	11 00	8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
5088	5099	11	12¼	Silt, sand & shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	49	2	1	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾"	429.49	146M	5.21M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	W7	6 00 AM	4 45 PM	15¾	5099	18-30	37	

Bit Serial No. 85576 Table R.P.M. 110

~~Jet~~ Conventional - Nozzle Size

Kind Totco at 5095 Ft. 2 7/8 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5 3/4	2	1300	14"	64	7¾
			14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	85	9.6	7.1	9.5	50# Caustic
6 00	84	9.6			Water
9 00	84	9.6			
9 30	67	9.6		9.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 38 - T.B.G. 641					

	From	To	Hrs.
Drilling	4 00	9 45	5 3/4
Totco at 5095 - 2 7/8	9 45	10 00	1/4
Tripping	10 00	12 00	2.

Driller Clifford Kilpatrick

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 ____

#1 8 — 100 Cmatrix — Vis 93
1600 gel — Uplift 9.6
#2 18 — P.H. 9.5
#3 11.4 — W.L. 7.1

Total @ 5095 - 2 7/8"

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 49

I.O.E Stony LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp Oil Enterprises Type Rig Ajax J(100) Rig # 3 Month Jan Day 29 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5028	5044	16	12¼	Sand shale silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	26	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7	2¾	429-48	146	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
37	T2	1:00 AM				16-30		

Bit Serial No. 23462 Table R.P.M. 60-110

Jet or Conventional - Conv. 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			1350	14"	66	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:00	120	9.6		9.5	Water
2:30	85	9.6			Gel 1600#
4:00	83	9.6		9.5	
6	89	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in hole	12:00	12:30	½
Fill pipe & cleanout 20' To Bott	12:30	1:00	½
Drilling	1:00	8:00	7

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
5044	5061	17	12¼	SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	9	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	145M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	T2	12 AM				15-17		

Bit Serial No. 23462 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size 3/4

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1350	14	65	7¼
2		800	18	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	90	9.6			Water
10:00	85	9.6		9.5	56 lbs. CAUSTIC SODA
12:00	90	9.6			
2:00	87	9.6		9.5	

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

	From	To	Hrs.
DRILLING	8:00	1:45	5¾
SERVICE RIG	1:45	2:00	¼
DRILLING	2:00	4:00	2
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
5061	5062	1	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	8	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	146M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	T-2	1 PM	5 PM	15½	5062	15-18	34	
38	VV1							

Bit Serial No. 23467 - 855576 Table R.P.M. 110

Jet or Conventional - Nozzle Size

Kind Totco at 5058 Ft. 1¾° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
½			14"		7¼
1½		800	16"	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	80	9.6			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
5350 surv			Bit # 37 Condition T6 B4 G1.		

	From	To	Hrs.
Drilling	4:00	5:00	1
Circulating To clean hole	5:00	5:30	½
Totco	5:30	5:45	¼
Surveying	5:45	10:30	4¾
Bridge at 4860'	10:30		
Drilling out Bridge 4860' - Down		12:00	1½

Driller Clifford Kippen

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 .....

1-16 Gel 1600

2-17 Caustic 50.16s

3-1

4-5 4-7

4-6 Hyflo

PH 9.5 Soda Ash

5070

26

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I.D.E. Stony LSD..... SEC..... TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor Imp Oil Enterprises Type Rig NAT (100) NATE3 Month JAN Day 27 19 64

DAILY DRILLING REPORT No. 48

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4991	4999	8	12¼	Sand stone + Quartz

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	48	2	10	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7	2¾	429-48	145 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
36	W7	4³⁰ PM				15-25		

Bit Serial No. 85534 Table R.P.M. 60-110

Jet or Conventional - Conv Nozzle Size

SURVEYS

Kind ... at ... Ft. ... Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	2	connected	1350	14		7¼
2	7½		800	18	53	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	85	9.7			Water
300	70	9.6		9.5	Gel 2.000 #
500	76	9.6			Cellex 50 #
700	79	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Trip in Hole	12⁰⁰	12⁴⁰	½
Fill pipe & drill out tracky @ 4943 Could not make connection	12³⁰	4³⁰	4
Drilling	4³⁰	8⁰⁰	3½

Driller Jim Kerbis

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4999	5019	20	12¼	SANDSTONE-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	49	1	21	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	144 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
36	W7	4³⁰ PM				15-16		

Bit Serial No. 8553H Table R.P.M. 105-110

Jet or Conventional - CONV. Nozzle Size 7/4

SURVEYS

Kind ... at ... Ft. ... Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	6		1350	14	64	7¼
2	2		800	18	53	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	95	9.6		9.5	Water
10⁰⁰	80	9.6			2100 lbs. GEL
12⁰⁰	85	9.6	6.4	9.5	
2⁰⁰	85	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING + check BOP	8⁰⁰	11⁴⁵	3¾
SERVICE RIG	11⁴⁵	12⁰⁰	¼
DRILLING	12⁰⁰	4⁰⁰	4
			8

Driller Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
5019	5028	9	12¼"	Sand, shale, silt.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	49	2	12.	550-82	Reamer 5-24.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2¾	429-48	146M	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
36	WT	4 20 PM	2 45 PM	15½	5028	16-35	37	
37	T2.							

Bit Serial No. 85534 23462 Table R.P.M. 110-60

~~Jet~~ Conventional - Nozzle Size

SURVEYS

Kind Totco at 5026 Ft. 2½° Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	4¼	3½	1325	14"	66	7¼
2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	87	9.6		9.5	Water
6⁰⁰	84				50 # Caustic Soda
8⁰⁰	89	9.6			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	Bit # 36 Condition T5 B3 G1				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4⁰⁰	8¹⁵	4¼
Totco at 5026'	8¹⁵	8³⁹	¼
Trip out	8³⁹	10³⁹	2
Trip in hole	10³⁹	12⁰⁰	1½

Driller Clifford Kippen

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 .....

Mud Add
1 - 8 4100 Gel
2 - 20 50# Cellex
3 - 9 50 Caustic

Tripping 4
Lotco 1/4
Drlg 15 1/2
Survey Rig 1/4
Cleaning & Boiler 4
24

Lotco @ 5026 2 1/4

Drlg @ 5044 - 8AM

Fuel Motors 1050 Boiler @ 350

W7-37

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 48

L.O.E. Stony LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp Oil Enterprises #3 Type Rig NAT 100 Month JAN Day 26 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4959	4971	2.	12¼	Sandstone-Quartz.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	48	1	7	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	145	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
34	VSI	2.15pm	2.30AM	10½	4970	37M	16	
35	M4L	7.30AM				25M		

Bit Serial No. 326224-753109 Table R.P.M. 60

~~Jet~~ or Conventional - Conv. Nozzle Size

Kind Totco at 4970 Ft. 2° Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1	Condemned	1500	14		7¼
No. 2	3¼		800	18	53.	6¼

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.
Drilling	12.00	1.15	1¼
Circ & wash pipe @ 1500 PSI	1.15	2.15	1
Totco @ 4970 2 7/8	2.15	2.30	¼
Trip out of hole.	2.30	4.30	2.
Service Rig Check BOPs.	4.30	5.00	½
Trip in hole	5.00	7.00	2
Fill pipe & clean out 2 Jts	7.00	7.30	½
Drilling	7.30	8.00	½

Driller James. Kerby

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4971	4988	17	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	48	2	21	550.82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	429-48	145M	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
35	M4L	7.30AM				22-15		

Bit Serial No. 753109 Table R.P.M. 60-110

Jet or Conventional - CONV. Nozzle Size 3/3½

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
			14		1¼
7¾	⑧	900	14	53	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9.00	85	9.6			Water
10.30	86	9.6			1200 lbs. GEL
12.00	100	9.6	6.2	9.5	100 lbs CAUSTIC soda.
2.00	98	9.6			

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	2¾
SERVICE RIG	10.45	11.00	¼
DRILLING	11.00	4.00	5
			8

Driller Hackey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4988	4991	3	12¼	Sandstone-Quartz.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	48	2	18'	550-82.	Reamer 5-24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3'	121-34		
DATA	15	7"	2¾	429-48	146M.	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
35	M4L	7.30AM	5.45pm	10	4991	35-35	21	
36	W7							

Bit Serial No. 753109 85534 Table R.P.M. 60

~~Jet~~ or Conventional - Nozzle Size

Kind Totco at 4990 Ft. 2° Deg. off

SURVEYS

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5				7¼
2¼		900	15'	53	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5.00	85			10.	Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Back to		TB 6 3I			

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4.00	5.45	1¾
Circ hole clean 1500 PSI	5.45	6.15	½
Totco at 4990 2°	6.15	6.30	¼.
Trip out	6.30	8.30	2.
Repairing leak on mud line	8.30	9.00	½
Changing reamer from 120'-96'	9.00	10.00	1
Trip in	10.00	11.30	1½
Reaming out key seat at 2700'	11.30	12.00	½

Driller Clifford Kippen

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED #3

DAILY DRILLING REPORT No. 47

I.O.E. STONEY LSD. SEC. TWN. RGE. W. Contractor Imp. Oil ENTERPRISES Type Rig NAT 100 Month JAN Day 25 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4936	4954	18	12 1/4	SHALE - SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	48	1	24	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	145 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
33	S6	9 pm	6:30 AM	9 1/2	4954	15 M	26	

Bit Serial No. 76138 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 3-5/8

SURVEYS

Kind TOTCO at 4950 Ft. 17/4 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	17			14		7 1/4
No. 2	6 1/2		900	18	54	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	103	9.1		9.5	Gel 800 #
3:00	95	9.6			Quick Vis 1/2 gal
5:00	115	9.7		9.5	Water

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT 33	T	B	G		
	6	2	1		

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	6:30	6 1/2
TOTCO	6:30	6:45	1/4
PUMPED OUT 2 SINGLES	6:45		
4 STAND TIGHT			
TRIP OUT		8	1 3/4

Driller [signature]

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

From	To	Hole Made	Hole Size	Formation
4954	4957	3	12 1/4	SHALE + SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	48	1	21	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	145	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
34	451	2:15 pm				15M		

Bit Serial No 326224 Table R.P.M. 110

~~Jet~~ or Conventional - Conv Nozzle Size —

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 1/4			14		7 1/4
		825	18	53	6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	130	9.7		9.5	Water
2:00	98	9.7			

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

	From	To	Hrs.
TRIP out hole	6:00	9:45	3 3/4
Service Rig check BOPs	9:45	10:15	1/2
TRIP in hole	10:15	11:45	1 1/2
Fill pipe & clean to 60'	11:45	2:15	2 1/2
Drilling	2:15	4:00	1 3/4

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
4957	4969	12	12 1/4	SANDSTONE-QUARTZ

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	48	1	9	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 3/4	429-48	145	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
34	451	2 pm				15-36		

Bit Serial No. 326224 Table R.P.M. 60

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		800	14	53	7 1/4
			19		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	96	9.6			Water
6:30	108	9.6		9.5	1200 lbs GEL
8:00	106	9.6			
10:00	115	9.6		9.5	

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

	From	To	Hrs.
DRILLING	4:00	12:00	8

Driller Hawkers

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. 1-50-67-30-136-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 46

1.0.E. STONY SD. SEC. TWN. RGE. W. Contractor Imp. Oil Enterprises #3 Type Rig NAT 100 Month JAN Day 24 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4862	4903	41	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	47	2	16	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		4948	145 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
32	EMIV	9PM				15M		

Bit Serial No. 199769 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

SURVEYS

Kind TOTCO at 4890 Ft. 2¼ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		1325	14	65	7¼
No. 2				18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12³⁰	83	9.6		9.0	Caustic 50#
2³⁰	86	9.6			Water
4⁰⁰	88	9.6		9.5	
6⁰⁰	87	9.6			
7³⁰	90	9.6		9.5	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	5	5
TOTCO @ 4890	5	5³⁰	½
DRILLING	5³⁰	8	2½
			8

Driller W. Coghill

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4903	4928	25'	12¼	Shale + silt

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	48	—	21	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		4929-48	145 M	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
32	EMIV	9PM		17	4928	15M	81	

Bit Serial No. 199769 Table R.P.M. 110

Jet or Conventional Conv. Nozzle Size

SURVEYS

Kind Totco at 4928 Ft. 2¼ Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1		1325	14	65	7¼
No. 2	6		700	18"	54	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	89	9.6		9.5	Water
10⁰⁰	86	9.6			Gel 1000#
12⁰⁰	115	9.7		9.5	Quick Vis ½ Gal
2⁰⁰	112	9.6		9.0	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING (continued)	8⁰⁰	9⁰⁰	1
change Pumps (sent worked out)	9⁰⁰	9¹⁵	¼
DRILLING	9¹⁵	2⁴⁵	5½
CIRC'd work pipe Light	2⁴⁵	3¹⁵	½
Totco @ 4928	3¹⁵	3³⁰	¼
CIRC'd work pipe	3³⁰	3⁴⁵	¼
TRIP out of hole	3⁴⁵	4⁰⁰	¼

Driller J. M. Kerbs

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4928	4936	8	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	48	1	13	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"	3"	121-34		
DATA	15	7"	2¾	4929-48	144	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
33	S6	9PM				13-15	-	

Bit Serial No. 761938 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 3 5/16

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	3½		900	18	54	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10³⁰	100	9.5		9.5	Water
					50 lbs. Caustic Soda

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION #32 T2 B2 GI					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHECK KELLY COCK			
PULL OUT OF HOLE	4⁰⁰	6⁰⁰	2
SERVICE RIG	6⁰⁰	6³⁰	½
RUN IN HOLE	6³⁰	8³⁰	2
FILL PIPE - WORK TO BTTM.	8³⁰	9⁰⁰	½
DRILLING	9⁰⁰	12⁰⁰	3
			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. I-50-67-30-135-15

IMPERIAL OIL LIMITED #3

DAILY DRILLING REPORT No. 45

I.O.E. STONEY LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Imp. Oil Enterprises Type Rig NAT 100 Month JAN Day 23 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4799	4836	37	12 1/4	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	47	—	24	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121-34		
DATA	15	7"		429-48	144	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
31	MAN	7 15 PM				16-18		

Bit Serial No. 836140 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size —

Kind TOTCO at 4829 Ft. 2° Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7		1200	14"	69	7 1/4
No. 2	1	3	625	18"	69	6 1/4

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
2 00	65	9.4		9.5	Gel 1500 #
4 00	75	9.5			Caustic 50 #
6 00	105	9.7		9.5	Water
					CELLEX 50 #

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	6	6
TOTCO @ 4829	6	6 30	1/2
DRILLING	6 30	8	1 1/2
			8 HRS

Driller M Cahill

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

From	To	Hole Made	Hole Size	Formation
4836	4847	11	12 1/4	shale + silt

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	47	—	13	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121-34		
DATA	15	7"		429-48	144	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
31	MAN	7 15 PM	12 00	14	4847	16M	74	
32	EMIV							

Bit Serial No. 836140 - 199769 Table R.P.M. 110

Jet or Conventional - Conv. Nozzle Size

Kind Totco at 4847 Ft. 2 7/8° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2 1/2		1200	14"	6.9	7 1/4
						6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	90	9.6		9.5	Water
10 00	87	9.6		9.0	

Conduction BT = 31 TA-83-G1

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Work on Air Compressor				3 3 00	4 00 1/2
Running 9" Collin change reamer				3 00	- 3 30 1/2

	From	To	Hrs.
DRILLING	8 00	8 15	1/4
Change Pumps	8 15	8 30	1/4
Drilling	8 30	9 30	1
Work Tight Hole	9 30	9 45	1/4
DRILLING	9 45	10 45	1
Work tight hole circulate + pull wiper rotate	10 45	11 45	1
Totco @ 4847 2 7/8° Pumped 3 bpts	11 45	12 00	1/4
Trip out hole.	12 00	2 30	2 1/2
Service rig check BOP	2 30	3 00	1/2

Driller Jim Kelly

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

From	To	Hole Made	Hole Size	Formation
4847	4862	15	12 1/4	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	47	1	28	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121-34		
DATA	15	7"		429-48	144	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
32	EMIV	9 30 AM				13-15		

Bit Serial No. 199769 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size 3-3/4"

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	4 1/2		1300	14	66	7 1/4
						6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	78	9.5			Water
10 00	75	9.5	6.2		50 lbs. CAUSTIC SODA
11 00	75	9.5			1200 lbs GEL

CHANGED STAND TOP OF COLLARS

	From	To	Hrs.
CHANGE REAMER-CHECK JTS. ON	4 00		
CHANGE OVER SUBS		4 30	1/2
CHANGE CORROSION RINGS	4 30	5 00	1/2
RUN IN DRILL COLLARS	5 00	5 30	1/2
CUT DRILLING LINE	5 30	6 30	1
RUN IN HOLE	6 30	7 30	1
FILL PIPE-CLEAN 25 FT.	7 30	8 30	1
WORK TIGHT HOLE	8 30	9 00	1/2
DRILLING	9 00	12 00	3
			8

Driller Hockey

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

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

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

Form 34402 (300 bks.-10-64)-P.P.Co. I-50-67-30-135-15

IMPERIAL OIL LIMITED

#3

DAILY DRILLING REPORT No. 44

O.E. SICHEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil Enterprises Type Rig NHT 100 Month JAN Day 22 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4711	4750	39	12¼	SHALE-SILT

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	46	—	18	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	144M	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
30	T2	5:30 pm				18m		9

Bit Serial No. 28475 Table R.P.M. 110

Jet or ~~Conventional~~ - CON 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	8		1300	14"	68	7¼
No. 2		2		18		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	65	9.6		9.0	Gel 1600#
2:00	75	9.6		9.5	Water
4:00	84	9.6			
6:00	88	9.6		9.5	
7:30	80	9.6			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	1:15	1¼
REPAIR OILER CHAIN	1:15	1:30	¼
DRILLING	1:30	8	6½
			8 HRS

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
4750	4773	23	12¼	SHALEY SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	46	1	26	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	144 M	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
30	T2	5:30 pm	12:30 pm	28½	4773	18	148	9
3c	MAN							

Bit Serial No. 28475 - 836140 Table R.P.M. 110

~~Jet~~ or Conventional - Conv. Nozzle Size

Kind Totco at 4773 Ft. 2½ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 3/4		1300	14"	69	7¼
			18"		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	75	9.6		9.0	Water
10:00	80	9.6		9.5	Caustic 50#
12	89	9.6		9.5	

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

	From	To	Hrs.
Drilling	8:00	12:45	4¾
Totco @ 4773 2½°	12:45	1:00	¼
Trip out of hole 2½°	1:00	2:00	2¼
Service Rig clear B.OPs	3:00	3:30	¼
change Head no E500	3:30	4:00	½
			8 Hrs

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
4773	4799	26	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	46	2	30	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	142M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
31	MHN	7:30 pm				14-16		

Bit Serial No. 836140 Table R.P.M. 105-110

Jet or Conventional - Conv. Nozzle Size 3 7/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			14	69	7¼
			18		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:00	85	8.6			Water
11:00	80	8.5			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION #30	T3	B6	GI		

	From	To	Hrs.
REPAIR PUMP	11:00	5:00	1
RUN IN HOLE	5:00	7:00	2
FILL PIPE-CLEAN 10FT FILL	7:00	7:15	¼
DRILLING	7:15	9:15	2
REPAIR PUMPS	9:15	9:45	½
DRILLING	9:45	12:00	2¼
			8

Driller H Hockey

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 E.L. Thurn Approved by .....

Form 34402 (300 bks.) 50-67-30-135-15-W

IMPERIAL OIL LIMITED

I.O.E. STONEY LSD..... SEC..... TWN..... RGE..... W..... Contractor Imp. Oil ENTERPRISES #3 Type Rig NAT. 100 Month JAN DAILY DRILLING REPORT No. 43 Day 21 1966

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

From	To	Hole Made	Hole Size	Formation
4625	4630	5	12¼	SHALE-SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	44	2	16	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	140M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
30	T2	5³⁰ PM				15-18		9

Bit Serial No. 28475 Table R.P.M. 110

Jet or Conventional - CON 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	5	1275	14"		7¼
No. 2		2		18"		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7⁰⁰	75	9.6		9.0	Gel 1500
					Caustic 50
					Cellex 50
					WATER

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	12	12⁴⁵	¾
RECOVER CORE REPAIR BBL	12⁴⁵	2¹⁵	1½
SERVICE RIG CHECK B.O.P	2¹⁵	2⁴⁵	½
TRIP IN	2⁴⁵	5⁰⁰	2¼
CLEANING OUT	5¹⁵	5³⁰	¼
REAMING 4616-4625-8¾"-12¼"	5³⁰	7	1½
DRILLING	7	8	1
			8 HRS

Driller McCaskill

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

From	To	Hole Made	Hole Size	Formation
4630	4673	43	12¼	SHALE SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	45	—	4	550-82	Reamer 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4			121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	140M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
30	T2	5⁰⁰ AM				16M		9

Bit Serial No. 28475 Table R.P.M. 110

Jet or Conventional - CONV Nozzle Size —

Kind ____ at ____ Ft. ____ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		1300	14"	66	7¼
			14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	92	9.6		9.5+	Water
10⁰⁰	95	9.6			
12³⁰	96	9.6			
2⁰⁰	87	9.6		9.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Shut down Fire Extinguisher					

	From	To	Hrs.
DRILLING	8⁰⁰	8¹⁵	¼
Thaw out main air line	8¹⁵	8³⁰	¼
DRILLING	8³⁰	12⁰⁰	3½
Work on F500 pump	12⁰⁰	12¹⁵	¼
DRILLING	12¹⁵	4⁰⁰	3¾
			8hr

Driller Jim Kerbs

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

From	To	Hole Made	Hole Size	Formation
4673	4711	38	12¼	SHALE-SILT

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	45	2	27	550-82	REAMER 5-24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	142M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
30	T2	5³⁰ PM				18M		

Bit Serial No. 28475 Table R.P.M. 105-110

Jet or Conventional - CONV. Nozzle Size 3-¾

Kind TOTCO at 4692 Ft. 1¾ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½			14	66	7¼
			14		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4⁰⁰	87	9.6			Water
6⁰⁰	85	9.6		9.5	500 lbs GEL
9⁰⁰	83	9.6			50 lbs caustic soda
10⁰⁰	83	9.6	8.6	9.5	

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

	From	To	Hrs.
DRILLING	4⁰⁰	10³⁰	6½
SURVEY	10³⁰	11⁰⁰	½
DRILLING	11⁰⁰	12⁰⁰	1
			8

Driller Hockey

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. I-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 42

2E STONEY LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor Imp Oil ENTERPRISES Type Rig NAT #3 NAT 100 Month JAN Day 20 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4610	4616	6	12 1/4	REAMER 5-24

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	44	2	31	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	15	7"		429.48	140.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
29	MAN	3:30 pm	2:15 am	10 3/4	4616	15-18M	45	

Bit Serial No. 752,831 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

SURVEYS

Kind TOTCO at 4615 Ft. 1 3/4 Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3		1350	14"	66	7 1/4
No. 2		5		14"		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	80	9.6		9.0	Gel 1000#
3:00	84	9.6		9.5	Caustic 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Condition Bit # 29- T4-B3-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	2:15	2 1/4
CIRCULATE TO CORE	2:15	3	3/4
TOTCO	3	3:15	1/4
WORK TIGHT HOLE	3:15	3:45	1/2
TRIP OUT	3:45	5:45	2
SERVICE RIG & CHECK B.O.P	5:45	6:15	1/2
SERVICE CORE BBL	6:15	6:30	1/4
THAW OUT & MAKE UP REAMER	6:30	7	1/2
RUN IN 9" D.C.'S	7	8	1

Driller Coghill

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

From	To	Hole Made	Hole Size	Formation
4616	4621	5	12 1/4	broken LIMESTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	43			550-82	(58-10) 2.35 REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9		121-34		
DATA	15	7"		429-48	140m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
#1	4 DIA	10:30 AM				7-9-14M		

Bit Serial No. EC4507 8 11/16" CHRISTENSEN Table R.P.M. 60-85

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
5 1/2	1	1250	14"	50	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:00	101	9.7			Water
11:00	80	9.6		9.5	
1:00	81	9.6			Gel 1000#
3:00	78	9.7			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
4616				#3	T Hycalog

	From	To	Hrs.
TRIP in hole	6:00	9:30	1 1/2
Pick up cgt. + REAM REAMER To Bottom	9:30		
CIRC before		10:30	1
Coring 8 11/16 CORE from	11:30		
4616 - 4621		4:00	5 1/2

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
4621	4625	4	8 11/16	REAMERS 5-35 5-24

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	43	1	24	550-82	58-10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	1 H M	52M

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.	10:30 AM	9:15	10 3/4	4625	15-20	9	

Bit Serial No. EC4501 Table R.P.M. 105

Jet or Conventional - 8 11/16 CHRISTENSEN Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1250	14	50	7 1/4
			18		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	78	9.6		9.5	Water
6:00	78	9.6			50 lbs Caustic soda
8:00	78	9.7	6.8	9.5	50 lbs CELFX
					500 lbs Gel

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
4616	4625	9	NOT OUT	#3	HYCALOG
		9	7		

	From	To	Hrs.
CORING	4:00	9:15	5 1/4
PUMP OUT 5 SINGLES -	9:15		
WORK TIGHT HOLE		10:15	1
PULL OUT WITH CORE BBL	10:15	12:00	1 3/4
			8

Driller Hockey

CLASSES OF TIME BREAKDOWN

UP & DRLG. OUT: 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.:

MNER. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNER. OR KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. J-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 41

I.O.E. STONEY LSD: SEC. TWN. RGE. W. Contractor Imp. Oil ENTERPRISES Type Rig NAT #3 NAT 100 Month JAN. Day 19 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4532	4562	30	12¼	SHALE-SILTSTONE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	44	—	23	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	140	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
28	VSI	830pm				15-18M		

Bit Serial No. 993098 Table R.P.M. 110

Jet or ~~Conventional~~ - JET Nozzle Size 2-9/16 1-3/4

SURVEYS

PUMP RECORD

	Kind	at	Ft.	Deg. off
No. 1				
No. 2				

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1350	14"	66	7¼
	2		18"		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	82	9.7	7.6	9.0	Gel 1500#
300	80	9.7			Caustic 50#
430	90	9.6		9.5	CelLexs 50#
600	83	9.6		9.5	WATER

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	8	8

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
4562	4572	10	12¼	Shale + Siltstone

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	44	—	13	550.82	REAMER 5:24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	15	7"		429.48	140M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
28	VSI J	930pm	1030AM	13¾	4571	16M	50	
29	M4N							

Bit Serial No. 993098 - 752831 Table R.P.M. 110

Jet or Conventional - Jet + Conv. Nozzle Size 2-9/16 1-3/4

Kind Totco at 4571 Ft. 17½° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3	1350	1350	14"	66	7¼
			18"		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8AM	74	9.7		9.5	Water
10AM	82	9.6			Gel 1000#

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

Changed Stab on Stab if D.C.

	From	To	Hrs.
Drilling	4:00	10:30	2½
Totco @ 4571 17½°	10:30	10:45	¼
Trip out of hole	10:45	12:30	1¾
Service rig & check BOPS	12:30	1:00	½
Replace REAMER cutters in side wall reamer.	1:00	2:00	1
Trip in hole	2:00	3:15	1¼
Fillpipe clean 7' to Bottom	3:15	3:20	¼
Drilling	3:30	4:00	½

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
4572	4610	38	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	44	1	6	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	140M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
29	M4N	330pm				15-18		

Bit Serial No. 752831 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1350	14	66	7¼
			18		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	82	9.6		9.5	Water
700	74	9.7			50 lbs. CELLEX
800	86	9.7	7.4	9.5	
1000	84	9.7			

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

	From	To	Hrs.
DRILLING	4:00	12:00	8

Driller Stockert

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ✓ NO ____

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

Form 34402 (300 bks.-10-64)-P.P.Co. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 40

LODESTONE LSD. SEC. TWN. RGE. W. Contractor I.O.E Type Rig Ca Tools Nat #3 Month January Day 18 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4449	4458	34.	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	43	—	7.	550-82.	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	140M	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
27	M4N	11 4th PM				12-20.		

Bit Serial No. 717101 Table R.P.M. 110

Jet or ~~Conventional~~ - Nozzle Size 5/8

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		1350	14"	66	7¼.
No. 2		3		15"		6¼.

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	87	97	7.2	9.5	Water
2 00	78	9.7			1000# Gel
4 00	76	9.7			50# Caustic.
6 00	65	9.7			
7 30	84	9.7			

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 Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
4488	4521	33	12¼	SHALE-SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	43	1	3	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	138	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
27	MAN	11 45 pm	3 15 pm	15½	4521	18-20M	73	

Bit Serial No. 717101 Table R.P.M. 110

Jet or ~~Conventional~~ - JET Nozzle ~~3-2/8~~ 5/8

Kind TOTCO at 4518 Ft. 2° Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7	1	1350	14"	66	7¼
		2		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 30	96	9.7		9.5	Gel 1000#
10 00	9.3	9.7			Caustic 50#
12 00	91	9.6		9.0	Water
3 00	86	9.7		9.5	

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

	From	To	Hrs.
DRILLING	8	3 15	7¼
Totco @ 4518 20	3 15	3 30	¼
TRIP out of hole	3 30	4 00	½

Driller W Coghill

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

From	To	Hole Made	Hole Size	Formation
4521	4532	11	12¼	SHALE & SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	43	2	23	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	136M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
28	451	8 30 pm				5 15M		

Bit Serial No. 943096 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 2 9/16 1 3/4

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	2		1350	14"	66	7¼
	7		500	18"	52.	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 00	100	9.0			Water
10 00	95	9.3			
11 00	85	9.5		9.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Coring BIT #27				T4-P4-G1	
Check Kelly Cock					

	From	To	Hrs.
TRIP out of hole	4 00	6 00	2
Service Rig check BOP's checkout	6 00	6 30	½
Service Brakes & sheaves	6 30	7 00	½
Trip in hole	7 00	8 15	1¼
Fill pipe & clean out 10'	8 15	8 30	¼
DRILLING	8 30	10 00	1½
change over to C350	10 00	10 15	¼
DRILLING	10 15	12 00	1¾

Driller Jim Kerby

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. 1-50-67-30-135-15

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 39

LOESTOCK LSD. SEC. TWN. RGE. W. Contractor I.O.E Type Rig Ca Tools Unit #3 Month January Day 17 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4399	4408	9	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	42	1	26	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429.44	138M	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
25	SV2	11 00 PM	2 45 AM	27¼	4408	20M	123	
26	MAN	4 20 PM						

Bit Serial No. 29339 716590 Table R.P.M. 110-60

Jet or Conventional - Con Jet Nozzle Size 5/8

Kind Totco at 4405 Ft. 2° Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3¾	4½	1300	14"	69	7¼
No. 2				14"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	84	9.6	7.4	9.	Water
2 00	80	9.6			50# Caustic

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	Change Bottom single Bit #25 Condition T-B-4-G1				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12 00	2 45	2¼
Totco at 4405'	2 45	3 00	¼
Trip out (4 stands tight)	3 00		
Remove corossion Rings			
Replace with new ones		5 00	2
Service Rig Check BOPs	5 00	5 30	½
Trip in	5 30	7 30	2
Clean 45' to Bottom	7 30	8 00	½

Driller Clifford Kuhlen

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

From	To	Hole Made	Hole Size	Formation
4408	4439	31	12¼	SHALE-SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	42	2	26	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	15	7"		429.48	138M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
26	MAN	8 AM				15-20M		

Bit Serial No. 716590 Table R.P.M. 120

Jet or ~~Conventional~~ JET Nozzle Size 5/8

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1300	14"	57	7¼
	3		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 30	75	9.6		9.0	Gel 1000#
12 00	83	9.6			Caustic 50#
2 00	120	9.7		9.0	Cellex 50#
					Water

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

	From	To	Hrs.
DRILLING	8	4	8

Driller Art Coghill

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

From	To	Hole Made	Hole Size	Formation
4439	4449	10	12¼	SILTstone shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	42	2	16	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429.46	140	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
26	MAN	8 00 AM	1 30 PM	10¼	4448	20M	40	
27	MAN	1145 PM				17-		

Bit Serial No. 716590 - 717101 Table R.P.M. 120

Jet or ~~Conventional~~ Jet - Jet Nozzle Size 5/8

Kind Totco at 4448 Ft. 13/4 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1350	14"	66	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	105	9.7		9.5	Water
6 00	96	9.7			

T B G
#26 Bit Condition 4 4 I

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

	From	To	Hrs.
Drilling	4 00	6 15	2¼
Totco @ 4448 - 13/4	6 15	6 30	¼
work pipe & circ	6 30	6 45	¼
Support of hole (4 stand full)	6 45	8 45	2
Change rig check BOP	8 45		
check Body Reamer.		9 15	½
TRIP in Hole	9 15	11 15	2
Fill pipe & clean 45' to Bottom	11 15	11 45	½
Drilling	11 45	12 00	¼

Driller Jim Kerbes

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 O. Dennett Approved by .....

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 38

I.O.E. STONY LSD. 1-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. Type Rig Co Tools Nat #3 Month January Day 16 1956

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4289	4327	38'	12¼"	SHALE & SILTSTONE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	41	1	17.	550-82	Reamer 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		427-48	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
25	SV2	11 PM				15M.		

Bit Serial No. 29339. Table R.P.M. 110

~~Jet~~ Conventional - Nozzle Size

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	15-50	1225	14"	70	7¼
No. 2	1			18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12³⁰	78	9.5	7.7	9.	Water
2⁰⁰	67	9.5			300# Carbonox
4⁰⁰	67	9.6		9.5	100# Caustic soda
6⁰⁰	64	9.6			
7³⁰	63	9.6			Cronox & Gels.

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12³⁰	4⁰⁰	2.

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
4327	4362	35	12¼	SHALE-SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	41	2	12	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	15	7"		4246	136M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
25	SV2	11 PM				15-20M		

Bit Serial No. 29339 Table R.P.M. 110

Jet or Conventional - Nozzle Size

Kind TOTCO at 4340 Ft. 1⅛ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	8			14"	70	7¼
	1	3		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10⁰⁰	63	9.6		9.5	2 GAL. CRONOX 235
10⁰⁰	63	9.6			GAL 1500 #
12⁰⁰	65	9.6			Carbonox 100 #
3⁰⁰	56	9.6			

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

	From	To	Hrs.
DRILLING	8	11³⁰	3½
CIRC. & WIRE LINE TOTCO	11³⁰	12	½
DRILLING	12	4	4
			8

Driller Mr Coghill

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

From	To	Hole Made	Hole Size	Formation
4362	4399	37	12¼	SHALE & SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	42	—	—	550-62	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	15	7"		429.42	136M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
25	SV2	11 PM				20-15		

Bit Serial No. 29339 Table R.P.M. 110-60

Jet or Conventional Conv. Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			1225	14"	70	7¼
				18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4⁰⁰	56	9.6		9.0	Water
6⁰⁰	70	9.6			W.L 1600 #
8⁰⁰	95	9.6		9.0	Cellex 50 #
10⁰⁰	80	9.6			Caustic 50 #
					2 Cronox

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

	From	To	Hrs.
DRILLING	4⁰⁰	12⁰⁰	8

Driller Tim Kerby

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 K Dennett Approved by .....

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 37

1-50-67-30-135-15, I.O.E. STONY LSD..... SEC..... TWN..... RGE..... W..... Contractor I.O.E Type Rig Ca Tools Nat #3 Month January Day 15 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4204	4251	53	12¼"	Shale, siltstone

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	40	2	28.	550-92.	Reamer 5.24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-49	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
24	YTIA	12 Mn.				2.0M		

Bit Serial No. E75188. Table R.P.M. 110.

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	8		1200	14"	70	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	68	9.3		9.	Water
230	64	9.5			50# Caustic soda
400	66	9.5			
600	68	9.5	8.3		
730	67	9.5		10.	4 Gals Cronox.

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Cleaning, Reaming to Bottom	12 00	1 00	1
Drilling	1 00	8 00	7.

Driller Clifford Rippon

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

From	To	Hole Made	Hole Size	Formation
4257	4285	28	12¼	SHALE - SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	40	2	DOWN	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	136M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
24	YTIA	1 AM	1 PM	12¼	4285	20M	81	

Bit Serial No. E95128 Table R.P.M. 110

or Conventional - Nozzle Size

Kind TOTCO at 4280 Ft. 1 1/2° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5	3	1150	14"	70	7¼
	2		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	67	9.5		1.5	Caustic 1000#
1000	59	9.5			Quick mix 1 gal
102	93	9.5			Alum Stearate 5#

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

	From	To	Hrs.
DRILLING	8	115	5¼
TOTCO @ 4280 1 1/2°	115	130	¼
WORK TIGHT HOLE	130		
Pump out 17 singles		330	2
TRIP OUT	330	4	½
			8

Driller Lee Eagle

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

From	To	Hole Made	Hole Size	Formation
4285	4289	4	12¼	Shale & Siltstone

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	41	—	26	550-83	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429 45	136M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
25	EV2	11 PM				10 -		

Bit Serial No. 29339 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	½) ½) confd	1300	14"	70 40	7¼
		1500	18"	52	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					2 Gal of Cronox

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

BIT #24 Condition T6 B2 G1 changed Stabilizer DC.

	From	To	Hrs.
TRIP out of hole	400	600	2
Service Rig Check B.OP	600	630	1½
Pick up Bit change & Stabilizer 90' under DC	630	815	1¾
Cut off 67' of D.L.	815	900	¾
TRIP in hole	900	1000	1
Pick up 17 singles	1000	1030	1½
CLEAN out 4 ream to Bottom	1030	1100	1½
DRILLING	1100	1200	1

Driller Jim Kerbel

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 C. Dameck Approved by .....

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

T.O.E. ST. only LSD..... SEC..... 1-50-67-30-135-15 TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor T.O.E. Type Rig Ca. Tools Nat #3 Month January Day 14 19 66

DAILY DRILLING REPORT No. 36

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

DEPTH

From	To	Hole Made	Hole Size	Formation
4093.	4141	48	12¼"	SHALE SILTSTONE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	39	1	22.	550-82.	Reamer 5.24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48.	132M	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
23	M4N	9 15 a.m.				18 M		

Bit Serial No. 765760 Table R.P.M. 110

1st or Conventional - 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	8		1200	14"	70	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	90	9.4		9.	
2 00	82	9.4			
4 00	67	9.5		9.	
6 00	64	9.5	7.2		
7 30	65	9.5			4 Gals Cronox.

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 Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
4141	4188	47	12¼	SHALE - SILT STONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	39	2	5	550.82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		12134	DRILLING STRING	DRILL COLLARS
DATA	15	7"		42948	134M	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
23	M4N	9 15am				18M		

Bit Serial No. 765760 Table R.P.M. 110-60

1st or Conventional - Con Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1200-1500	14"	70-40	7¼
1	2	1500	18"	52	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	64	9.5	7.8	8.	Gel 1000#
10 30	62	9.5			Quick Vis ½ gal
12 30	81	9.5		9.	Caustic 50#
2 30	105	9.5		9.5	Carbonox 35#
3 30	95	9.5			

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

	From	To	Hrs.
DRILLING	8	4	8

Driller McLaughlin

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

From	To	Hole Made	Hole Size	Formation
4188	4204	16	12¼	SHALED SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	40	—	20	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	134	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
23	M4N	9 15am	6 50pm	31½	4204	18-20	209	
24	VTIA							

Bit Serial No. 765760 - E95188 Table R.P.M. 110-60

Jet or Conventional - Con Nozzle Size

Kind Totco at 4204 Ft. 1½ ° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	~~compound~~	1500-1200	14"	70-40	7¼
		1500	18"	51	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	29	9.4			Water
					gal. 4 Cronox 235

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
				Bit #23 Condition T6 B5 G1	

	From	To	Hrs.
Drilling	4 00	6 00	2
Totco @ 4204 1½°	6 00	6 15	1/4
Trip out of hole Tight at 4 stds.	6 15	8 30	2¼
Servicing check BOP	8 30	8 45	1/4
Change Body Top 60° drive bit	8 45	9 45	1
Tighten Brakes	9 45	10 15	1/2
Trip in hole	10 15	11 45	1½
Fill pipe & add 4 gals Cronox	11 45	12 00	1/4

Driller Jim Kerbes

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.-10-54)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 35

I.O.E. STONY LSD. ... SEC. 1-50-67-30-135-15 TWN. ... RGE. ... W. ... Contractor I.O.E. ... Type Rig Co. Tools Nat #3 Month January Day 13 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3987	3991	10.	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	31	2	16	550-82.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	130M.	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
22	WT	9 00 AM	3 00 AM	18	3991	15 M.	53	
23	174N							

Bit Serial No. 62689 765760 Table R.P.M. 110

~~Jetter~~ Conventional - Nozzle Size

SURVEYS

Kind Totco at 3995 Ft. 1 1/3° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3		1150	14"	70	7¼
No. 2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	54	9.4		8.5	
2 00	54	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit # 22 Condition T6-B2-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CHANGE SINGLE ON DJ COLLAR			
Drilling	12 00	3 00	3.
Totco at 3995'	3 00	3 15	¼.
Pumped out & singles	3 15		
Trip out		5 30	2¼
Service Rig Check B.O.P.s.	5 30	6 –	½
Hooked up weight on Recorder	6		
Repairing oil leak on			
Pump motor.		6 30	½
Trip in	6 30	8 00	1½.

Driller Clifford Hagman

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

From	To	Hole Made	Hole Size	Formation
3997	4045	48	12¼	SHALE - SILTSTONE.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	38	1	28	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	130 M	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
23	MAN	9 15 AM				12-20M		

Bit Serial No. 765760 Table R.P.M. 80-110

Jet or Conventional - CON Nozzle Size

Kind ... at ... Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1175	14"	70	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9 30	58	9.4			5# Aluminum Stearate
11 30	54	9.4			Carbonox 50#
2 00	47	9.4		9.5	Causatic 100#
3 30	46	9.4		9.5	Water
					2.4 GAL. CRONOX 235

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

	From	To	Hrs.
TRIP IN-PICK UP 8 SINGLES	8	8 45	¾
CLEAN TO BOTTOM	8 45	9 15	½
DRILLING	9 15	11 45	2½
WORK ON WEIGHT INDICATOR	11 45	12	¼
DRILLING	12	4	4

Driller Lin Coghill

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

From	To	Hole Made	Hole Size	Formation
4045	4093	48	12¼	SHALE + SILTSTONE.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	38	2.	10	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	130m	52m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
23	MAN	9 15 AM				12-18M		

Bit Serial No. 765760 Table R.P.M. 110

Jet or Conventional - Con Nozzle Size

Kind Totco at 4073 Ft. 1 1/2° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1150	14"	70	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	42	9.3		9.0	Water
6 00	55	9.2		9.0	Gel 2000#
8 00	56	9.3			Quik V.3. 1 Gal
10 00	56	9.4		9.0	
11 30	74	9.3			2 Gals Cronox 235

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

	From	To	Hrs.
DRILLING	4 00	7 45	3¾
Work on Weight Indicator	7 45	8 00	¼
Circ before Totco	8 00	8 15	¼
Totco @ 4073 1/2°	8 15	8 45	½
DRILLING	8 45	12 00	3¼

Driller Jim Kerbs

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. ... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ... HOSE SERIAL No. ... 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. 34

I.O.E. Stany LSD 1-50-67-30-135-15 SEC ____ TWN ____ RGE ____ W ____ Contractor I.O.E. Type Rig Co Tools Mat #3 Month January Day 12 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3941	3944	3	12¼"	REAMER-5-24

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	37	—	10'	550.82.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	130M.	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
21	Mill	8 AM Feb 1	4:45 Feb 14	5¾	3944	10-40	16.	
22	WT							

Bit Serial No. 46-4289. 62689 Table R.P.M. 110-50

Jet or Conventional - Nozzle Size

SURVEYS

Kind Totco at 3942 Ft. 1 3/4° Deg. off

MUD RECORD

No. 1 / No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	4	3½	1150	14"	70	7¼
				15"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	44	9.3	8.2		Water
7:30	46	9.4			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bit #21	Condition T.6 B2 G1.				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12:00	1:45	1¾
Totco at 3942'	1:45	2:00	¼.
Pumped out 11 singles	2:00		
Trip out		3:45	2¾.
Trip in Pick up 4 singles	4:45	7:00	2¼.
Cleaning out 100 feet	7:00	8:00	1.

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
3944	3964	20	12¼	REAMER-5-24

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	37	1	18	550-82	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	130M	52M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
22	WT	9AM				15-30M		

Bit Serial No. 62689 Table R.P.M. 60-110

Jet or Conventional - CON Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4		1150	14"	70	7¼
	3		14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9:30	43	9.3			Gel 3000#
11:30	44	9.4			Quick Vis 1 gal
2:00	47	9.4			Water
3:00	82	9.4			

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

	From	To	Hrs.
CLEANING OUT	8	9	1
DRILLING	9	4	7
			8 HRS

Driller Lockhart

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

From	To	Hole Made	Hole Size	Formation
3964	3967	23	12¼	REAMER-5-24

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	37	2	26	550-82	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429-48	130	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
22	WT	9AM				15-30M		

Bit Serial No. 62689 Table R.P.M. 60-110

Jet or Conventional - Con Nozzle Size —

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1150	14"	70	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:00	66	9.3			Water
6:00	61	9.3		8.5	
8:00	55	9.3		8.0	
10:00	55	9.3	10.4	8.0	

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

	From	To	Hrs.
DRILLING	4:00	12:00	8

Driller Jim Kerbs

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

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

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

Form 3440-2 (300 bks.-10-64)-P.P.Co.

I.O.E. STONY — I-50-67-30-135-15 — LSD..... SEC..... TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT #3 Month JAN Day 11 1966

DAILY DRILLING REPORT No. 33

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3849	3894	45	12 1/4	[redacted]

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	36	2	22	550-82	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"	3	121-34		
DATA	15	7"			129M	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
20	M4L	6 45 PM				25-30		

Bit Serial No. 753514 Table R.P.M. 60

Jet or Conventional - CON. Nozzle Size

SURVEYS

Kind TOTCO at 3875 Ft. 1/3 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	7½		1150	14	70	7¼
No. 2						1 15

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	48	9.4			Water
2 00	47	9.4		9.5	Caustic Soda 50 lbs.
4 00	46	9.4	7.8		Cronox 4 GALS
6 15	46	9.4			Diesel Fuel 4 GALS

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	6 00	6
SURVEY	6 00	6 30	½
DRILLING	6 30	8 00	1½
			8

Driller Lockers

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

From	To	Hole Made	Hole Size	Formation
3894	3928	34	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	31	—	18	550-82	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121-34		
DATA	15	7"		429-43	129M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
20	M4L	6 45 PM	1 45 PM	17½	3928	28-30	113	
21	M4L						T6-B2-G1	

Bit Serial No. 753514 464287 Table R.P.M. 60

~~Jet~~ Conventional - Nozzle Size

Kind Totco at 3925' Ft. 1¾ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5 3/4	2	1150	14"	70	7¼
				18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	45	9.4		9.5	800# Hydrogel
10 00	43	9.4			
11 30	42	9.4			2 Gals Cromox
1 00	43	9.4			2 Gals Diesel

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
#20 Bit Condition T6-B2-G1					

From	To	Hrs.
Drilling	1 45	5¾
Totco at 3925'	2 00	¼
Trip out	3 30	1½
Service Rig Check BOPs	4 00	½

Driller Clifford Kasper

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

From	To	Hole Made	Hole Size	Formation
3928	3941	13	12¼	REDMER-5-24

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	37	—	11	550-82	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121-34		
DATA	15	7"		429-43	130M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
21	M4L	8 PM				13-40M		

Bit Serial No. 464287 Table R.P.M. 60-110

Jet or Convantional - CON Nozzle Size

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			1050	14" 18"	70	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	45	9.3			Cusatic 50#
10 00	45	9.3		9.0	Water
					2 GAL. CRONOX 235

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

	From	To	Hrs.
CHANGED SINGLE ON D. COLLARS	4	4 30	½
PICK UP REAMER	4 30	6 45	2¼
TRIP IN	6 45	8	1¼
CLEAN OUT WITH REAMER 75'	8	12	4
DRILLING			8 HRS

Driller A.W. Cockerill

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 C.B. Bennett Approved by .....

Form 3440-D (3M bks.-10-64)-P.P.Co.

I.O.E. I-50-67-30-135-15
STONY LSD SEC TWN RGE W

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT. #3

DAILY DRILLING REPORT No. 32

Month JAN. Day 10 19 66

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3735	3785	50	12¼	REAMER 5-24

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	35	1	15	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	128M	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
19	SV2	12 00 M				15-20		

Bit Serial No. 29287 Table R.P.M. 108

Jet or Conventional - CONV. Nozzle Size

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		1150	14	70	7¼
No. 2						6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	46	9.4			Water
2 00	45	9.4	8.4	9.0	50 lbs CAUSTIC soda
4 00	44	9.4			800 lbs. GEL
6	43	9.4		9.5	CRONOX 4 GALS
					DIESEL fuel 14 GALS

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 Hockey

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

From	To	Hole Made	Hole Size	Formation
3785	3815	30	12¼	Shale & Siltstone

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	35	2	17	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"	3"	121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"	2 7/8	429-48	128 M.	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
19	SV2	12 00 AM	1'	13	3815	15-30	80	
20	144L							

Bit Serial No. 29287 T53514 Table R.P.M. 60-110

Jet or Conventional - Nozzle Size

Kind Totco at 3810 Ft. 1¼ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5		1135	14"	70	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	44	9.5		9.5	Water
930	43	9.5			800 # Hydrogel
1130	48	9.4			50 # Cello
1230	49				2 gals Cronox
					2 gal. Diesel

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	Bit #19 Condition T-6 B 2 G I.				

Checked Kelly Cock.

	From	To	Hrs.
Drilling Totco	8 00	1'	5
Ramped out w singles	1'	1 15	¼
Trip out	1 15	3 15	2
Service Rig-Check B.O.Ps	3 15	3 43	½
Trip in	3 43	4 00	¼

Driller Clifford Hagan

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

From	To	Hole Made	Hole Size	Formation
3815	3849	34	12¼	SHALE - SILTSTONE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	36	—	7	550-82	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	130 M	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
20	MAL	6 45 PM				20-30M		

Bit Serial No. T53514 Table R.P.M. 110-60

Jet or Conventional - CON Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6¼	2¾	1150	14"	69	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					2 GAL. CRONOX 235
					Caustic 50#
7 30	48	9.4			
9 30	47	9.4			
11 00	47	9.4		9.0	

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

	From	To	Hrs.
TRIP IN	4	5 45	1¾
CLEAN OUT 120'	5 45	6 45	1
DRILLING	6 45	12	5¼
			8 HRS

Driller M. 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 ..... Approved by .....

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 31

I.O.E. STONY I-50-67-30-135-15 LSD ... SEC ... TWN ... RGE ... W ... Contractor I.O.E. Type Rig NAT. # 3 Month JAN. Day 9 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3654	3667	13	12¼	REAMER 5-24

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	34	/	16	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING
DATA	15	7"		429-48	126M

DRILL COLLARS: 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
18	YTL	5 28 AM				10-15		17

Bit Serial No. E05029 Table R.P.M. 108

Jet or Conventional - CONV. Nozzle Size

SURVEYS

Kind	at	Ft.	Deg. off

MUD RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3½	4½	1100	14	70	7¼
			18		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
630	44	9.4			Water
					1 gal. Conox

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3637	3654	17	16	2	HYCALOG.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT WITH CORE BBL	12 00	12 30	½
RECOVER CORE	12 30	1 15	¾
SERVICE RIG	1 15	1 45	½
CHANGE CORROSION RINGS	1 45	2 15	½
RUN IN HOLE - BREAK +	2 15		
CHECK JOINTS ON CROSSOVER SUBS		4 30	2 ¼
CLEAN 60 FT TO BOTTOM	4 30	5 00	½
REAM CORE HOLE	5 00	6 15	1 ¼
DRILLING	6 15	8 00	1 ¾

Driller Hockey 8

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

From	To	Hole Made	Hole Size	Formation
3654	3727	60	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	34	2	15	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING
DATA	15	7"		429-48	124M

DRILL COLLARS: 52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
18	YTL	4 00 AM				15-20		17

Bit Serial No. E05024 Table R.P.M. 108

Conventional Nozzle Size

Kind	at	Ft.	Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		1100	14"	70	7¼
1		650	18"	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	42	9.4		8.5	Water
1100	46	9.4			50# Caustic Soda
100	44	9.4	8.4	9.	800# Hydrogel
330	44	9.4			2 gals cromop.
					2 gals diesel

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

	From	To	Hrs.
Drilling	8 00	4 00	8.

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
3727	3735	8	12¼	REAMER - 5-24

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	34	2	7	550.82	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING
DATA	15	7"		429.48	128M

DRILL COLLARS: 52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
18	YTL	5 AM	6 PM	13	3735	20M	81	17
19	SV2							

Bit Serial No. E05029 - 29187 Table R.P.M. 110

Jet or Conventional - CON - CON Nozzle Size

Kind	at	Ft.	Deg. off
TOTCO	3730		1¼

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
13¼		1150	14"	70	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	45	9.4			CELLEX 50#
					2 GAL. CRONOX 235

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
#18	Bit	Condition IQ-B2-G1			

	From	To	Hrs.
DRILLING	4	6	2.
TOTCO	6	6 15	¼
Pump out 11 singles	6 15		
TRIP OUT		9	2¾
SERVICE RIG CHECK B.O.P	9	9 15	¼
TRIP IN - pick up 11 singles	9 15	11 30	2¼
CLEAN 50' TO BOTTOM	11 30	12	½

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 ... Approved by ...

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 30

I.O.E. STORY I-50-67-30-135-15 — LSD ____ SEC ____ TWN ____ RGE ____ W ____ Contractor I.O.E. Type Rig NAT #3 Month JAN. Day 8 1966

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.					
From	To	Hole Made	Hole Size	Formation	
3637	—	—	12¼	SUB 1.00	REAMERS 5.35 5.24

2nd Tour From: 8:00 a.m. To: 4:00 p.m.					
From	To	Hole Made	Hole Size	Formation	
3637	3649	11	12¼ & 15 11/16	Reamers 5.35, 5.24	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.					
From	To	Hole Made	Hole Size	Formation	
3648	3654	6	15 11/16	SUB 1.00	REAMERS 5.35 - 5.24

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	33	—	18	550-82	57-10

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	33	—	1.	580-82	57-10

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	33	—	1	550-82	57-10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	126M	52M

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	126M	52M

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	126M	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	O	7 AM				7		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	DIA-	7 AM		5¼		7-18		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	D	7 AM	9 15	13½	3654	18M	17	

Bit Serial No. EC-4507 — Table R.P.M. 60

Jet or Conventional - DIAMOND — Nozzle Size

Kind — at — Ft. — Deg. off

Bit Serial No. EC-4507 — Table R.P.M. 60.

Jet or Conventional - DIAMOND. — Nozzle Size

Kind — at — Ft. — Deg. off

Bit Serial No. EC-4507 — Table R.P.M. 60

Jet or Conventional - DIAMOND — Nozzle Size

Kind — at — Ft. — Deg. off

SURVEYS

PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
34		1050	14	60	7¼
			19		

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		975	14"	48	7¼
			18"		6¼

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5	3	1060	~~14~~ 16"	46	7¼ 6¼

MUD RECORD

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
700	46	9.4			
					CHECK KELLY COCK

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
8 30	45	9.4	7.4	8.5	Water
10 00	45	9.4			1000# Hydrogel
12 00	44	9.4		9.5	50# Caustic
2 00	43	9.4			CHECKED ALL - soda
3 30	46	9.4			FIRE EXTINGUISHERS O.K.

Time	Visc.	Wt.	W.L	pH	ADDITIVES — POUNDS
4 30	48	9.4		10.	Water
6 00	45	9.4			
8 00	46	9.4		9.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3637					
		Bit in Condition T2 B4 G1.			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3637	3648	11	Not out	2	Hycolog

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
3637	3654	17		2	HYCALOG

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT TO CORE	12 00	1 30	1½
SERVICE RIG - B.O.P.	1 30	2 00	½
PICK UP CORE BBL.	2 00	2 15	¼
CHECK REAMER PINS	2 15	2 45	½
RUN IN HOLE TO CORE	2 45	4 45	2
REAM 290 FT TO BOTTOM	4 45	7 45	3
CORING	7 45	8 00	¼
			8

	From	To	Hrs.
Coring	8 00	4 00	8.

	From	To	Hrs.
CORING	4	9 15	5¼
PUMPED OUT 10 SINGLES	9 15		
TRIP OUT		12	2¾

Driller Hackney

Driller Clifford Kippen

Driller W. Eccles

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.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 29

I.O.E. STONY / LSD I-50-67-30-135-15 SEC ..... TWN ..... RGE ..... W ..... Contractor I.O.E. Type Rig NAT. #3 Month JAN. Day 7 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3493	3548	55'	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	32	2	15	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429.48	124M	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
17	56	7 PM				16-18		

Bit Serial No. 759540 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 9/8

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	8		1150	14	69	7¼
No. 2				18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	43	9.4			50 lbs. CMC.
2⁰⁰	46	9.4			1500 lbs. GEL
4⁰⁰	44	9.4	6.8	9.5	Water
6⁰⁰	46	9.3			
7⁰⁰	47	9.3			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12⁰⁰	8⁰⁰	8

Driller Lockey

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

From	To	Hole Made	Hole Size	Formation
3548	3549	51'	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	33	1	24	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429.24	125M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
17	56	7 PM		20		16-15	141	

Bit Serial No. 759540 Table R.P.M. 110

Jet or ~~Conventional~~ - Nozzle Size 3 5/4

Kind Totco at 3541 Ft. 1½° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		1175	14"	69	7¼
			14"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	45	9.4		9.	Water
10⁰⁰	46	9.4			Shoveled ditch
12⁰⁰	44	9.4			600 lbs Hydrogel
2⁰⁰	44	9.4			2 gals Cromox
330	46	9.4			2 gals diesel.

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

	From	To	Hrs.
Drilling	8⁰⁰	9⁴³	1 3/4
Totco at 3541'	9⁴³	10¹³	½
Drilling	10¹⁵	4²⁵	5 3/4
			8 HR

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
3599	3637	38	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	33	2	16	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	15	7"		429.48	12.5M	52M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
17	56	7 PM	10 AM	26	3637	15 M	179	2-4-1

Bit Serial No. 759540 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 3/8

Kind TATCO at 3630 Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1175	14"	67	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	46	9.4			Cusatic 50#
6⁰⁰	46	9.4			water
9⁰⁰	46	9.4		9.0	
10⁰⁰	46	9.4			

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

	From	To	Hrs.
DRILLING	4	10	6
CIRCULATE TO CORE	10	10⁴⁵	¾
TOTCO	10⁴⁵	11	¼
Pump out 9 singles	11		
TRIP OUT		12	1
			8

Driller A. 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 ..... Approved by .....

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

I.O.E Stoney SD. I-50-67-30-135-15 SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

Contractor I.O.E Type Rig NAT. #3 Month JAN. Day 6 19 66

DAILY DRILLING REPORT No. 28

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3379	3429	50	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	31	1	13	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429-48	122 / 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
16	YSI	10 AM				15M		

Bit Serial No. E14466 Table R.P.M. 108

Jet or Conventional - Conv. 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
7¾		1100	14	70	7¼
			18		

No. 1
No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	40	9.3			50 lbs Caustic Soda
2 00	43	9.3		9.5	2 gal Aquagel 235
4 00	43	9.3	7.0		2 gal diesel fuel
6 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	12 00	2 00	2
REPAIR OIL LINE IN DWKS.	2 00	2 15	¼
DRILLING	2 15	5 00	2¾
WORK TIGHT CONNECTION	5 00	5 15	¼
DRILLING	5 15	8 00	2¾
			8

Driller T. Lockey

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

From	To	Hole Made	Hole Size	Formation
3429	3458	29	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	31	2	13	550-82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429-48	124M / 74M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
16	YSI	10 AM	12 30	25½	3458	15M	166	
17	56							

Bit Serial No. E14466 759540 Table R.P.M. 110

Jet or Conventional - 3 Jets Nozzle Size 3/8

Kind Tetra at 3452 Ft. 140 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½	2½	1000	14"	70	7¼
			18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	40	9.3		9.	Water
10 00	40	9.3			Shoveled ditch
11 30	39	9.3			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Check Kelly Cock.					
Bit #16 Condition T2 B6 G1.					

	From	To	Hrs.
Drilling	8 00	12 30	4½
Tote	12 30	12 45	¼
Pumped out 4 stands	12 45	1 30	¾
Tripping	1 30	2 00	½
Service Rig check B.OPs.	3 00	3 30	½
Run in Drill Collars	3 30	4 00	½

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
3458	3493	35	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	32	—	9	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429-48	124M / 56M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
17	56	7 15 PM				15-18		

Bit Serial No. 759540 Table R.P.M. 110

Jet or Conventional - JET Nozzle Size 3/8

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4½		1150	14"	67	7¼
	3		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					2 GAL. CROMOX 235
					2 GAL. DIESEL FUEL
8 00	39	9.3			GEL 2000 #
9 00	38	9.4		9.5	Caustic Soda 50 #
11 00	38	9.4		9.5	Water

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

	From	To	Hrs.
CUT 67' OFF D. LINE	4	5	1
TRIP IN	5	6 15	1¼
FILL PIPE	6 15	6 30	¼
WORK TIGHT hole & CLEAN OUT 40'	6 30	7 15	¾
DRILLING	7 15	8 45	1½
WORK TIGHT CONNECTION	8 45	9	¼
DRILLING	9	12	3
			8 HRS

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 ..... Approved by .....

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

I.O.E. STONE/LSD I-30-67-30-135-15 SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT. # 3 Month JAN. Day 5 1964

DAILY DRILLING REPORT No. 27

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3271	3292	21	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	29	2	DOWN	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429.48	120M / 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
15	MH	3 30 AM	3 30 AM	22¾	3292	15	154	3226
16	Y51							

Bit Serial No. 753106 E14466 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

SURVEYS

Kind TOTCO at 3290 Ft. 1 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	3½		1000	14	70	7¼
No. 2				14		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	39	9.2	7.2	9.0	Water
2 00	39	9.2			Caustic Soda 50 lbs

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT CONDITION - 15	T2 - B2 - CF				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	3 00	3
CIRCULATE - SURVEY	3 00	3 30	½
PUMP OUT 9 SINGLES	3 30		
PULL OUT OF HOLE		7 00	3½
SERVICE RIG	7 00	7 30	½
BREAK & CHECK REAMER	7 30		
JOINTS		8 00	½
			8

Driller Hockey

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

From	To	Hole Made	Hole Size	Formation
3292	3329	37	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	30	1	26	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429.48	122M / 74M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
16	Y51	10 45 AM		6		14-15		

Bit Serial No. E14466 Table R.P.M. 105

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
	6¼		975	14"	71	7¼
			500	18"	45	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 30	38	9.2			Water
12 00	37	9.2		10.	1000 # Hydrogel
2 00	37	9.2			Shovel Ditch
3 30	38	9.2			2 Gal. Cromor
					2 Gal. diesel fuel

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

	From	To	Hrs.
Trip in C.B.S.	8 30		
Pick up 4 singles		9 30	1½
Clean 45' to Bottom	9 30	10 00	½
Drilling	10 00	4 00	6

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
3329	3379	50	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	31	—	30	550-82	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429.48	122M / 74M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
16	Y51	10 AM				15		

Bit Serial No. E14466 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

Kind TOTCO at 3382 Ft. 1½ Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7½		950	14"	71	7¼
				18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	38	9.2		10.	1 GAL. DIESEL FUEL
6 30	39	9.3		10.	1 GAL. CROMOR 235
8 00	40	9.3		10.	Gel 1500 #
11 00	40	9.3	6.4	10	Cellex 50 #

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

	From	To	Hrs.
DRILLING	4	11 30	7½
TOTCO @ 3382	11 30	12	½
			8 HRS

Driller Cockiff

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. 26

I.O.E. STONY LSD I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT. III Month JAN. Day 4. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3138	3166	28	12¼	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	28	1	4	550.82	REAMER 5.24

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	119	74 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	M4L	3³⁰ AM				10-13	28	

Bit Serial No. 753106 Table R.P.M. 110

Jets 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
4½		1000	14"	70	7¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3⁰⁰	45	9.5			Water
4⁰⁰	45	9.4		9.0	Gel 3000#
5⁰⁰	46	9.4			Caustic 100#
6⁰⁰	45	9.3		10.0	Cellex 100#
7⁰⁰	45	9.2			Sawdust. 15 bags

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
BIT # 14 T3-B2-G1					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN	12⁰⁰	2⁰⁰	2
BUILD UP MUD VOLUME	2⁰⁰	3⁰⁰	1
REAM 60' TO BOTTOM	3⁰⁰	3³⁰	½
DRILLING	3³⁰	8⁰⁰	4½
			8

Driller F. Kornemann

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

From	To	Hole Made	Hole Size	Formation
3166	3217	51	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	29		14	550-82	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	120 M	74 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	M4L	3³⁰ AM				12 M		

Bit Serial No. 753106 Table R.P.M. 105-110

Jets or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1100	14	70	7¼
			14		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8⁰⁰	44	9.2			Water
10⁰⁰	43	9.2		10	800 lbs GEL
12⁰⁰	40	9.2			50 lbs CELLEX
2⁰⁰	43	9.2			

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

	From	To	Hrs.
DRILLING	8⁰⁰	8³⁰	½
SERVICE RIG	8³⁰	8⁴⁵	¼
DRILLING	8⁴⁵	4⁰⁰	7¼
			8

Driller Lockey

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

From	To	Hole Made	Hole Size	Formation
3217	3271	54	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	29	2.	21	550.82.	Reamer 5.24.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429-48	121 M.	74 M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
15	M4L					12, 16.		

Bit Serial No. 753106. Table R.P.M. 110.

Jets Conventional - Nozzle Size

Kind Totco at 3220 Ft. 1 1/8° Deg. off.

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		975	14"	70	7¼
			15"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4³⁰	41	9.2		9.5	Water
6⁰⁰	40	9.2			
8⁰⁰	39	9.2			Lowell Mud
10⁰⁰	39	9.2			
11³⁰	39	9.2		9.	

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

	From	To	Hrs.
Drilling	4²⁰	5³⁰	1½.
Totco at 3220	5³⁰	6⁰⁰	½.
Drilling	6⁰⁰	12⁰⁰	6

Driller Clifford Kippan

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

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

Form 3402 (300 bks.-10-64)-P.P.Co.

IMPERIAL OIL LIMITED

I.O.E. STONY LSD I-56-67-30-135-15 SEC. ____ TWN. ____ RGE. ____ W. ____ Contractor I.O.E. Type Rig NAT. III Month JAN. Day 3. 1966

DAILY DRILLING REPORT No. 25

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

DEPTH

From	To	Hole Made	Hole Size	Formation
3024	3058	~~34~~ 34	12¼	SAND-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	27	1	21	550.82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429.48	118 M / 74 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
14	MHN	3 00 AM				8-10	34	

Bit Serial No. 765761 Table R.P.M. 110

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

SURVEYS

Kind ____ at ____ Ft. ____ Deg. off

PUSH PUMP RECORD No. 1 / No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5½		900	14	64	7¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3 00	42	9.6			Water
4 00	38	9.5		9.0	Gel 11.00
6 00	39	9.5			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	BIT # 13	T5-B3-G1			

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT	12 00	1 00	1
RUN IN	1 00	2 30	1½
REAM 50' TO BOTTOM	2 30	3 00	½
DRILLING	3 00	8 00	5
			8

Driller F. Kornemann

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

From	To	Hole Made	Hole Size	Formation
3058	3108	50	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	28	/	31	550-82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15	7"		429.48	118 / 74M

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	3 00 AM				10-13		

Bit Serial No. 765761 Table R.P.M. 100-110

Jet or Conventional - CONV. Nozzle Size

Kind ____ at ____ Ft. ____ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7¾		950	14	71	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	39	9.5		9	50 lbs. CMC
10 00	39	9.5			Water
12 00	39	9.5			
2 00	39	9.4		9.0	TO THE

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

	From	To	Hrs.
DRILLING	8 00	3 45	7¾
SURVEY	3 45	4 00	¼
			8

Driller Hewson

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

From	To	Hole Made	Hole Size	Formation
3108	3138	30	12¼	Sandstone Shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	28	—	1	550.82	Reamer-5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4"	9"		121-34	DRILLING STRING / DRILL COLLARS
DATA	15"	T"		429-48	74 M

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	3 00 AM	10 00 PM	14¼	3138	13 M	114	

Bit Serial No. 765761 Table R.P.M. 105

~~Jet~~ Conventional - Nozzle Size

Kind Totco at 3093 Ft. 1 1/8° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6	2	1035	14" / 16"	90	7¼ / 6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	38	9.4		8.5	Water
7 00	38	9.4			1300# Hydrogel
8 30	38	9.4			50# C.M.C.
10 00	46	9.5			

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

	From	To	Hrs.
Survey	4 00	4 15	¼
Drilling	4 15	6 30	2¼
Pumping up mud gages	6 30	6 45	¼
Drilling	6 45	10 00	3¼
Totco at 3135 2°	10 00	10 15	¼
Pulling Bit	10 15	12 00	1¾

Driller Clifford Kippen

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ✓ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher A. Bernat Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 24

I.O.E. STONY LSD I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT. III Month JAN. Day 2. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2926	2940	14	12¼	SAND-SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	26	—	20	550.82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	115M	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
12	YSI	5:45 AM	3:15 PM	21¼	2940	15	126	44-1
13	YSI				7			

Bit Serial No. E 54100 - E 14465 Table R.P.M. 110

Jetex Conventional - Nozzle Size

SURVEYS

Kind TOTCO at 2940 Ft. 1 3/4 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
3¼		925	14"	71	7¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 MN	38	9.6			Water
2 00	40	9.6		9	Gel 800
					Celley 50

Bit Condition F 12 T4 B3 GI

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	PUMPED OUT 8 SINGLES				

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	3 15	3¼
TOTCO & CIRCULATE	3 15	3 30	¼
PULL OUT	3 30	6 00	2½
WORK ON HYDRIL	6 00	7 00	1
RUN IN	7 00	8 00	1
			8

Driller F. Kormenicm

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2940	2981	41	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	26	1	7	550.82	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	116M	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
13	YSI	9 30 AM				11-13		

Bit Serial No. E1H465 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6½		950	14	71	7¼
			18		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10 30	42	9.6			Water
12 00	42	9.6		9.0	dumped ditch
2 00	41	9.5			
3 00	41	9.5			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN HOLE.	8 00	9 00	1
CLEAN 60 FT. TO BOTTOM	9 00	9 30	½
DRILLING	9 30	11 30	2
JACK DERRICK	11 30	12 00	½
DRILLING	12 00	4 00	4
			8

Driller [illegible]

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2981	3024	43.	12¼"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	21	—	25'	550.82.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48.	114M.	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
13	YSI	9 30 AM	10 45 PM	12¼	3024	13, 12, 15	84	6-6-1

Bit Serial No. E14465 Table R.P.M. 110

Jetex Conventional - Nozzle Size

Kind Totco at 3005 Ft. 1 3/4° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7		950	14"	71	7¼
	1		18"		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	39	9.6		9.	Water
6 00	37	9.5			800 # Aquagel
8 00	38	9.5			Treated fresh
10 00	38	9.5			5.0 # Caustic soda

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4 00	9 45	4¾
Totco at 3005	9 45	9 45	½.
Drilling	9 45	10 45	1
Circulate hole	10 45	11 00	¼
Pulling Bit	11 00	12 00	1

Driller Clifford Kippen

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.

I.O.E STONY LSD I-50-67-30-135-15 SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

Contractor I.O.E. Type Rig NAT. III

DAILY DRILLING REPORT No. 23

Month JAN. Day 1. 1966

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2814	2826	12	12 1/4	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	24	1	13	550.82	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	114 M	7 H

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	YSI	5 45 AM				10-12	12	

Bit Serial No. E 54100 Table R.P.M. 110

~~Jet~~ Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

PUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	24		1000	14"	70	7 1/4
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
6 00	45	9.5			Water
7 00	42	9.5		10.0	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT	12 00	12 30	1/2
CHECK & CHANGE PINS IN BODY REAMER	12 30	1 30	1
CHANGE CORROSION RING IN SHVER SUB	1 30	1 45	1/4
PICK UP 3 - 7" D.C.	1 45	3 60	1 1/4
RUN IN	3 00	4 30	1 1/2
WORK PLUGGED BIT. CLEAN GO BIT	4 30	5 45	1 1/4
DRILLING	5 45	8 00	2 1/4

Driller F. Kornemann

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

From	To	Hole Made	Hole Size	Formation
2826	2871	45	12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	25	/	28	550-82	REAMER 5-24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	114M	7HM

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	YSI	5 45 AM				10-15		

Bit Serial No. E 54100 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO at 2854 Ft. 1 1/3 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7 1/4		950	14	70	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	42	9.5		10.0	Water
10 00	41	9.5			
12 00	41	9.5		10.0	
2 00	39	9.4			

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

	From	To	Hrs.
DRILLING	8 00	2 45	6 3/4
SURVEY	2 45	3 30	3/4
DRILLING	3 30	4 60	1/2
			8

Driller Horkey

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

From	To	Hole Made	Hole Size	Formation
2871	2926	55	12 1/4"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	25	1	3.	550-82.	Reamer 5.24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121-34	DRILLING STRING	DRILL COLLARS
DATA	15	7"		429.48	115 M.	7 H M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	YSI	5 45 AM		17 1/2		15 M	112.	

Bit Serial No. E54100. Table R.P.M. 110.

~~Jet~~ Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		925	14"	71	7 1/4
	1		15"		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	38	9.5		10.	Water
6 30	38	9.5			Shoveled ditch
8 00	38	9.5	9.3	9.5	
10 00	38	9.5			
11 30	38	9.6			

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

	From	To	Hrs.
Drilling	4 00	12 00	8.

Driller Clifford Kippen

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 L Bennett Approved by .....

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 22

I.O.E STONY SD. — I-50-67-30-135-15 — SEC. TWN. RGE. W. — Contractor I.O.E. — Type Rig NAT. III — Month DEC. — Day 31. — 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2655	2713	58	12 1/4	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	24	1	11	466.55	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	12	7"		345.21	106M	68M

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	Y51	4 45 PM		14 1/4		12-15	114	25

Bit Serial No. E 54101 — Table R.P.M. 108

~~Jet~~ Conventional — Nozzle Size

SURVEYS

Kind TOTCO at 2694 Ft. 7/8 Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			850	14"	71	7 1/4
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
~~3PM~~ 12	38				Water
12 Mdnt	38	9.5		9.	Sawdust 3 bags
2AM	37	9.5	10.8	9.	Gel 1000#
4AM	39	9.5		10.0	Caustic 50#
6AM	39	9.4		10.0	

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	5 00	5
TOTCO @ 2694 7/8°	5 00	5 30	1/2
DRILLING	5 30	8 00	2 1/2
			8

Driller F. Kooneman

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2713	2775	62	12 1/4	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	25	—	10	466.55	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	12	7"		345.21	106M	68M

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	451	4 45 PM				12-19		

Bit Serial No. E 54101 — Table R.P.M. 110

Jet or Conventional - CONV. — 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
	8		850	14	71	7 1/4
						6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	39	9.4			Water
10 00	39	9.4	10.0		50 lbs. CMC
11 00	38	9.4			600 lbs. GEL
1 00	41	9.4	9.0		100 lbs Caustic Soda
2 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	8 00	11 00	8

Driller Hockey

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2775	2814	39	12 1/4	Siltstone Shale

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	28	2	30	466.55	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	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
11	451	4 45 PM	9 45	27 1/2	2814	14	140	25

Bit Serial No. E54101 — Table R.P.M. 110.

~~Jet~~ Conventional — Nozzle Size

SURVEYS

Kind Totco at 2804 Ft. 20. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	5 ~~3~~ 4	2	850	14"	71	7 1/4
				18"		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	44	9.5		10.	Water
6 30	42	9.5			
8 30	42	9.5			Shoveled ditch

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	4 00	8 45	4 3/4
Totco at 2804	8 45	9 15	1/2
Drilling	9 15	9 45	3/4
Pulling Bit	9 45		2 1/4
Pump out 4 singles		12 00	
Remove corossion rings			
Replace new ones			

Driller Clifford Viggers

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 O. Bennett Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 21

I.O.E STONY SD. I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT. III. Month DEC. Day 30 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2588	2599	11	8 11/16	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	22	1	7	466.55	57.10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	107 M	68 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	DIAM	12 30 AM	6 30 PM	18	2599	15-18	29	

Bit Serial No. EC 4507 Table R.P.M. 60

~~Jet or Conventional~~ - 8 11/16 DIAM. 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			1000		49	7 4
No. 2	6½		900	18	53	6 4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	45	9.4	4.4	9.0	Water
2 AM	45	9.4		9.0	Caustic 50#
4 AM	44	9.4		10.0	Carbonox 150#
6 AM	41	9.4		10.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2574	2599	24	24	#1	Hycolog

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CORING	12 00	6 30	6½
TRIPPING	6 30	8 00	1½
			8

Driller T. Kornemann

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

From	To	Hole Made	Hole Size	Formation
2599	2599	—	8 11/16-12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar F.	Core Bbl. Ft.
4½	23	—	13	466.55	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	105M	68M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
11	YSI					5-6		

Bit Serial No. E5H101 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2½		450	14	64	7 4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
3 00	41	9.4			Water

CORING

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

	From	To	Hrs.
PULL OUT WITH CORE BBL.	8 00	8 45	¾
RECOVER CORE	8 45	9 45	1
SERVICE CORE BBL	9 45	10 00	¼
SERVICE R.G	10 00	10 30	½
WORK ON HYDRIL CONTROL	10 30		
VALVE - CHECK B.O.P		11 30	1
RUN IN HOLE	11 30	1 30	2
REAM TIGHT HOLE 2530-2570	1 30	2 30	1
REAM 8 11/16-12¼ 2574-2591	2 30	4 00	1½
			8

Driller Hooker

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

From	To	Hole Made	Hole Size	Formation
2599	2655	56	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	23	2.	9.	466.55	Reamer 5.24.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	106M	68M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
11	YSI	4 45 PM		6¾		10-15	56.	25

Bit Serial No. E5H101. Table R.P.M. 108.

Conventional - Nozzle Size

Kind Totco at 2584 Ft. 1¾° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		450	14"	72	7 4
	1½		18"		6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 30	38	9.4			Water
6 00	39	9.4		9.	600# Hydrogel
6 30	38	9.4			Shoveled Sluice
10 00	37	9.4			
1 30	38	9.4			

CORING

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

	From	To	Hrs.
Reaming 8 11/16-12¼ 2591 - 2599	4 00	4 45	¾.
Drilling	4 45	5 45	1
Totco	5 45	6 15	½.
Drilling	6 15	12 00	5 ¾.

Driller Clifford Hagen

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ 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. 20

I.O.E. STUMP LSD I-50-67-30-135-15 SEC. TWN. RGE. W. Contractor I. O. E. Type Rig NAT. III Month DEC. Day 29 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2549	2574	25	12 1/4	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	22	2	—	466.55	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	104 M	68 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
10	YTIA	3 45 AM	4 45 AM	22	2574	15	196	

Bit Serial No. E 34331 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO at 2574 Ft. MIS-RUN Deg. off

MUD RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
3	1	700	14	65	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	40	9.5		11+	Water
2 00	38	9.5			Gel. 1000 #
4 00	38	9.5			

CORING

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

SURVEYS

PUSH PUMP RECORD
No. 1
No. 2

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	3 00	3
CIRCULATE HOLE	3 00	4 00	1
PULL OUT TO 0 CORE	4 00	6 30	2 1/2
PICK UP + SERVICE 0 CORE BBL	6 30	8 00	1 1/2

Driller F. Kornemann

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

From	To	Hole Made	Hole Size	Formation
2574	2578	4	8 11/16	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	22	1	28	466.55	57-10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	107 M	68 M

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	12 39				4-10		

Bit Serial No. EC 4507 Table R.P.M. 60-105

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	2	600	14	47	7 1/8 6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	38	9.5			1000 lbs. GELL
2 00	38	9.5		11	50 lbs. C.M.C
3 00	43	9.5			Water

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2574				#1	CHRISTENSEN

	From	To	Hrs.
MAKE UP CORE BBL	8 00	8 30	1/2
SERVICE R.G	8 30	9 00	1/2
PICK UP REAMER	9 00	9 15	1/4
RUN IN HOLE - PICK UP 5 SINGLES	9 15	11 00	1 3/4
WORKING REAMER IN	11 00		
TIGHT HOLE 25FT		12 30	1 1/2
CORING	12 30	4 00	3 1/2
			8

Driller Herbert

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

From	To	Hole Made	Hole Size	Formation
2578	2588	10	8 11/16	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	22	1	18	466.55	57-10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121-34		
DATA	12	7"		345.21	101 M	68 M

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	12 39 PM		11 1/2		12-15	14	

Bit Serial No. EC 4507 Table R.P.M. 105-60

~~Jet or Conventional~~ - DIA Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4		750	14"	47	7 1/4
4	1 1/2	900	18"	53	6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4.30	38	9.4		10.	Water
6 00	38	9.4			800 # Hydrogel
8 00	40	9.3			50 # Cellex
10 00	43	9.3			Lowded Mitch
11 30	44	9.3			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
2574				#1	~~CHRISTENSEN~~ Hycalog

	From	To	Hrs.
Coring	4 30	12 00	8

Driller Cliff Kippen

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. I.O.E. STONY 1-50

IMPERIAL OIL LIMITED

I.O.E Stony LSD NWT SEC. ..... TWN. ..... RGE. ..... W. .....

Contractor I.O.E Type Rig NAT #3 100 Month DEC. Day 28 1965

DAILY DRILLING REPORT No. 19

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2378	2422	44	12¼	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	21	—	2	466-55	REMMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	12	7"		345.21	102 M / 68M

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
10	YTIA	345 AM				12M		

Bit Serial No. E34331 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5	3	700	14"	64	7¼
	2		18"		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Gel 600#
400	33	9.			CMC 50#
100	34	9.3			Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP OUT	12	115	1¼
SERVICE RIG & CHANGE BITS	115	130	¼
TRIP IN	130	3	1½
PICK UP 8 SINGLES & CLEAN OUT 35	3	345	¾
DRILLING	345	8	4¼
			8HRS

Driller W. Keogh

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

From	To	Hole Made	Hole Size	Formation
2422	2484	62	12¼	SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	21	2	1	466.55	REMMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	12	7"		345.21	102 / 68 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	YTIA	345 AM		11½		12-15		

Bit Serial No. E 34331 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO at 2424 Ft. 3/8 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7¼		700	14	65	7¼
			18		6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
800	36	9.5			Water
1000	36	9.5			Gel 200#
12	36	9.5			Sawdust 5 bags
200	38	9.5			

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

	From	To	Hrs.
TOTCO @ 2424 + SERV. RIG	800	845	¾
DRILLING	845	400	7¼
			8

Driller F. Kornemann

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

From	To	Hole Made	Hole Size	Formation
2484	2549	65	12¼"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	22	2	25	466.55	Reamer 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	12	7"		345.21	104M. / 68M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	YTIA	3 PM		19		15 M.	171	

Bit Serial No. E34331 Table R.P.M. 110.

~~Jet~~ Conventional - Nozzle Size

Kind Totco at 2469 Ft. 2¾° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
7½		700	14	65	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	37	9.4			150 lbs. CAUSTIC SODA
600	37	9.4			800 lbs. GELL
800	36	9.4			Cleaned No2 TANK
1000	36	9.4			3 SKS. SAWDUST

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

	From	To	Hrs.
Totco at 2469' 2¾°	400	430	½
Drilling	430	1200	7½

Driller Clifford Kuzyan

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

I.O.E STOW LSD. N.W.T. SEC. TWN. RGE. W. Contractor I.O.E NAT. #3 Type Rig NAT. 100

DAILY DRILLING REPORT No. 18 Month DEC. Day 27 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
2175	2266	91	12¼	SHALE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	19	1	8	466-55	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345-21	98 m	68 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
9	YTIA	9 PM				10 m		

Bit Serial No. E34328 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

Kind TOTCO at 2183 2242 Ft. 3/16 3/16 Deg. off

SURVEYS

PUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4		1000	14"	48	7½
6	2	1000	18"	52	6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	35	9.2			
200	35	9.2			Water
400	36	9.3			Gel 1800#
700	35	9.3			Sawdust 1 bag

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CONTROLLED WT.			
DRILLING	12	12 30	½
TOTCO - UNSPOOL S-LINE	12 30	1 15	¾
DRILLING	1 15	5	3¾
TOTCO @ 2242	5	5 15	¼
DRILLING	5 15	6 45	1½
WORK ON AIR LINE	6 45	7	¼
DRILLING	7	8	1
			8

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
2266	2331	65	12¼	Shale & Sand

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	20	—	3	466-55	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9		121.34		
DATA	12	7"		345.21	100m	68M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	YTIA	9 PM				10M		

Bit Serial No. E 34328 Table R.P.M. 110

Jet or Conventional CONV. Nozzle Size

Kind Totco at 2274 2304 Ft. 3/16 3/16 3° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
5		1050-600	14"	44-55	7½
1		1050	14	51	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
800	36	9.3			Water
1000	35	9.3	11	8	Saw dust. 3 bags
1200	33	9.4			Gel 1000
200	34	9.4			Carbonox 50
					Caustic 50

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

Controlled Wt. on bit	From	To	Hrs.
Throw out air hose	800	815	¼
Drlg	815	915	1
Totco @ 2274 - 3 1/8°	915	930	¼
Drlg.	930	1245	3¼
Totco @ 2304 - 2 7/8° 3°	1245	100	¼
Drlg.	100	345	2¾
Service Rig	345	400	¼
			8½

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
2331	2378	47	12¼	SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	20	2	17	466.55	REAMER 5.24

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	102 M	68 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	YTIA	9 PM	1045	23½	2378	10	2.46	

Bit Serial No. E 34328 Table R.P.M. 110

Jet or Conventional -CONV. Nozzle Size

Kind TOTCO at 2365 Ft. 3 Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6		1 50	14	65	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	34	9.4			Caustic soda 50 lbs.
100	34	9.4			CARE-DOX 50 lbs.
800	33	9.4			GEL lbs.
1000	33	9.4			Water

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

PUMPED OUT 8 SINGLES

	From	To	Hrs.
DRILLING	400	845	4¾
TOTCO @ 2365	845	915	½
DRILLING	915	1045	1½
TRIPPING	1045	12 00	1¼
			8

Driller F. Kommen

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 ____ Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 17

I.O.E STONEY LSD. N.W.T. SEC. TWN. RGE. W. Contractor I.O.E. Type Rig NAT #3 NAT-100 Month DEC. Day 26 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1978	2064	86	12¼	SHALE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	17	1	30	466-55	1 STABILIZER 6.03

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	96 M	68 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	YSI	12³⁰ pm				10M		

Bit Serial No. E64093 Table R.P.M. 110

Jet or Conventional - CON. Nozzle Size

SURVEYS

Kind TOTCO at 2004 2034 Ft. 3° 3½ Deg. off

PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1 8	compared	1000	14"	56	7¼
No. 2 8		1000	18"	52	6½

MUD RECORD

Time	Visc.	Wt.	W.L.	pH	ADDITIVES — POUNDS
12⁰⁰	33	9.1			
2⁰⁰	33	9.1			Water
4⁰⁰	32	9.1			Gel 600#
6⁰⁰	33	9.2			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CONTROLLED WT. DRILLING	12	3	3
TOTCO @ 2004	3	3³⁰	½
DRILLING	3³⁰	5³⁰	2
WORK ON COMPRESSOR	5³⁰	5⁴⁵	¼
TOTCO @ 2034	5⁴⁵	6	¼
DRILLING	6	7⁴⁵	1¾
TOTCO @ 2064	7⁴⁵	8	¼
			8

Driller A. Coghill

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

From	To	Hole Made	Hole Size	Formation
2064	2132	68	12¼	Shale.

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	18	—	22	466-55	1 STABILIZER 6.03

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	96 m	68 m

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
8	YSI	12³⁵ pm	1⁰⁰ pm	21¼	2132	10M	235	

Bit Serial No. E64093 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size

Kind Totco at 2064 2134 Ft. 3° 3½ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
21.30		1100	14"	56	7¼
		1100	18"	50	6½

Time	Visc.	Wt.	W.L.	pH	ADDITIVES — POUNDS
8⁰⁰	34	9.2			Water
10⁰⁰	33	9.2			Saw dust 3 bags
12⁰⁰	34	9.2			Gel 800#
					Cmc. 50#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Hole	Dr Stabilizer Tight	1622	2132		

	From	To	Hrs.
DRILLING (Controlled wt.)	8⁰⁰	10⁰⁰	2
Totco @ 2094.	10⁰⁰	10¹⁵	1/4
DRILLING	10¹⁵	12⁰⁰	1¾
Totco @ 2124	12⁰⁰	12¹⁵	1/4
DRLG.	12¹⁵	1³⁰	¾
TOTCO @ 2132	1⁰⁰	1¹⁵	1/4
Tight work pipe	1¹⁵	1³⁰	1/4
Pump out 17 galg. laydown	1³⁰	3¹⁵	1¾
TRIP out of hole	3¹⁵	4⁰⁰	¾
			8hrs

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
2132	2175	43	12¼	SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	18	1	8	466.55	REAMER 5.24' 90' UP

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	98	68 M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	YTIA	9²⁰ PM						

Bit Serial No. E34328 Table R.P.M. 110

Jet or Conventional - CONV. Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
2		1000	14	56	7¼
3		1000	18	50	6½

Time	Visc.	Wt.	W.L.	pH	ADDITIVES — POUNDS
16⁰⁰	35	9.2			500 lbs. GEL.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	REAMER 90' UP.				

	From	To	Hrs.
PULL OUT	4⁰⁰	4³⁰	½
LAY DOWN STAB. PICK UP REAMER	4³⁰	6¹⁵	1¾
RUN IN	6¹⁵	7³⁰	1¼
PICK UP 17 SINGLES	7³⁰	9⁰⁰	1½
REAM 68 FT. TO BOTTOM			
DRILLING	9⁰⁰	12⁰⁰	3
			8

Driller F. Kornemann

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.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 16

I.O.E STONEY LSD ..... SEC ..... TWN ..... RGE ..... W ..... N.W.T. Contractor I.O.E. NAT. #3 Type Rig NAT 100 Month DEC. Day 25 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1897	—	—	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	15	1	28	466-55	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"				
DATA	12	7"			92M	68M

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	MAN	5³⁰ AM	12 NN	16½	1897		247	

Bit Serial No. 765687 Table R.P.M.

Jet or Conventional - CON Nozzle Size

SURVEYS

Kind at Ft. Deg. off

RUSH 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.
CIRCULATE TO CORE	12	12³⁰	½
TRIP OUT TO CORE	12³⁰		
PUMPED OUT 12 SINGLES		4³⁰	4
PREPARE CORE BBL	4³⁰		
& LOOK FOR SUBS		7³⁰	3
PICK UP 9" D. COLLAR			
& LAY DOWN REAMER	7³⁰	8	½
			8

Driller M. Coghill

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

From	To	Hole Made	Hole Size	Formation
1897	1928	31	12¼	Sand & shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	15	2	15	466-55	1 STABILIZER 6.03

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9		121-34		
DATA	12	7"		345-21	94	68M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
~~7 MAN~~		12³⁰ PM				10-12		
8	YSI							

Bit Serial No. F64093 Table R.P.M. 98

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
	3½	compounded	1100	14	56	7¼
			1100	18	54	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Water
12⁰⁰	35	9.2			Gel 800#
2⁰⁰	32	9.2			CMC 50#

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

	From	To	Hrs.
LAY down Body Reamer Change Saver Sub in to 4" Pickup Rods	8⁰⁰	12³⁰	4½
DRLG @ controlled weight	12³⁰	4⁰⁰	3½
			8 hrs

Driller Jim Kerby

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

From	To	Hole Made	Hole Size	Formation
1928	1978	50	12¼	SAND & SHALE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	16	1	26	466.55	1 STABILIZER 6.03

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	4	9"		121.34		
DATA	12	7"		345.21	96	68M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
8	YSI	12²⁰ PM				10		

Bit Serial No. E64093 Table R.P.M. 105

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO at 1943 / 1974 Ft. 4 7/16 / 3 7/8 Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
6			1000	14	54	7¼
7			1100	18	52	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	32	9.1			Water
600	33	9.2			600 lbs. GELL
800	32	9.2			
1000	33	9.2			
1100	33	9.2			

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

	From	To	Hrs.
DRILLING	4⁰⁰	5³⁰	1½
TOTCO @ 1943	5³⁰	6⁰⁰	½
DRILLING	6⁰⁰	8⁴⁵	2¾
WORK ON PUMP	8⁴⁵	9¹⁵	½
DRILLING	9¹⁵	10³⁰	1¼
TOTCO @ 1974	10³⁰	11⁰⁰	½
DRILLING	11⁰⁰	12⁰⁰	1
			8

Driller F. Kornemann

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. 15

LSD NW/4 SEC. TWN. RGE. W. Contractor I.O.E. NAT #3 Type Rig NAT 100 Month Dec. Day 24 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1650	1682	32	12¼	SHALE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	13	—	29	466.55	REAMER 16.62

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	12	7"		345.21	90M	68M

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	5:30 PM						

Bit Serial No. 765687 Table R.P.M. 62

Jet or Conventional - CON Nozzle Size

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	Compound	1000	14"	60	7¼
No. 2	3		1000	14"	48	7¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	34	9.2			
600	34	9.2			Water

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN	12	12:30	½
REAM TO BOTTOM	12:30		
WITH STABILIZER		5:30	5
DRILLING	5:30	7	1½
WORK ON MUD PUMP	7	7:15	¼
DRILLING	7:15	8	¾
			8

Driller Lee Cordell

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1682	1797	115	12¼	Shale.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	14	—	5	466.55	Reamer Stabilizer 16.62

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	12	7"		345.21	90	68M

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	5:30 PM				20-30-40		

Bit Serial No. 765687 Table R.P.M. 64-78

Jet or Conventional - Conv. Nozzle Size

Kind Totco at 1720 Ft. 2 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	20	Conditioning Mud	1150	14"	34	7¼
No. 2	3	17	350 PSI.	18"	52	6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	33	9.2			Water
10:00	33	9.2			Gel 800
12:00	32	9.2			Caustic 50
2:00	35	9.2			Carbonox 100
					CMC 50

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling with Mud Pump 350 PSI	8:00	11:00	3
Drilling with 2 pumps 1150 PSI	11:00	12:30	1½
Totco @ 1790 2 7/8°	12:30	12:45	¼
Drlg.	12:45	4:00	3¼
			8

Driller Jim Kaul

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1797	1897	100	12¼	SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	15	1	29	466.55	REAM. + STAB. 16.62

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	12	7"		345.21	92 M	68 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	5:30 PM				40-20-10		

Bit Serial No. 765657 Table R.P.M. 60-105

Jet or Conventional - CONV. Nozzle Size

Kind Totco Totco at 1833 1893 Ft. 3½ 4½ Deg. off

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
				14		7¼
				15		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
400	34	9.2			Water
600	34	9.2			
800	34	9.2			
1039	34	9.2			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	4	6	2
TOTCO @ 1833 3½°	6	6:45	¾
DRILLING	6:45	10:15	3½
TOTCO @ 1893	10:15	11:00	¾
DRILLING	11:00	12:00	1
			8

Driller F. Kornaman

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. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. ..... 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. 14

I.O.E. Strat LSD ..... N.W.I. SEC ..... TWN ..... RGE ..... W ..... Contractor I.O.E. Type Rig NAT #3 NAT 100 Month DEC. Day 23 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1472	1564	92	12¼	SHALE.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	12	2	17	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	9	7"		261.69	80 M	60M

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	YSI	5 PM				15-20M		

Bit Serial No. E64092 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

Kind TOTCO at 1490 1520 Ft. 2½ 2½ Deg. off

SURVEYS

MUD PUMP RECORD

HOURS

	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4	CONV	1000	14"	65	7½
No. 2	4		1000	18"	52	6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	34	9.1			
200	33	9.2			Water
400	33	9.1			
600	34	9.1			

CORING

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

DETAIL

	From	To	Hrs.
DRILLING	12	1	1
TOTCO @ 1490	1	130	½
DRILLING	130	345	2¼
TOTCO @ 1520	345	415	½
DRILLING	415	615	2
TOTCO @ 1552	615	645	½
DRILLING	645	8	1¼
			8 HRS

Driller H. Foglesong

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

From	To	Hole Made	Hole Size	Formation
1564	1650	86	12¼	Shale

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	13	2	20	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	9	7"		261.69	80M	60M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
6	YSI	5 PM	345 PM	29	1450	20-25M	247	

Bit Serial No. E64092 Table R.P.M. 110

Jet or Conventional - Conv Nozzle Size

Kind Totco at 1411 1450 Ft. 2 1/16" Deg. off

HOURS

On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1000	14"	64	7½
		1000	18"	52	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
800	34	9.1			Water
1000	33	9.1			Gel 1200
1200	34	9.2			Sawdust 10 bags
200	35	9.2			

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

	From	To	Hrs.
DRILLING	800	1100	3
Totco @ 1411 2 1/16°	1100	1130	1/2
DRILLING	1130	330	4
Totco @ 1450	330	345	1/4
TRIP out of hole	345	400	1/4
			8 HRS

Driller Jim Hooks

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

From	To	Hole Made	Hole Size	Formation
1650			12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	13	2	20	466.55	REAMER 6-62'

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	4	9"		121.34		
DATA	12	7"		345.21	80M	68M

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							

Bit Serial No. 765687 Table R.P.M.

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO 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
					Drill String Stabilized For Deviation
					1 - 12¼ - Bit Reamer (Grant) at bit.
					1 - 12¼ - String Reamer (") 30' above bit
					1 - 12¼ - Boot Stabilizer (") 60' above bit.

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

	From	To	Hrs.
TRIP OUT	4	6	2
MAKE UP REAMER & STABILIZER	6	10	4
PICKUP 3 - 7" DC.	110	111	1
RUN IN	11	12	1
			8

Driller T. E. Hammerman

CLASSES OF TIME BREAKDOWN

TRIP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
FISHING: TRIPPING: W.O.C. W. O. ORDERS: MISCELLANEOUS: WORKING PIPE:
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.-10-54)-P.P.Co.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 12

LOCATION NW LSD SEC TWN RGE W Contractor I.C.E. UNIT 3 Type Rig NAT 100 Month DEC. Day 22 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1308	1382	74	12 1/4	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	10	2	17	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	9	7"		261.69	60M

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	56	10:15 AM				10-12		

Bit Serial No. 726824 Table R.P.M. 120

Jet or Conventional - Nozzle Size

SURVEYS

Kind TOTCO at 1307 - 1338' Ft. 2° 3½° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	4	Compound	1000	14"	74	7 1/4
No. 2	8		1000	18"	53	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:00	37	9.4			Gel 700 lbs
2:00	35	9.4			
4:00	34	9.3			Water
1:00	33	9.1			Sweet Dispersion

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12	1:45	1 3/4
TOTCO @ 1307	1:45	2:15	1/2
DRILLING	2:15	4:30	2 1/4
TOTCO @ 1338	4:30	5	1/2
DRILLING	5	8	3
			8 HRS

Driller Ian Coryll

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1382	1403	21	12 1/4	Shale.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	11	—	26	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	9	7"		261.69	76M 60M

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	56	10:15 AM	12:30	12 3/4	1403	10 -	121	
6	YSI							

Bit Serial No. 726824 - EG:4092 Table R.P.M. 120

Jet or Conventional - Conv. Nozzle Size

Kind Totco at 1368 Ft. 3 1/8 Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			1000	14"	64	7 1/4
			1000	14"	50	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:00	33	9.2			Water
10:00	35	9.2			Gel
12:00	37	9.2			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
B.T.	5	1	3	1	
		2	13		

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling Controlled Drlg.	8:00	10:15	2 1/4
Totco @ 1368 - 3 1/8	10:15	10:45	1/2
Controlled Drlg.	10:45	12:30	1 3/4
Totco @ 1403	12:30	12:45	1/4
Trip out of hole	12:45	2:15	1 1/2
Service Rig change B.T.	2:15	3:00	3/4
Run in hole	3:00	3:45	3/4
Install Testum in Saver sub and Kelly	3:45	4:00	1/4

Driller Jim Keeby

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1403	1472	69	12 1/4	SAND + SHALE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	11	2	18	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	9	7"		261.69	60M

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	YSI	5:00 PM				18-20		

Bit Serial No. EG4092 Table R.P.M.

Jet or Conventional - CONV. Nozzle Size

Kind TOTCO at 1403 Ft. 3 1/16° Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6 1/2	14 60	2 1/2	14	65	7 1/4
	6 1/2		1000	18	60	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:30	35	9.1			Water
8:30	34	9.1			75 lbs CAUSTIC SODA
10:15	36	9.1			150 lbs CARBONOX
11:15	35	9.1			400 lbs GEL
					100 lbs CELLEX

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUNNING IN	4	5	1
DRILLING	5	10:30	5 1/2
TOTCO @ 1460	10:30	11:00	1/2
DRILLING	11	12	1

Driller F. 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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ 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. 12

Unit 4 LSD. NW SEC. TWN. RGE. W. Contractor I.C.E. Type Rig NMT #3 Month DEC. Day 21 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
1032	1198	166	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	8	2	16	383.03	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	9	7"		261.69	72M	60M

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	S6	9:30 AM				25M	243	

Bit Serial No. 745655 Table R.P.M. 85

Jet or Conventional - CON Nozzle Size

Kind TOTCO at 1100 Ft. 1⅛° Deg. off

SURVEYS

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	8	Compound	750	14"	67	7¼
2	8			18"	32	6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	34	8.6			500# Gypsol
200	35				Water
400	36	9.0			Directional sketch
600	37	9.1			
730	37	9.2			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
ON CONNECTIONS			
WORKING TIGHT HOLE	12	145	1¾
DRILLING	145	430	2¾
TOTCO	430	5	½
DRILLING	500	800	3

Driller Orval Klein

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

From	To	Hole Made	Hole Size	Formation
1198	1282	84	12¼	SHALE-SAND

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	9	2	25	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	9	7"		261.69	74M	60M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
4	S6	4:30 PM	3 PM	16½	1282	30	332	

Bit Serial No. 745655 Table R.P.M. 60

Jet or Conventional - CON Nozzle Size —

Kind TOTCO at 1267 Ft. 3⅛ Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8	Compound	1000	14"	76	7¼
8		1000	18"	32	6½

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	37	9.4			WATER
1200	38	9.4			

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

	From	To	Hrs.
DRILLING	8	3	7
TOTCO	3	315	¼
TRIP OUT	315	4	¾
HOLE TIGHT @ 1040-980			8 HRS

Driller [illegible]

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

From	To	Hole Made	Hole Size	Formation
1282	1308	26	12¼	Shale & Sand

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	10	—	30	383.03	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	4	9"		121.34	DRILLING STRING	DRILL COLLARS
DATA	9	7"		261.69	74	60

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
5	SL	10:15 PM				10-12		

Bit Serial No. 726824 Table R.P.M. 120-130

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
1¾	2	Compound	800#	14	44	7¼
1¾	1		800#	18	51	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1030	39	9.3			Water
1130	37	9.4			

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

	From	To	Hrs.
Hole 980 - 850 lay down	400		
Lay Dir out of hole		615	2¼
Pick up Bit Survey	615		
Rig install mud pump			
Rig up Schlumberger Install Logging and		1045	4
Clean out 1100 - 1282			
Drilling	1200	1200	13/4

Driller Jim Kerbs

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. 11

Toe Stony LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____ IV-W.T. Contractor Co. Tools Type Rig Nat #3. Month DEC. Day 20 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950.				

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 ____

MUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1		8		14"		7 1/4
No. 2		8		18"		6 1/4

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.	12 00		
Digging mousehole		4 00	8.

Driller Clifford Kaiser

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

From	To	Hole Made	Hole Size	Formation
950			12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	5	—	30	383.03	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	9	7"		261.69	60M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	S6							

Bit Serial No. 745658 Table R.P.M. ____

Jet or Conventional - CON 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.
PUT IN MOUSE HOLE	8	9	1
THAW OUT D. COLLARS	9		
& TONGS. RUN IN HOLE		3	6
PRESSURE TESTED BLIND RAMS OK			
10. MIN. 1750 ~~2000~~ P.S.I			
PRESSURE TESTED PIPE RAMS O.K.			
10. MIN 1750 ~~2000~~ P.S.I			
PRESSURE TESTED HY DRIL 1750 P.S.I			
WORK ON PIPE RAMS	3	4	1

Driller W. Coghill

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

From	To	Hole Made	Hole Size	Formation
950	1032	82	12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	6	2	down	383.03	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	4	9"		121.34	DRILLING STRING / DRILL COLLARS
DATA	9	7"		261.69	60M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	S6	4 30				10-25		

Bit Serial No. 745655 Table R.P.M. 85-110

Jet or Conventional - CON Nozzle Size ____

Kind ____ at ____ Ft. ____ Deg. off ____

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		350	14"	65	7 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	water.				Water
10 00	31				Soda Ash 300
					Cellex 50#
					Gel 1600

Pressure Test Formation to 500 P.S.I

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
Bled back 100 PSI. Pumped to 500 P.S.I.		Pumped only took 1/2 bbl.	took 1/2 bbl.	shut in	

	From	To	Hrs.
Work on Pipe rams	4 00	4 30	1/2
Drill out Float & shoe			
clean out to 4510'			
Pressure Test Formation to 500 PSI.	4 30	7 45	3 1/4
DRILLING Connections Light	7 45	11 30	3 3/4
Stuck while making	11 30		
Connection Drill @ 4" Dut			
could not get up to			
make connection		12 30	1/2

Driller Tim Kirby

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.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 10

I.O.E. STONY LSD ..... SEC. N.W.T ..... TWN ..... RGE ..... W. ..... Contractor I.O.E. ..... Type Rig NAT #3 NAT 100 ..... Month DEC. ..... Day 19 1965

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950				

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	INDICATOR WEIGHT OF TOTAL 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 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.
W.O.C.	12	8	8
HEADING UP			

Driller ..... Kippen

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

From	To	Hole Made	Hole Size	Formation
950				

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	INDICATOR WEIGHT OF TOTAL 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.
W.O.C.	8	4	8
HEADING UP.			

Driller ..... [illegible]

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	INDICATOR WEIGHT OF TOTAL 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.
W.O.C.	4[illegible]	10[illegible]	[illegible]
HEADING UP.			
WORK on hydril Lines etc	6[illegible]	12[illegible]	6[illegible]

Driller ..... Jim Korbl

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

I.O.E. STONEY LSD. 4 W.5. SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I.O.E. Type Rig NAT #3 NAT 100 Month DEC. DAILY DRILLING REPORT No. 9 Day 18 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950				

DRILLING STRING

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

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

WASH 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.
W. O. C.	12	8	8

Driller ..... Kyle .....

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

From	To	Hole Made	Hole Size	Formation
950				

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

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

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.
W. O. C.	8	4	8

Driller ..... [illegible] .....

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.

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

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.
W.O.C.			

Driller ..... Jim Kerbs .....

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. 8.

D.E.S.T. ONLY LSD ____ SEC ____ TWN ____ RGE ____ W. ____ N. W. T.

Contractor I. O. E. Type Rig NAT 3 Month DEC. Day 17. 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950			11 1/2"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2"	6	2	14'	254.22.	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3"	9"		83.76	DRILLING STRING / DRILL COLLARS
DATA	6	7"		170.46	64M / 28M.

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
						18.M.		87.

Bit Serial No. Reamer 688R Table R.P.M. 120.

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	~~Compounded~~		700	14"	52	7 1/4
No. 2				18"	41	6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	70	10.5			Water
2 00	67				
4 00	70	10.4			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Reaming from 863 - ~~905~~ 950	12 00	4 00	4.
Circulating Hole Clean	4 00	4 30	1/2
Trip out (Measure out)	4 30	5 30	1.
Rigging up to run casing	5 30	6 30	1.
Running casing 13 3/8"	6 30	8 00	1 1/2

Driller Clifford Kippen

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

From	To	Hole Made	Hole Size	Formation
950				

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					

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 28 Jts. - 875.00 Ft. - 13 3/4 - J.S. - 54# 8 Rd. S.T.&C. Rge 2 - casing cemented w/625 sack Cement Fondu. - Slurry wt. 14. to 14.5 Plug down @ 4:58 P.M. Csg. Landed @ 897.16' - K.B.					

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

	From	To	Hrs.
RUNNING 13 3/8 CASING	8		

Driller Lobeyhill

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

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.
Cementing Csg. & Bump Plug.	1 00	5 30	1 1/2
Clean out cellar.			
W.O.C.	5 30	12 00	6 1/2

Driller Tim Kelly

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. V

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. 7

LSD. ____ SEC. 16 TWN. 11 RGE. W.W.T. W. ____ Contractor I.O.L. Type Rig NAT #3. Month Dec. Day 16 19 65

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950		17½		

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	5	—	20	254.22	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83.76		
DATA	6	7"		170.46	56M	28M

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
						10-15		112
						20		

Bit Serial No. Reamer 688R Table R.P.M. 75-90

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	5-½	2	350	14"	64	7¼
No. 2		2		18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1230	65	10.2			Water
200	65	10.3			200# Gel
600	75				Shoveled ditch.
730	75	10.4			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Reaming 12¼" to 17½"	1230	345	3¾
Trip out.	345		
CHANGE REAMERS.			
Cutting off S, Welding on			
different pilot Bit.		515	1½
Trip in Hole	515	600	¾
Reaming 12¼" to 17½"	600	800	2
from 636 to 748			

Driller Clifford Kilgan

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

DEPTH

From	To	Hole Made	Hole Size	Formation
			17½	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	5	2	19	254.22	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83.76		
DATA	6	7"		170.46		28M

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
								61

Bit Serial No. REAMERS 688R Table R.P.M. 75

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
430	65	10.4			Gel 500#
1000	70	10.5			Water
1200	76	10.5			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Reaming 12¼" to 17½"	8		
From 748 to 809-61'		115	5¼
TRIP OUT- CHANGE REAMERS	115		
WELD ON PILOT BIT		315	2
SERVICE RIG	315	330	¼
TRIP IN	330	4	½

Driller Joe Corbett

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

DEPTH

From	To	Hole Made	Hole Size	Formation
950			17½	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	18	1	27	254-22	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83-76		
DATA	6	7"		170.46	56M	28M

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	Reed	439M				12-15		54

Bit Serial No. Reamer 688R Table R.P.M. 85-110

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
		700	14"	52	7¼
		700	18"	51	6¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	64	10.5			Water
600	75	10.5			
800	75	10.5			

CORING

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

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRIP IN Add DIPKUP 2 stds	400	430	½
REAMING 12¼ hole TO 17½"	430		
hole 809-858		945	5-1/4
TRIP out of hole	945		
& clean Balled bit		1045	F
TRIP in hole	1045	1130	¾
REAMING from 858-863.	1330	1200	½

Driller Jim Kerby

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher A. L. Price Approved by ____

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 6

LSD STONY SEC. TWN. RGE. W. W.M. W.T. Contractor I.O.E. Type Rig RIG #3. Month DEC. Day 15 1965

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
930	950	20	12¼"	

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
950			17½	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
950			17½	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"				161.34	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	1	1	5	254.22	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½				254.22	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83.76	DRILLING STRING / DRILL COLLARS
DATA	3	9"		3355	2414

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"	83.76		DRILLING STRING / DRILL COLLARS
DATA	6	7"	170.46		54m / ~~2414~~

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83.76	DRILLING STRING / DRILL COLLARS
DATA	6	7"		170.46	54m / 24m

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	S6	12 15 pm	1 45 pm	12½	950	25M	175	
Reaming		4 3/4 pm				5M		215

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
						~~5m~~		218
						10-15M		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
REAMER 17½		4 00 pm				10-15 20		

Bit Serial No. 732880 — Table R.P.M. 85

Jet or Conventional - Con — Nozzle Size

Bit Serial No. — Table R.P.M. 85

Jet or Conventional - — Nozzle Size

Bit Serial No. ? — Table R.P.M. 85

Jet or Conventional - — Nozzle Size

SURVEYS

Kind Totco at 950 Ft. 1¼° Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	3½	3	400	14"	64	7¼
2		1		18"		6¼

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7¼		300	14	64	7¼
2		1		18		6¼

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	~~7¼~~		300	14"	64	7¼
2				18"		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	65	10.1			Water
7 00	75				

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 00	70	10.1			Gel 100#
10 00	60	10.1			Water
12 00	65	10.1			
2 00	65				

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	63	10.1			Water
6 00	61	10.1			Gel 200#
8 00	60	10.1			
10 00	63	10.1			

CORING

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

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

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling Totco at 950'	12 00	1 45	1 3/4
Layed down Drill Pipe one 9" collar.	1 45	2 00	1/4
Making up reamer welding on pioler Bit.	2 00	3 30	1½
Reaming Picked up one 9" Drill Collar and 3 7" D.C.	3 30	4 30	1
	4 30	8 00	3½

Driller Clifford Tupper

	From	To	Hrs.
Drilled up 3 - 7" D Collars	8	8 15	¼
Reaming From 215' - 433 12¼ to 17½ 218'	8 15	4	7¾
			8 HRS

Driller M. Kerby

	From	To	Hrs.
~~Reaming~~			
Reaming 12¼ hole To 17½ from 433 - 1636.	4 00	12 00	8
Hole Took mud from 570-620			
			~~8~~ 8 HRS

Driller Tim Kerby

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. _____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____ 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. 5

= STOR. LSD. P-50 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor I O E Type Rig NAT #3 Month DEC Day 14 1965

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
~~682~~ 682	767	75	12 1/4	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	6	—	5	169.64	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83-58		
DATA	3	7"		86.06	54 M	22 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
2	YT1A	12 30 P.M.				8-5-10		

Bit Serial No. E34332 Table R.P.M. 102

Jet or Conventional - CONV. Nozzle Size

SURVEYS

Kind TOTCO at 680, 710 Ft. 10 1/2° Deg. off

FLUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		350	14	66	7 1/4
No. 2		6		18		6 1/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	115	9.8			WATER
2 00	120	9.8			
4 00	125	9.8			200 lbs GELL.
6 00	120	9.8			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12 00	1 45	1 3/4
CIRCULATE - SURVEY	1 45	2 15	1/2
DRILLING	2 15	5 15	3
CIRCULATE - SURVEY	5 15	5 45	1/2
DRILLING	5 45	8 00	2 1/4
			8

Driller Herb Ray

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
767	841	74	12 1/4	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	6	—	11	256.41	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83.58		
DATA	6	7"		172.83		32 M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	YT1A	12 30 P.M.	8 30 A.M.	20.	775	10 M.	368.	
3	56	12 15 P.M.		3 3/4		17 M.		

Bit Serial No. E34332 - 732880 Table R.P.M. 82.

Jet or Conventional - CON. Nozzle Size

Kind Totco at 775 Ft. 1/2° Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4 1/4	3	400	14"	67	7 1/4
	2		18"		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 30	85	9.9			Water
2 00	70				100 # Gel
3 30	70	9.9			Shoveled ditch

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Drilling	8 00	8 30	1/2.
Totco Trip out.	8 30	9 15	3/4.
Service Rig, Picked up 3 DC.	9 15	10 30	1 1/4.
Trip in Reamed out From 410 to 520	10 30	12 12	1 3/4.
Drilling	12 15	4 00	3 3/4

Driller Clifford Kuppin

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
841	930	89	12 1/4	SURFACE HOLE

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	7	—	20	256.41	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83.58		
DATA	6	7"		172.83	60 M.	32 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	56	12 15 P.M.				20-25		

Bit Serial No. 732880 Table R.P.M. 88

Jet or Conventional - CON Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		425	14	63	7 1/4
	2		18		6 1/4

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	15	9.9			
6 00	60	10.0			water
8 00	60	10.0			
11 30	60	10.0			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
DRILLING	4	12	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 [signature] Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. I-50 N.W.T.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 4

Ft. Simpson LSD. SEC. 30 TWN. P.GE. W. Contractor I.O.E. Type Rig NAT #3 Month DEC. Day 13 1965

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
229	269	40	12¼	GRAVEL

2nd Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
269	590	321	12¼"	

3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
590	~~592~~	102	12¼	SURFACE HOLE

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½		2	19		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
COLLAR	3	9"		83.58		
DATA	3	7"		86.06		

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½"	12.	—	Down	169.64	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
COLLAR	3	9"	3"	83.58		
DATA	3	7"		86.06	50M.	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	5	1	18	169.64	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
COLLAR	3	9"				
DATA	3	7"			52M	22M

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 RR	DT	1 30 PM				7-12		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1 RR	DT	1 30 PM	11 30 AM	10.	407	15M.	~~407~~	
2	YTIA	12 30		3½				

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	12. 30 PM				8-10M		

Bit Serial No. 32364 Table R.P.M. 70

Jet or Conventional - CONV. Nozzle Size

Bit Serial No. 32364 E34332. Table R.P.M. 120

Jet or Conventional - Con. Nozzle Size

Bit Serial No. E34332 Table R.P.M. 110

Jet or Conventional - CON Nozzle Size

SURVEYS

Kind at Ft. Deg. off

Kind TOTCO at 408 Ft. ½° Deg. off

Kind TOTCO at 590 1° Ft. Deg. off

MUD PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	3½		350	14	64	7¼
2	1	7	200	18	60	

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7½		375	14"	68	7¼
2		7		18"		6¼

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	7½		350	14	66	7¼
2		8		18		6¼

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	53				~~Gel~~ lbs.
2 00	100				1500 lbs GEL
2 30	TOO	HEAVY TO	MEASURE		
7 00	80				300 lbs Soda Ash

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8 30	100	9.4			Water
10 00	72				1200# Gel
12 00	90	9.6			10-Sax sawdust
2 00	65				
3 30	85	9.8			

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4 00	105	9.7			Gel 300#
1 00	65	9.7			Water
2 00	75	9.7			
10 00	115	9.8			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
GRAVEL @	220	240			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
		7"			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
MIX MUD - WORK TIGHT HOLE	12 00	1 30	1½
DRILLING - GRAVEL	1 30	2 30	1
REPAIR PUMP	2 30	3 00	½
CLEAN TO BOTTOM	3 00	3 45	¾
WORKING TIGHT HOLE	3 45		
THROUGH GRAVEL		5 00	1¼
DRILLING	5 00	6 30	1½
REPAIR PUMP	6 30	7 00	½
DRILLING	7 00	8 00	1
			8

Driller Lockers

	From	To	Hrs.
Drilling	8 00	11 30	3½
Totco at 400' ½°	11 30		
Trip out of Hole, In Hole		12 30	1.
Drilling	12 30	4 00	3½

Driller Clifford Kiggan

	From	To	Hrs.
DRILLING	4	5 15	1¼
CIRC & TOTCO	5 15	5 30	¼
DRILLING	5 30	12	6½
			8 HRS

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. I-50 N.W.T.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 3

Field FISHER LSD..... SEC. 50 TWN..... RGE..... W..... Contractor I.O.E. Type Rig NAT. #3 Month DEC. Day 12 19 65

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 188	From: 184.	From: 188 To: 229 Hole Made: 41 Hole Size: 12 1/4 Formation:
DRILLING STRING	Size-D.P.: Stands: Singles: Kelly: Drill. Collar Ft.: Core Bbl. Ft.	Size-D.P.: Stands: Singles: Kelly: Drill. Collar Ft.: Core Bbl. Ft.	Size-D.P.: 4 1/2 Stands: — Singles: — Kelly: DOWN Drill. Collar Ft.: 169.64 Core Bbl. Ft.:
	DRILL COLLAR: Number: 3 OD: 9" ID: Length: 83.58 INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR: Number: OD: ID: Length: INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR: Number: 3 OD: 9" ID: Length: 83.58 INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
	DRILL DATA: Number: 2 OD: 7" ID: Length: 57.38	DRILL DATA: Number: OD: ID: Length:	DRILL DATA: Number: 3 OD: 7" ID: Length: 86.06 / 22 M
BIT RECORD	No.: IRR Type: DT Time On Bottom At: Time Pulled At: Total Hours Run: Depth Pulled: Weight On Bit M Pounds: FOOTAGE Drilled / Reamed	No.: Type: Time On Bottom At: Time Pulled At: Total Hours Run: Depth Pulled: Weight On Bit M Pounds: FOOTAGE Drilled / Reamed	No.: IRR Type: DT Time On Bottom At: 7:30 PM Time Pulled At: Total Hours Run: Depth Pulled: Weight On Bit M Pounds: FOOTAGE Drilled / Reamed
	Bit Serial No. 32364 Table R.P.M.	Bit Serial No. Table R.P.M.	Bit Serial No. Table R.P.M.
	Jet or Conventional - CONV. Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional 32364 Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind Totco at 200 Ft. 1/3 Deg. off	Kind CON. Ft. Deg. off
MUDSH PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke: 14; Strokes Per Min.; Liner Size: 7 1/4	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press: 1450; Length of Pump Stroke; Strokes Per Min.: 17; Liner Size: 7 1/4
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS: Gel 3700 # water; 11:00 AM: 40; 11:00: 55
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. W.O.C — 12:00 / 8:00 / 8	From / To / Hrs. W.O.C — 8:00 / 2:00 / 6. Trip in with 4 1/2" pipe to 184' to clean out Totco at 200'. — 2:00 / 4:00 / 2.	From / To / Hrs. Lay Down 4 1/2 Pipe — 4 / 4:30 / 1/2 Unplug 9" Bottom D. Collar — 4:30 / 5 / 1/2 Pick up D. Collars & — 5 Clean out to Bottom — 7:30 / 2 1/2 Drilling — 7:30 / 9:45 / 2 1/4 Work Tight Hole — 9:45 Mixing Mud — 12 / 2 1/4 8 HRS.
	Driller: Hooker	Driller: Clifford Kippen	Driller: W Eggleff

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 C Dennett Approved by .....

Form 34402 (300 bks.-10-64)-P.P.Co. N.W.T. T-50

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 2

0.f. Stony LSD. SEC. 250 TWN. RGE. W. Contractor I.O.E. Type Rig NAT #3 Month DEC. Day 11 1965

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
155				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			16		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83-58	DRILLING STRING / DRILL COLLARS
DATA	1	7"		2840	

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.	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
					200 lbs Soda Ash

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W.O.C Conductor	12:00		
Pipe Re-Cement		8:00	

Driller Hockley

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
155	188	33	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			13		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83.58	DRILLING STRING / DRILL COLLARS
DATA	2	7"		57.38	

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
3¾		600	14"	72	7¼

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
11:00	28	8.8			

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
W.O.C Conductor Pipe Cement	8:00	8:30	½
Cleaning out to Bottom of 12¼" Hole.	8:30	8:45	¼
Run in with 9" collars	8:45		
Picked up one 7" collar		9:45	1
Cleaning to Bottom	9:45	10:30	¾
Drilling	10:30	12:15	1¾
Lost circulation then around	12:15		
Conductor Pipe Cementing		4:00	3¾

Driller Clifford Kuppen

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
188			12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83.58	DRILLING STRING / DRILL COLLARS
DATA	2	7"		57.38	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
IRR	DT							

Bit Serial No. 3236 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
					Cut strips of sacking + sawdust ahead of 30 sack cement plug. unable to pump behind conductor.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
					Cleaned out to 200' and 2nd 30 sack portland cement plug.

	From	To	Hrs.
CEMENTING	4	5	1
Rig up to FEEL FOR PLUG	5	7	2
LOST CIRCULATION	7		
Rig up to RUN CEMENT Plug		9	2
RUN CEMENT PLUG	9	11	2
W.O.C.	11	12	

Driller Hockley

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. N.W.T.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 1

Ine Stony LSD F-50 SEC. ____ TWN ____ RGE ____ W. ____ Contractor T.O.E. Type Rig Mat #3 Month Dec. Day 10 1965

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
94	155	61	12¼	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			16		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83-58	DRILLING STRING / DRILL COLLARS
DATA	1	7"		28.40	

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 RR	D.T	12M	5.30 PM	5	155'	8-15	155	

Bit Serial No. 3236H Table R.P.M. 75-80

Jet or Conventional - Conv. 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	5½		225		32	7¼
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1.00	34				
3.00	33				
4.30	35				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
SPUDDED @ 12 M. 12:01 a.m.					

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING	12.00	5.30	5½
CONDUCTOR WASHED OUT			
CLEAN CELLAR - REPAIR	5.30		
TO RECEMENT		8.00	2½
			8

Driller T Lockey

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	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

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
					Added 20 sacks cement Lodo.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Welding Head on			
Conductor pipe	8	10	2
Working on Cement			
Hitches	10	12	2
Spotted 20 Sxs Cement Lodo	12	1.12	1½
Did not get good returns			
Preparing for second plug			
Ran 20 Sack plug - Displaced			
up by Conductor 0.30	0.4		3½
Plug in place 4 PM.			

Driller C. Kilpatrick

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
155			12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			16		

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	3	9"		83-58	DRILLING STRING / DRILL COLLARS
DATA	1	7"		28:40	

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.
SERVICED Rig			
W. O. C.	4	12	8

Driller M. Kilpatrick

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. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-64)-P.P.Co. N.W.T.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

2-E STONY LSD. I-50 SEC. ~~50~~ TWN. _____ RGE. _____ W. _____ Contractor _____ Type Rig _____ Month DEC. Day 9 1965

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	INDICATOR WEIGHT OF TOTAL 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

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
		20 bags			Zeogel 1500 lbs. [illegible] SALT

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W. O. C.	12:00		
CONDUCTOR PIPE		8:00	8:00

Driller J. Lockery

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	INDICATOR WEIGHT OF TOTAL 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.
W.O.C. (Conductor Pipe)	8:00	4	8

Driller Clifford Kippen

3rd Tour From: 4:00 p.m. To: 12:00 p.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	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
		9"				

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	DT							

Bit Serial No. 3236 Table R.P.M. _____

Jet or Conventional - CON 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.
W.O.C. CONDUCTOR PIPE	4	6	2
Rig up TO SPUD IN	6	12	6
			8 HRS

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 A. Bennett Approved by _____

Form 34402 (300 bks.-10-64)-P.P.Co. N.W.T.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. _____

I-50 E. Stoney LSD _____ SEC. 20 TWN _____ RGE _____ W _____ Contractor I.O.E. NAT. 3 Type Rig NAT. 100 Month DEC Day 8 1965

DEPTH

1st Tour From: 12:00 Midnight To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
35	94	59	12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
				55.39	SUBS 15.45

DRILLING STRING

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR	1	9"			DRILLING STRING / DRILL COLLARS
DATA	1	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
1A	OT					A.L.		

Bit Serial No. 32364 Table R.P.M.

Jet or Conventional - Nozzle Size

Kind TOTCO at 75 Ft. 94 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

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILLING CONDUCTOR HOLE	12⁰⁰	8⁰⁰	8

Driller L. Lockers

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.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

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.
Drilling Conductor Hole. R	8	4	8

Driller Clifford Kippen

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.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

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		

Set 80 ft. 20" conductor pipe. Cemented with 100 sacks. Cement Found. plug down 6 P.M.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
CEMENT CONDUCTOR PIPE	4	6	2
W.O.C.	6	12	6
Rig up To Spud in			
W.O.C 6 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 _____ Approved by _____

Form 34402 (300 bks.-10-64)-P.P.Co.

E. Stony LSD SEC 28 TWN RGE W. Stony I-50

IMPERIAL OIL LIMITED

Contractor I.D.E Type Rig NAT 3

DAILY DRILLING REPORT No.

Month Dec Day 7 1965

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILLING STRING

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL 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

MUSH 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
					Mix Gel 60 lbs. & Salt

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Mix Salt. in water			
Rig up F500 Pump with Lines + Heads.			
Test to Blow Kelly + Hose. Could not get Steam Through.			
used 75 to 80 lbs psi.			

Driller Jim Kerby

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
			12¼	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1A	OT							

Bit Serial No. 32364 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.
TRANS KELLY HOSE	9:00	10:00	2
DIG RAT HOLE	10:00	4:00	6
			8

Driller Hurley

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
0		35	12¼	Permafrost

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
			13	—	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1A	DT							

Bit Serial No. 32364 Table R.P.M. 70-95

Jet or Conventional - Conv 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.
Drill rat hole + install	4:00	5:00	1
Dismantle Rathole digger + put in Circ Line	5:00	6:00	1
Prepare to spud	6:00	7:00	1
Drilling	7	12:00	5
			8

Driller J. Finto

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