

IOE- STRONG POINT G-24

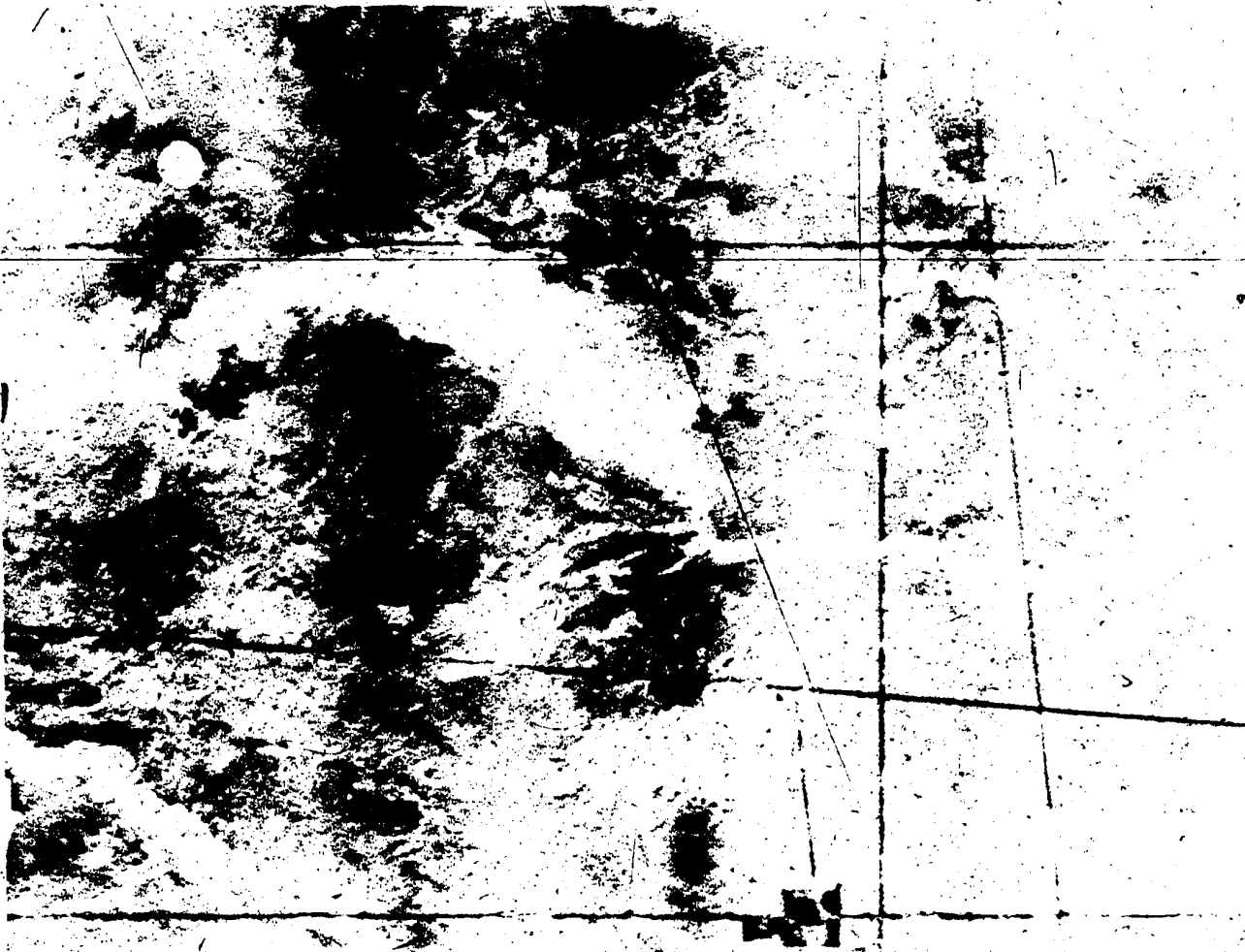
WELL NAME: ICE Strong Point 3-4.
FIELD: Milsect
Area:
LOCATION: Unit 3
Section 24
Grid 62-00, 120-45
Latitude 61-53-16
Longitude 120-49-36
From Established Reference Marker Seismic control. Air photos will be taken.

U.M.L.R. 61.92777 -- 120.92667
U.M.I. 3000216200120450

Rig Release Date: 16/2/69
Status
Information Release Date

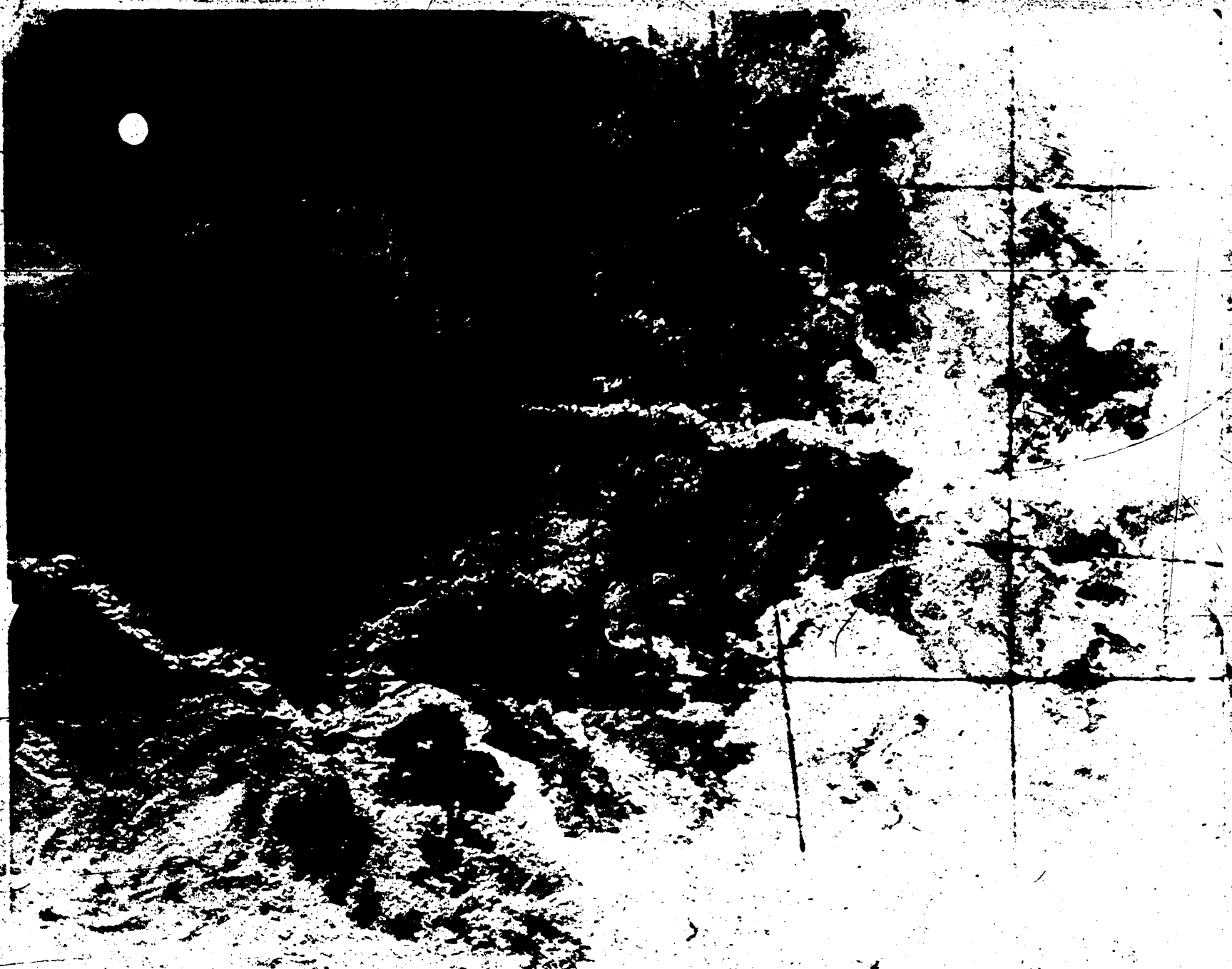
CHANGE OF NAME:

DATE RECEIVED	INDEX
8/1/69	Application for a Drilling Authority. Well Completion Data. Well History Report.
27-1-69	Application to Amend a Drilling Authority. Application to change a Well Name.
24/2/69	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.
14/3/69	Application to Commingle Production before Measurement. Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method. Data for Back Pressure Test on Natural Gas Wells — Vitter's Method. M.P.R. — Oil — Calculations. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Equipment Report. Well Card. New Service Well Report. Monthly Water Flood Operations Report Monthly Water Receipts and Disposal of Fluids Report Logs. Large scale Small scale



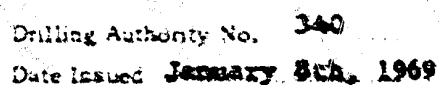
IOE Strong Point G-24-62-00-120-45

IMPERIAL OIL LIMIT
JOB K
JULY 28, 19
9300' ASL 6" LE
LINE 24



IOE Strong Point G-24-62-00-120-45

IMPERIAL OIL LIMITED
JOB K57
JULY 28, 1969
9300' A.S.L. 6" LENS
LINE 24-3



WELL COMPLETION DATA

Well name and number: **IDE Strong Point G-24**

Permit No. **4351** Lease No. _____

Imperial Oil Enterprises Ltd. Exploratory Licence No. 1104

(Permitter, Licensee, Lessee)

Imperial Oil Enterprises Ltd. Exploratory Licence No. 1104

Location: Unit **C** Section **24** Grid **62°00' 120°45'**

Latitude **61°53'16"** Longitude **120°49'36"**

From Established Reference Marker: **Seismic Control Air Photos**

Universal Well Location Reference **61° 88777 N. Lat. 120° 82667 W. Long.**

CASING RECORD

• GEOLOGICAL TOPS

CORE RECORD

LOG RECORD

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Feb 15/69	1600	1450	60 sack + 2% CaCl ₂ felt @ 1355								
Feb 15/69	522	425	60 sack + 2% CaCl ₂ felt @ 331. 5 sack in surface hole, p. 31.								
Feb 16/69			Cut off casing 3' below ground level & welded on steel plate.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.R.H.P.	F.S.I.R.H.P.	L.F.R.H.P.	F.F.R.H.P.	L.H.P.	F.H.P.	REMARKS
1	Feb 14/69	L. Keg River	1510	1650	90	90	90	651	617	49	64	773	763	Gas to surface in 4 mins., too small to measure. Rec. 566' black sulphurous mud.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
L13769	Gas	1510	1650	DST #1	
C3N-2-4402	Water	1510	1650	DST #1	

PRESENT STATUS OF WELL

Oil	Gas	Dry	Susp.
		X	

Company Imperial Oil Enterprises Ltd.

Signed by *[Signature]*

Title Supervisor - Well Records

Date March 14th, 1969

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



File No. 3-0
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

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

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

Name and number of well IOE STRONG POINT C-24
Location: Unit C Section 24 Grid 82° 00'; 120° 45'
Latitude 61° 53' 16" Longitude 120° 49' 36"
From Established Reference Marker Seismic Control and Air Photographs
Universal Well Location Reference 61° 58777 N. Lat. 120° 82567 W. Long
Permit No. 4351 Lease No. Imperial Oil Enterprises
(Permitter, Licensee, Lessee)

Date of commencement of proposed program

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at None
Gas at None
Water at None
Total Depth 2485
Date of last operations February 16, 1969
Present condition of well Standing - Ready to Abandon

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At-	Sacks of Cement and Additives	Amount Pulled
1. 7"	20	460.02	471.32	200 + 2½% CaCl ₂	None
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
1	1600-1450'	Lower Keg River	60 + 2% (CaCl ₂)	Feel in eight hours.
2	525-425'	Surface Sediments	60 + 2% (CaCl ₂)	Feel in eight hours.
3	Surface Plug with plate and identification marker.			

The following logs have been run IES, BHC Sonic, SNP, FDC
Other operations proposed Plug top of surface casing with cement and weld on plate.

Install four foot riser with well name bead welded on plate.

Operations to be carried out by Big Indian Drilling Co. Contractor Licence No. A11222
Address 11150 - Jasper Avenue, Edmonton Address

Responsible Agent in field John McNutt

Dated at Edmonton this 18 Day of February 19 69

Signed by [Signature] Company Imperial Oil Enterprises Limited

Title Division Development Manager Operator's Exploratory Licence No. 1104

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. E.H.J. Thoms on the 15th February 1969,
which includes Item 3.

Dated 24th February 19 69

[Signature]
Oil Conservation Engineer

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

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 340, concerning **IOE STRONG POINT G-24**.

(Name and Number of VPE)

The following amendments are required:

1. Because of the change in drilling contractor the surface casing program for this well has been modified. A string of new 7", 200, J-55 casing will now be landed at 450 feet, and this string will be cemented to surface.
2. The well will be drilled by Big Indian Drilling Company Limited, Rig No. 35 Business Licence A-11222.

Reasons for the amendments:

1. Economy.
2. Rig No. 35 is equipped with small diameter drill pipe and collars and will consequently drill a 6 1/4" rather than a 7 7/8" hole.

Dated at Edmonton, this 20th day of January, 1969.

Signed by

Title Drilling Engineer

Company IMPERIAL OIL ENTERPRISES LIMITED

(For Resource Management Division use only)

APPROVED

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

Date Jan 27, 1969

H. C. Blue
Oil Conservation Engineer

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

Drilling Authority No. 240

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
Oil & Mineral 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 Strong Point G-24
Location: Unit G Section 24 Grid 62° 00' 120° 45'
Latitude 61° 53' 16" Longitude 120° 49' 36"
From Established Reference Marker Seismic control. Air photos will be taken.
Universal Well Location Reference 61° 53' 16" N. Lat. 120° 49' 36" W. Long.
Elevation: Ground 711 K.B. feet above sea-level.
Well is expected to produce from Middle Devonian Carbonate formation at a depth of about 2400 feet. Expected total final depth 2800
Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 4351 Lease No. Acreage 50296
Permittee, licensee, or lessee Imperial Oil Enterprises Ltd.
Exploratory Licence No. 1104
Surface owned by Crown or Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Feet of Cement
1. 8 5/8	24.0	J-55	New	450	to surface
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment
Double gate plus hydril type blowout preventer.

Well will be drilled with Rotary Rig No. 2 by Tri-City Drilling Ltd.

(Drilling Contractor or company)

Responsible agent of applicant:—

Contractor's Business Licence No. 12559

At well John McNutt At registered office R. Horsfield
Address at rig Address 11160 - Jasper Ave. Edmonton

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

Dated at Edmonton this 3 day of January 1969

Signed by R. Horsfield Company Imperial Oil Enterprises Ltd.
Title Development Manager Operator's Licence No. 1104

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—
1. The Company will submit to this office on Tuesday of each week the latest reports received by radio on the progress of the well.

2. During well drilling and testing operations, every effort shall be made to ensure (over)

Dated 8th January 1969

Oil Conservation Engineer

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

LAND 52-26-1 (3-67)

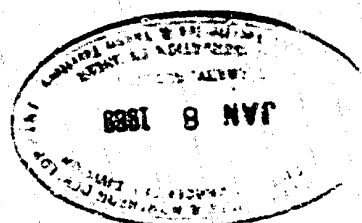
UNIQUE WELL IDENTIFIER: 30CG246200120450

that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or subsurface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

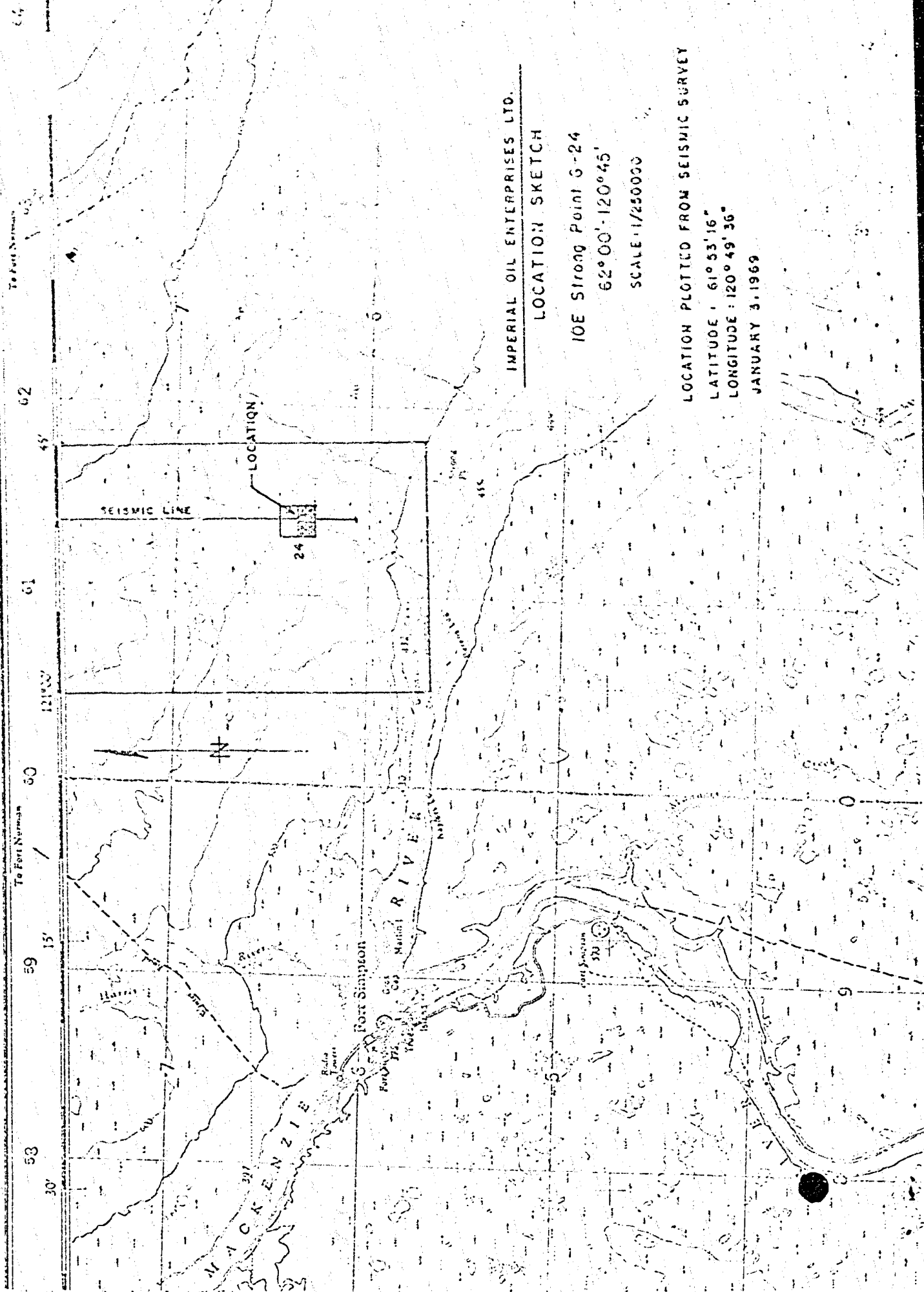
B.H.J. Thoms

B.H.J. Thoms
Oil Conservation Engineer.



DEPARTMENT OF NATIONAL DEFENCE ARMY SURVEY ESTABLISHMENT

FIRST EDITION



IMPERIAL OIL ENTERPRISES LTD.

LOCATION SKETCH

IOE Strong Point G-24

62°00' 120°45'

SCALE 1/250000

LOCATION PLOTTED FROM SEISMIC SURVEY

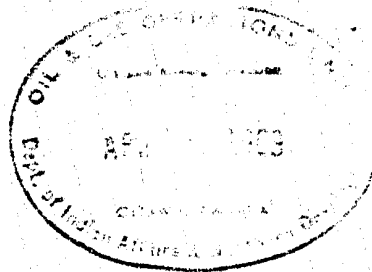
LATITUDE : 61°53'16"

LONGITUDE : 120°49'36"

JANUARY 3, 1969

IOE STRONG POLNT

G 24 62 00; 120 45



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Imperial Oil Enterprises Ltd.

Signed by: *J. Jacobeth*

Title: Supervisor - Well Records

Date: March 14th, 1969

SECTION I

SUMMARY OF WELL DATA

(A) Well Name - IOE Strong Point G-24

(B) Permittee - Imperial Oil Enterprises Ltd.

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

(D) Location - G-24 - 62°00'; 120°45'
Lat. 61°53'16"; Long. 120°49'36"

(E) Co-ordinates - N/A

(F) Permit Number - 4251

(G) Drilling Contractor - Big Indian Drilling Co. Ltd. - Rig No. 35

(H) Drilling Authority - 340 Issued January 8, 1969

(I) Classification - NFW

(J) Elevations - KB 721.4 Grd. 711.9

(K) Spud - January 28, 1969

(L) Completed Drilling - February 13, 1969

(M) FTD - 2485

(N) Status - D&A

(O) Rig Release - February 16, 1969

(P) Hole Size - 0-477 9 7/8"
477-2485 6 1/4"

(Q) Casing - 7" x 471 x C200 .

(R) Universal Well Location Reference - Lat. 61.88777° N.
Long. 120.82667° W.

(S) Unique Well Identifier - 300G246200120450

SECTION II

GEOLOGICAL SUMMARY

(A) Formation Tops

<u>Formation</u>	<u>Log</u>	<u>Sample</u>
Canol/Hare Indian		1130
Lower Keg River	1356	1365
Lower Keg Dolomite		1550
Chinchaga	1688	1686
Ernestina	2320	2330
Proterozoic	2418	2430

(B) Cored Intervals

<u>Number</u>	<u>Interval</u>	<u>Recovery</u>	<u>Zone</u>
1	1990-2006	6'	Chinchaga
2	2011-2069	58'	Chinchaga
3	2069-2128	58'	Chinchaga
4	2249-2307	55'	Chinchaga

(c) Core Description:

Core #1	1990 - 2006	Rec 6/16
	1990 - 1996	Anhydrite, very light grey, massive, dense, microcrystalline to very fine crystalline. Felted to sub-felted. Slightly dolomitic, faint very thin horizontal laminated in part. 30, 25, 23, 22, 20, 15, 15, 19, 17, 19, 15, 15, 15, 15, 15, minutes per foot.
Core #2	2011 - 2069	Rec 58/58
	2011 - 2030	Anhydrite, light grey brown, ruptured and brecciated, trace angular nodular and contorted bedded. Felted to microcrystalline. Dolomite micritic occurring as very thin laminae, non-parallel, discontinuous.
	2030 - 2037	Anhydrite, dolomite, light to medium, brown and grey - contorted bedding, stratanolites and birdseye. Bedded at base, microcrystalline to sub-felted. Minor fracturing.
	2037 - 2043	Anhydrite, light grey and brown, ruptured - brecciated, sub-felted texture.
	2043 - 2062	Anhydrite, very light grey and brown, angular nodular to streaky laminated, with 10% lithoclast.
	2062 - 2069	Anhydrite, very light brown, bedded nodular to streaky laminated, microcrystalline to sub-felted, trace angular nodular. 20, 23, 14, 23, 30, 20, 12, 12, 12, 7, 13, 9, 15, 16, 14, 17, 17, 16, 15, 15, 13, 13, 11, 11, 10, 10, 16, 16, 15, 15, 18, 15, 14, 16, 16, 14, 14, 14, 15, 15, 12, 15, 14, 14, 16, 14, 13, 11, 11, 11, 10, 11, 12, 10, 11, 10, 10 minutes per foot.
Core #3	2069 - 2128	Rec 58/59
	2069 - 2075	Anhydrite, very light brown, bedded nodular to streaky laminated, microcrystalline to sub-felted, trace angular nodular.
	2075 - 2080	Anhydrite, light grey and brown, bedded, laminated with 5% lithoclasts. Sub-felted to microcrystalline.

	2080 - 2088	Anhydrite, light grey and brown. Angular nodular, becoming ruptured and brecciated in part, sub-felted texture.
	2088 - 2092	Anhydrite, dolomitic, light brown, bedded, fractured, trace stylolites, microcrystalline and crystallotopic, 40% Dolomite, 60% Anhydrite.
	2092 - 2107	Anhydrite, light grey and brown, bedded nodular mosaic pattern with some streaky laminations of micritic dolomite. Felted to sub-felted.
	2107 - 2118	Anhydrite, light grey and brown, Brecciated and ruptured - sub-felted to felted texture, lithoclast 30%.
	2118 - 2124	Anhydrite, light grey, cloudy to very thin bedded, trace intraclasts 5%, lithoclast 10%.
	2124 - 2128	Anhydrite, light brown grey, dolomitic, contorted bedded to disturbed nodular mosaic - sub-felted. 21, 15, 13, 14, 15, 19, 16, 16, 14, 13, 12, 12, 12, 11, 14, 11, 13, 12, 12, 8, 6, 5, 10, 10, 11, 11, 9, 14, 11, 11, 14, 14, 13, 12, 12, 14, 13, 12, 13, 13, 13, 15, 13, 14, 16, 14, 16, 15, 13, 15, 14, 15, 15, 15, 13, 12, 14, 11, 15, minutes per foot.
Core #4	2249 - 2307	Rec 55/58
	2249 - 2304	Dolomitic, anhydrite and anhydritic dolomite, light brown and grey, cryptocrystalline to microcrystalline, dense. Occasional irregular laminations and their interbeds. Brecciated and pseudo brecciated in places. Dolomite 25%, Anhydrite 75%. 24, 17, 16, 16, 17, 16, 14, 15, 13, 14, 15, 11, 13, 15, 15, 16, 13, 13, 15, 10, 12, 11, 15, 15, 12, 12, 10, 10, 10, 11, 11, 13, 14, 15, 18, 15, 14, 16, 16, 16, 18, 15, 15, 17, 17, 15, 14, 15, 16, 16, 16, 16, 13, 15, 15, 18, 13, 15 minutes per foot.

(d) Sample Description:

0 - 90	Glacial drift
90 - 1130	Shale, green grey
1130 - 1365	Shale medium to dark grey
1365 - 1480	Limestone, micritic skeletal medium brown, bracks crinoids and cerals present trace bitumen; essentially tight with trace patchy dolomite with poor intercrystalline porosity and oil staining.
1480 - 1650	Interbedded limestone, dolomite and limy dolomite, micritic skelet and pellet, becoming skeletal micritic between 1510-1540. Light brown grey. The skeletal material is composed mainly of crinoids and brachiopods with the majority undetermined. Poor to fair intercrystalline and small vuggy porosity, occurring in patches. Trace oil staining.
1650 - 1690	Dolomite light grey brown, micritic, slightly anhydritic and silty.
1690 - 1990	Anhydrite, light grey brown, felted texture with 15% micritic dolomite, occurring as thin interlaminal.
Core #1, 2 & 3 1990 - 2128	See Core Description.
2130 - 2250	Anhydrite, light grey brown, felted texture with 20-30% dolomite, light brown, micritic, anhydritic in part, and trace dead oil staining.
2249 - 2307	Core #4, See Core Description.
2310 - 2320	Anhydrite, light grey, with 10% micritic dolomite.
2320 - 2390	Dolomite, light to medium brown, micritic skeletal, infraclast, trace to fair intercrystalline porosity, oil stained.
2390 - 2430	Dolomite, light brown, micritic, cryptocrystalline, tight.
2430 - 2490	Sandstone, quartzose, medium to coarse grained, well cemented and tight.

SECTION III

ENGINEERING SUMMARY

(A) Drill Stem Tests

DST #1 - 1510-1650 VO 90 SI 30/90

Lower Keg River

Gas to surface in 4 minutes, too small to measure. Recovered
566' black sulphurous mud.

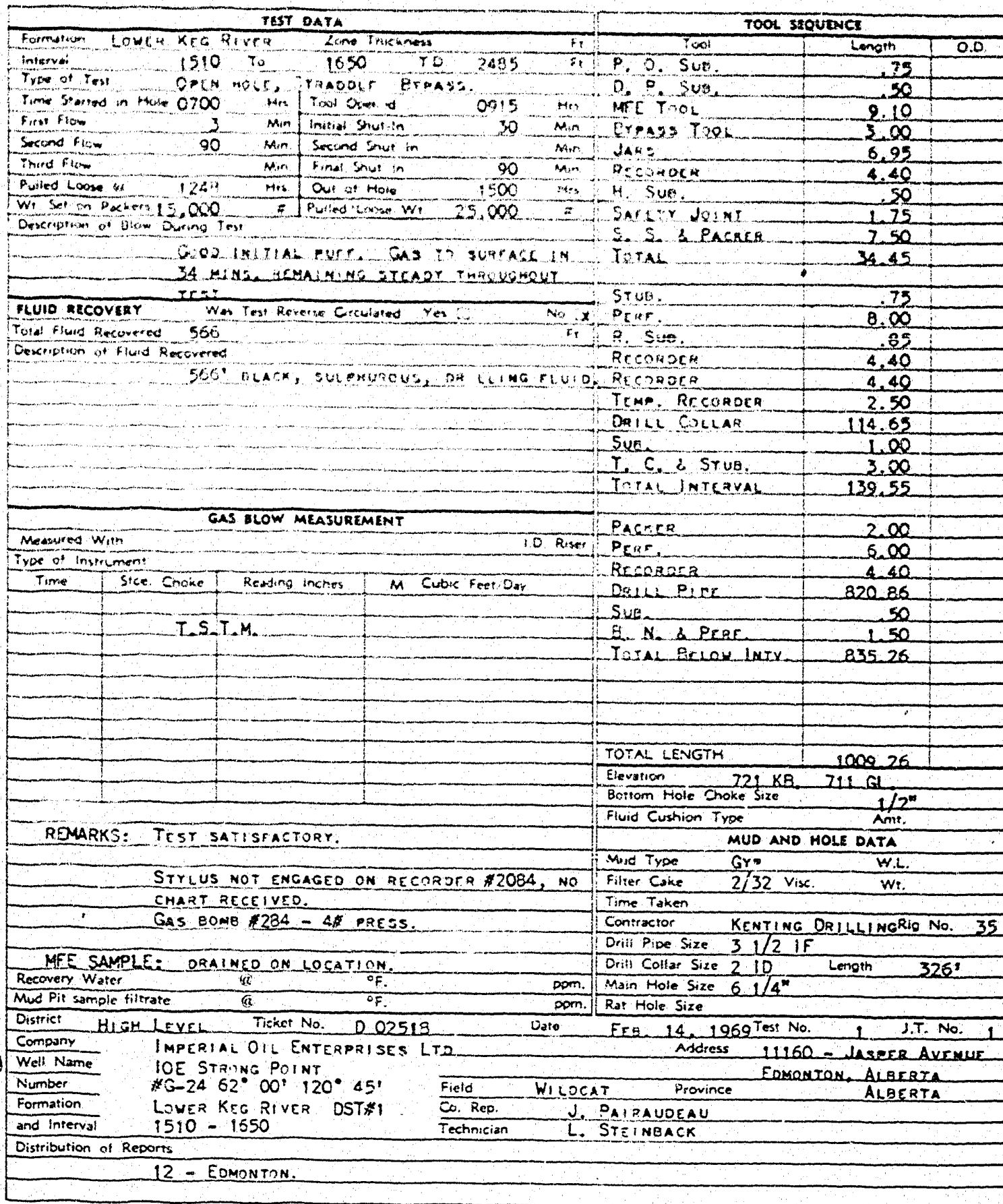
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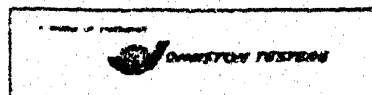
FP 49-64

SIP 651-617

(B) Casing Record

Ran 15 joints 460.02' of 7" J55 Range 2 20# ST&C Mannesmann
casing. Cemented with 200 sacks plus 2 1/2% CaCl₂ and landed
at 471.32 K.B.

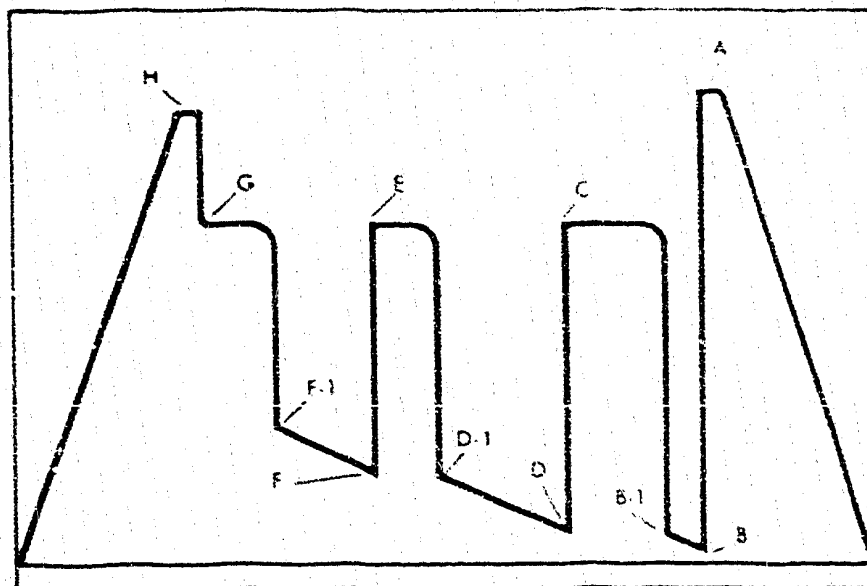




D 07518		PRESSURE DATA				FLUID SAMPLE REPORT	
INSTRUMENT NO.	AK1-2077	AK1-2084	AK1-2085	AK1-2116	Sample No.	506	
CAPACITY (gals)	4000	4300	4400	4400	Type	5"	
INSTRUMENT DEPTH (ft)	1501	1525	1529	1658	Depth	ft	
INSTRUMENT OPENING	INSIDE	OUTSIDE	OUTSIDE	OUTSIDE	Volume	2500 C.S.	
PRESSURE GRADIENT (psi/ft)					Sample Pressure	10 psig at Surface	
WELL TEMP (°F)	98°	98°	98°	98°	Gravity	API 4° °F	
INITIAL HYDROSTATIC	A 762#		773#	819#	Gas Oil Ratio	Cu Fr. bbl	
FIRST FLOW	B 32#		49#		Recovery		
B-1	37#		51#	A-1 925#	Cu Fr. Gas	20	
INITIAL SHUT-IN	C 644#		651#		cc Oil		
SECOND FLOW	D 52#		64#		cc Water		
D-1	236#		241#	RAN BELOW STRADDLE	cc Mud	1500	
SECOND SHUT-IN				A-2 827#	Total Liquid cc	1500	
THIRD FLOW							
FINAL SHUT-IN	G 617#		617#				
FINAL HYDROSTATIC	H 753#		753#				
REMARKS:	RECORDER AK1-2084 (MISSING)						

PRESSURE INCREMENTS								
POINT MINUTES	PRESSURE	T - Δ T	POINT MINUTES	PRESSURE	T - Δ T	POINT MINUTES	PRESSURE	T - Δ T
AK1-2077 INITIAL SHUT-IN			40	613	2.16	55	589	2.69
			85	615	2.09	60	594	2.55
0	37	-----	90	617	2.03	65	599	2.43
3	592	2.00				70	604	2.33
6	613	1.50				75	607	2.24
9	628	1.33	AK1-2085 INITIAL SHUT-IN			80	612	2.16
12	636	1.25				85	615	2.09
15	640	1.20	0	62	-----	90	617	2.03
18	642	1.17	3	592	2.00			
21	643	1.14	6	613	1.50			
24	643	1.13	9	633	1.33			
27	644	1.11	12	645	1.25			
30	644	1.10	15	647	1.20			
			18	650	1.17			
	FINAL SHUT-IN		21	650	1.14			
			24	651	1.13			
0	236	-----	27	651	1.11			
5	436	19.60	30	651	1.10			
10	454	10.30						
15	494	7.20	FINAL SHUT-IN					
20	514	5.65						
25	534	4.72	0	241	-----			
30	547	4.10	5	427	19.60			
35	559	3.66	10	455	10.30			
40	566	3.33	15	484	7.20			
45	578	3.07	20	508	5.65			
50	584	2.86	25	526	4.72			
55	592	2.69	30	542	4.10			
60	598	2.55	35	554	3.66			
65	602	2.43	40	565	3.33			
70	606	2.33	45	574	3.07			
75	610	2.24	50	583	2.86			

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 pumping pressures recorded for formation breakdown.

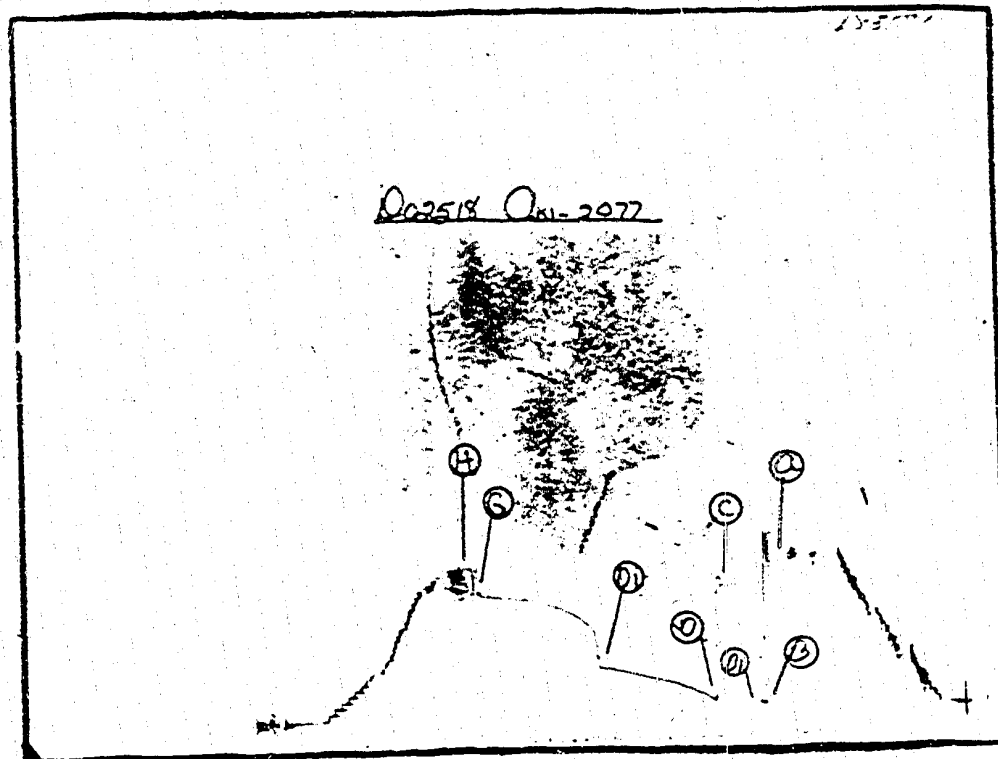


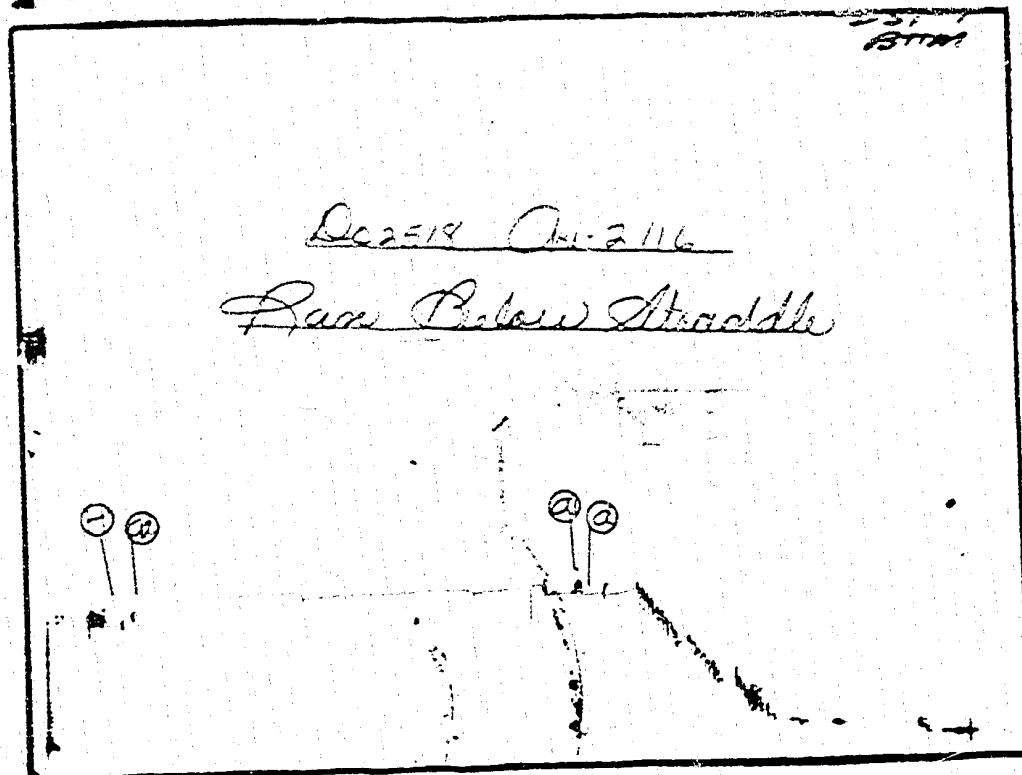
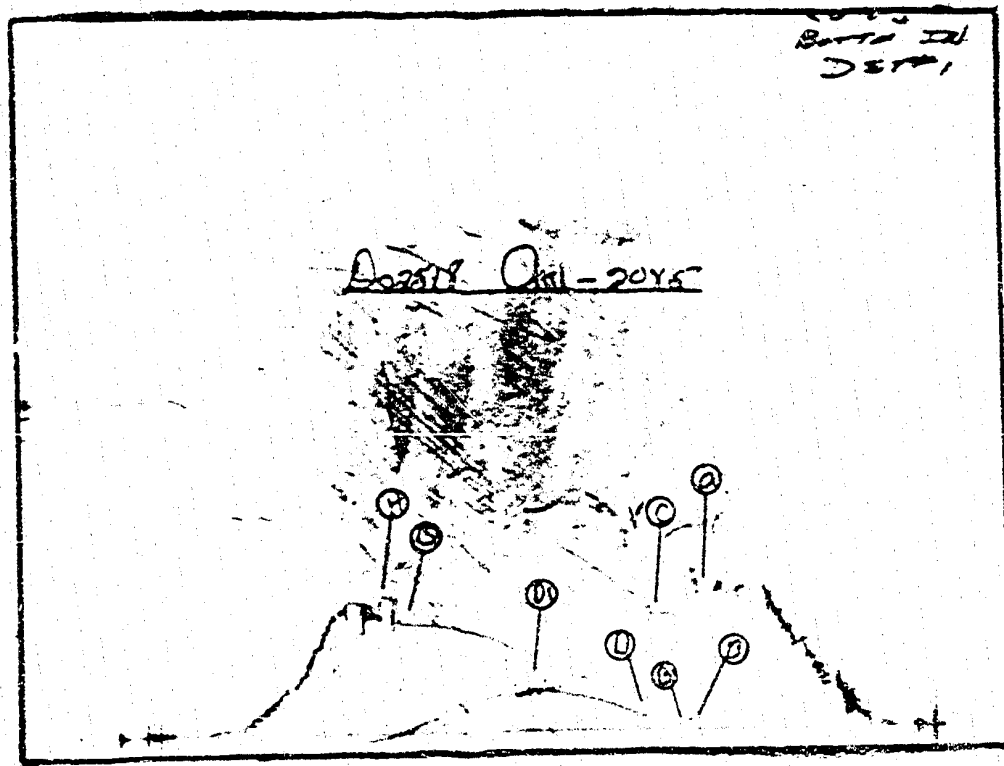
FIELD
REPORT NO
D 02518

RECORDER NO
AK1-2077

CAPACITY
4000

REPORTS
REQUESTED
12





(C) Bit Record

<u>NO.</u>	<u>TYPE</u>	<u>SIZE</u>	<u>DEPTH IN</u>	<u>DEPTH OUT</u>	<u>WRS. ON BTM</u>	<u>FOOTAGE</u>	<u>REMARKS</u>
1	OSC-3	9 7/8	0	328	18	328	
2	OSC-3	9 7/8	328	477	7	149	
3	OSC-3	6 1/4	477	1427	21 3/4	950	
4	SS-5	6 1/4	1427	1810	26 3/4	383	
5	OWV	6 1/4	1810	1820	2 3/4	10	
6	SS-5	6 1/4	1820	1977	20 1/4	157	
5	OWV	6 1/4	1977	1990	1	13	Junk Sub
	Diamond	6 13/16	1990	2006	5 1/2	16	Coring
5	OWV	6 1/4	2006	2011	1	5	Reamed 16'
	Diamond	6 13/16	2011	2128	26 1/2	117	Coring
7	OWV	6 1/4	2128	2234	14 1/2	106	Reamed 117'
8	OWV	6 1/4	2234	2249	3 1/4	15	
	Diamond	6 13/16	2249	2307	14 1/2	58	
8	OWV	6 1/4	2307	2385	12 3/4	78	
9	OWC	6 1/4	2385	2432	9 3/4	47	
10	W7R	6 1/4	2432	2435	2 1/2	3	Reamed 53'
11	SS-5	6 1/4	2435	2472	8 1/2	37	
12	SS-5	6 1/4	2472	2485	4 1/4	13	FTD

(D) Mud Report

Jan. 26	Gel 1500	Caustic Soda 50			
Jan. 29	Gel 2000	Caustic Soda 50			
Jan. 30	Gel 900	Caustic Soda 25			
Feb. 2		Caustic Soda 200			
Feb. 3	Gel 1000		Plaster 500		
Feb. 4	Gel 500	Caustic Soda 100	Starch 1000 Q Broxn 150	Preservative 100	
Feb. 5				Preservative 25	
Feb. 6	Gel 600			Preservative 25	
Feb. 7	Gel 2500	Caustic Soda 50	Starch 500 Q Broxn 50	Preservative 25	
Feb. 8	Gel 1500	Caustic Soda 100		Preservative 25	
Feb. 9	Gel 1400	Caustic Soda 50		Preservative 25	
Feb. 10	Gel 1000			Preservative 25	
Feb. 11				Preservative 25	
Feb. 12				Preservative 25	
Feb. 13	Gel 1000		Imper Mix . 150	Preservative 25	

Gel 13,900	Caustic Soda 625	Preservative 350	Q Broxn 200	Starch 1300
			Plaster 500	Imper Mix 150

(E) Deviation Record

<u>Totco At</u>	<u>Degrees Off</u>
150	3/4
356	1
543	2 1/2
636	4 1/2
727	3
890	2
1820	1 1/4
2430	4 1/2

(F) Abandonment Plugs

Plug #1 1600 to 1450 with 60 sacks plus 2% CaCl₂. Felt at 1385

Plug #2 522 to 425 with 60 sacks plus 2% CaCl₂. Felt at 331
5 sacks in surface hole

Cut off casing 3' below ground level and welded on steel plate

(G) Lost circulation Zones - None

(H) Blowouts - None

SECTION IV

LOGS

<u>Date</u>	<u>Type</u>	<u>Interval</u>
Feb. 13	IES	471-2484
Feb. 13	Form-Density	1300-2483
Feb. 13	SNP	1300-2484
Feb. 13	BHCS-CRC	471-2481
Feb. 13	Lithology	1300-2484
Feb. 13	Velocity Survey	471-2481

SECTION V

ANALYSIS

- (a) Core Analysis - None
- (b) Water Analysis - DST #1
- (c) Gas Analysis - DST #1
- (d) Oil Analysis - None



CORE LABORATORIES - CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS



File CBH-2-1402 Page 1 of 1

Company Imperial Oil Limited

Well IOE Strong Point G-24 K.B. Wildcat, Fort Grd. 711'

Location 61 53'16.00" N.L.
120 49'36.00" W.L. Field Simpson Area Province N.W.T.

Formation _____ Interval _____

Sampled from MFE Tool by _____

Date sampled _____ Date analyzed Mar. 15/69 Analyst A.M.

Recovery _____

Mud type _____ Water cushion _____

Resistivity 0.32 Ohm-meters @ 68 ofSpecific gravity 1.0160 @ 60°FpH 7.5 H₂S AbsentRefractive Index 1.340 @ 68°F

Total Solids:

Calculated 23,174 mg/literBy evaporation @ 110°C - mg/literBy evaporation @ 180°C - mg/literAt ignition - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
6,686	1,348	314	Pres.	Abs.	-	-	10,566	530	3,630	-	-

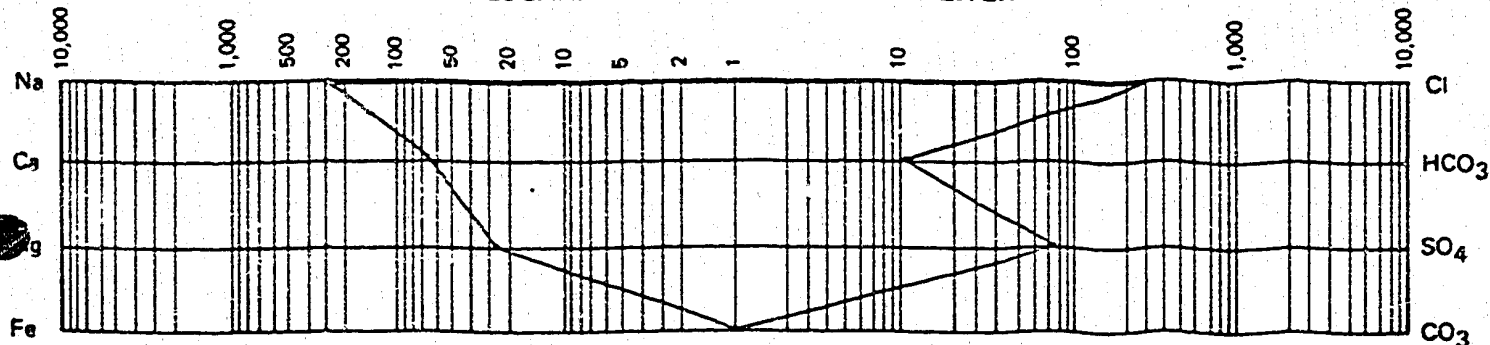
PER CENT CALCULATED SOLIDS

26.9	5.8	1.3	Pres.	Abs.	-	-	45.6	2.7	15.7	-	-
------	-----	-----	-------	------	---	---	------	-----	------	---	---

MEQ PER LITER

290.7	67.3	25.8	Pres.	Abs.	-	-	298.0	10.3	75.5	-	-
-------	------	------	-------	------	---	---	-------	------	------	---	---

LOGARITHMIC PATTERN MEQ PER LITER



IMPERIAL OIL LIMITED

No. 4202

March 12, 1969

CONFIDENTIAL

Mr. A.J. Chaput,
Edmonton, Alberta.

Attention: W. Henker/A. Milne

Subject: Laboratory Report No. L-13769
Analysis of one gas sample from ICE Strong Point
G-24, 620-00' - 1220-45'.

Reference: Memo dated February 17, 1969.

Please find attached three copies of Laboratory Report No. L-13769 covering the analysis of one gas sample from ICE Strong Point G-24, 620-00' - 1220-45'. The sample was taken from DST #1, a test of the interval 1510 - 1650 feet.

We found the sample to be badly contaminated with air. The composition that we report is one that we have reduced to an air-free basis.

Because of poor sampling conditions, we do not know how representative this sample analysis may be. However, the helium content that is indicated and the N_2/He ratio is of interest. The analysis could suggest a solution-type gas, a gas that had been differentially liberated from a reservoir fluid between bubble-point pressure and, for example, bubble-point pressure less 50 psi. While the N_2/He ratio might suggest a solution-type gas, the ethane-plus fraction tends to be low.

V. C. LARSON

By: _____
R. S. Buckles

HAI/Psz
attach.

cc: Conf. File
J. McBeth

IMPERIAL OIL LIMITED
PRODUCTION RESEARCH AND TECHNICAL SERVICE DEPARTMENT

CONFIDENTIAL

GAS ANALYSIS REPORT

LABORATORY REPORT NO. L-13769 DATE March 12, 1969
DATE SAMPLED _____ DATE ANALYSIS Feb. 24, 1969
SAMPLE OF IOE Strong Point G-24. SAMPLE NO. _____
62°-00' - 122°-45'
DST #1, Interval 1510 - 1650

<u>Component</u>	<u>Mols. %</u>	<u>G.P. Mcf.</u>
CARBON DIOXIDE	<u>0.45</u>	_____
HYDROGEN SULPHIDE	<u>-</u>	_____
HYDROGEN	<u>-</u>	_____
HELIUM	<u>0.11</u>	_____
NITROGEN	<u>23.98</u>	_____
METHANE	<u>71.03</u>	_____
ETHANE	<u>3.47</u>	_____
PROPANE	<u>0.80</u>	<u>.182</u>
ISO-BUTANE	<u>0.07</u>	<u>.019</u>
NORMAL BUTANE	<u>0.08</u>	<u>.020</u>
ISO-PENTANE	<u>0.01</u>	<u>.002</u>
NORMAL PENTANE	<u>-</u>	<u>-</u>
HEXANES PLUS	<u>-</u>	<u>-</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
TOTAL	<u>100.0</u>	<u>.223</u>

S.G. AIR = 1 .6845 (Calculated) S.G. AIR = 1 _____ (observed)

GROSS CALORIFIC VALUE, B.T.U./cu. ft. @ 60°F, 14.73 psia. Dry 804.7

@ 60°F, 14.73 psia & WATER SATURATED 795.1

REMARKS: Sample contained 76.61% air

ANALYSED BY: J. Szarka

SECTION VI

COMPLETION SUMMARY

- (a) Tubing Record - None Run
- (b) Perforation Record - Not perforated
- (c) Cementation Record -
 - Feb. 15/69 - Plug #1 - 1600-1450 with 60 sacks plus 2% CaCl₂
Felt at 1355 (Chinchaga)
 - Feb. 15/69 - Plug #2 - 522-425 with 60 sacks plus 2% CaCl₂
Felt at 331
 - Feb. 16/69 - 5 sacks in surface hole
- (d) Acidization and Fracturing - None
- (e) Back Pressure and Production Tests - None

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 20WELL NAME IOE STRONG PT Lsd. Sec. Twn. Rge. W. Contractor BIG INDIAN Month FEB Day 16 1969

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.																																		
From		To		Hole Made		Bit Size		Formation							From		To		Hole Made		Bit Size		Formation							From		To		Hole Made		Bit Size		Formation																										
DEPTH		2485																																																														
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		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL							DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL							DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL																		
COLLAR												DRILLING STRING							COLLAR										DRILLING STRING							COLLAR										DRILLING STRING																		
DATA																			DATA																	DATA																												
BIT RECORD		No.		Type		Time On Bit		Footage		WOB		RPM		Depth Pulled		Total Footage							No.		Type		Time On Bit		Footage		WOB		RPM		Depth Pulled		Total Footage							No.		Type		Time On Bit		Footage		WOB		RPM		Depth Pulled		Total Footage						
Bit Serial No.																							Bit Serial No.																					Bit Serial No.																				
Nozzle Size																							Nozzle Size																					Nozzle Size																				
SURVEYS		Depth										Deviation							Depth										Deviation							Depth										Deviation																		
PUSH PUMP RECORD		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												
No. 1		TOP PLUG # 2 @ 331'																																																														
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																		
		PLUG # 3 5 SKS CEMENT																																																														
		AND WELDED PLATE 3'																																																														
		BELOW SURFACE																																																														
CORING		Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery							Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery							Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery																		
		RIG ON STANDBY @ 8 AM																																																														
DETAIL OF OPERATIONS AND REMARKS																																																																
		W.O.C.																																																														
		RUN IN: FEEL FOR Plug # 2 @ 331																																																														
		LAY DOWN PIPE																																																														
		CLEAN CELLAR & LAY DOWN BOP'S																																																														
		WELD PLATE ON CASING																																																														
Driller		Paul Henderson																	Driller																			Driller																										

HEADING UP & DRG. OUT:
DRILLING:
REAMING:CLASSES OF TIME BREAKDOWN
TOTCO:
FISHING:
CIRCULATING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W.O. ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McF...

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 19WELL NAME 10E STRONG PT - E - 24 Lsd. Sec. Twn. Rge. W. Contractor BIG INDIAN Month FEB Day 15 19...

	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	Bit Size	Formation						From	To	Hole Made	Bit Size	Formation						From	To	Hole Made	Bit Size	Formation								
	2485										2485										2485												
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	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL					DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL					DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							
	COLLAR					DRILLING STRING					COLLAR					DRILLING STRING					COLLAR					DRILLING STRING							
	DATA										DATA										DATA												
BIT RECORD	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage			No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage			No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage					
	Bit Serial No. Jet ☐ Conventional ☐										Bit Serial No. Jet ☐ Conventional ☐										Bit Serial No. Jet ☐ Conventional ☐												
	Nozzle Size Bit Wear: T. B. G.										Nozzle Size Bit Wear: T. B. G.										Nozzle Size Bit Wear: T. B. G.												
SURVEYS	Depth Deviation										Depth Deviation										Depth Deviation												
	HOURS										HOURS										HOURS												
	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						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							
	RAN PLUG #1 1600-1450										RAN PLUG #2 525-425										RAN PLUG #2 525-425												
	CEMENTED WITH 60 SKS										CEMENTED WITH 60 SKS PLUS										CEMENTED WITH 60 SKS PLUS												
CORING	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery					Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery					Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery							
	TOP OF PLUG #1 @ 1355'																																
DETAIL OF OPERATIONS AND REMARKS	From To Hrs.										From To Hrs.										From To Hrs.												
	W.O.C. 12-8-8										Run in 26 STD ³ 8:00 8:30 1/2										Run in To FEEL FOR 4:00												
	LAYED DOWN D.C.										BREAK CIRC & Rig TO Cement. 8:30 9:00 1/2										PLUS NO ONE @ 1355' 5:00												
	PICKED UP 15 JTS										Run Plug #1 9:00 9:30 1/2										PULL OUT TO RUN PLUG 5:00												
	DRILL PIPE										PULL OUT & W.O.C. 9:30 4:00 1 1/2										NO TWO 6:00												
																					Rig TO CEMENT 6:00 6:30												
																					CEMENT PLUS NO TWO 6:30 6:45												
																					WOC + LAYING DOWN 6:45 12:00 5 1/4												
																				PIPE													
Driller: <u>Paul Henderson</u>										Driller:										Driller: <u>A. Noonan</u>													

HEADING UP & DRG. OUT: TOTCO: FISHING: CIRCULATING: CLASSES OF TIME BREAKDOWN: 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.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY? YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McF...

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 18

WELL NAME W.O. Strong point G-24 Sec. Twn. Rge. W. Contractor Big Indian Month FEB Day 14 1969

	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	Bit Size	Formation		From	To	Hole Made	Bit Size	Formation		From	To	Hole Made	Bit 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.	
	3 1/2			41	440		3 1/2			41	440								
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	15	4 3/4	7"	440	DRILLING STRING	DRILL COLLARS	COLLAR	15	4 3/4	2	440	DRILLING STRING	DRILL COLLARS	COLLAR				DRILLING STRING
BIT RECORD	DATA				31000	18.	DATA					31000	18.	DATA					
	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	
	Bit Serial No.	Jet ☐ Conventional ☐					Bit Serial No.	Jet ☐ Conventional ☐					Bit Serial No.	Jet ☐ Conventional ☐					
SURVEYS	Nozzle Size	Bit Wear: T. B. G.					Nozzle Size	Bit Wear: T. B. G.					Nozzle Size	Bit Wear: T. B. G.					
	Depth	Deviation					Depth	Deviation					Depth	Deviation					
	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
	On Line	Circulating				On Line	Circulating				On Line	Circulating							
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	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery	
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.			From	To	Hrs.			From	To	Hrs.						
	W. O. ORDERS	1200	1.15	1 3/4			FINISH RUNNING IN	8:00	8:45	3/4			FINISH HOISTING TAIL	4:00					
	WORK ON WATER LINES	1:15					PIPE TO AND TESTING	8:45	1:00	4 1/4			PIPE LOAD OUT TESTER	5:30					
	RUN IN DRILL COLLARS AND CIRC HOIST TO RUN TEST	1:45					HOIST SLOW	1:00	3:00	2			RUN IN W/ DRILL COLLARS	5:30	12:00				
	MAKE UP TEST AND RUN IN HOIST SHOW	3:30					BREAK DOWN TESTER	3:00	4:00	1									
	Driller	<u>Raymond</u>					Driller	<u>Paul Henderson</u>					Driller	<u>W. Moore</u>					

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES

NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McHart

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 17

WELL NAME IOE. Strong point G-24 Lsd. Sec. Twn. Rge. W. Contractor Big Indain Month FEB Day 13 1969

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	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation			
		2465	2486	21	6 1/4							2486	2492	6	6 1/4							2492			NIL				
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.		
		7 1/2	2011		41	440						3 1/2	2011		41	440													
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			
COLLAR		15	4 3/4	2"	440	DRILLING STRING				COLLAR		15	4 3/4	2	440	DRILLING STRING				COLLAR						DRILLING STRING			
DATA						31.22				DATA						31.000				DATA						18.000			
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled
		9	SSS	8 1/2	37	18m	40	2472	37			10	SSS	4 1/2	20	18	40	2492	20										
		10	SSS			18m	40																						
SURVEYS		Bit Serial No. <u>NO 781</u> Nozzle <u>3-10</u> Jet ☒ Conventional ☐								Bit Serial No. <u>NO 762</u> Nozzle <u>3-10</u> Jet ☐ Conventional ☐								Bit Serial No. <u></u> Nozzle <u></u> Jet ☐ Conventional ☐											
		Nozzle Size <u>3-10</u> Bit Wear: T <u></u> B <u></u> G <u></u>								Nozzle Size <u>3-10</u> Bit Wear: T <u></u> B <u></u> G <u></u>								Nozzle Size <u></u> Bit Wear: T <u></u> B <u></u> G <u></u>											
PUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			PUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			PUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		
		On Line	Circulating									On Line	Circulating									On Line	Circulating						
				1000	16	52	5							1000	16	50	5												
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
		12.00	45	9.9			GEL - 1000"					8.00	50	9.8			PRESERVATIVE - 25"										HOLE CORRECTION - 7'		
		6.00	50	9.8			IMPER mix 150"					10.00	50	9.8													2485 TD		
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery			CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery			CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery		
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.				DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.				DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			
		DRILL 6 1/4 HOLE		12.00	1.15	1 1/2						DRILL 6 1/4 HOLE		8.00	9.30	1 1/2						LOGGING		4.00	12.00	8			
		Rig SER		1.15	1.30	1/4						Rig SER		9.30	10.00	1/2													
		HOIST BIT NO 9		1.30	3.00	1 1/2						HOIST BIT NO 9		10.00	11.45	1 1/4													
		BREAK BIT AND JUNK		3.00								BREAK BIT AND JUNK		11.45	12.15	1/2													
		SUB CLEAN UP		3.30		1/2						SUB CLEAN UP		12.15	4.00	3 3/4													
		Run in HOLE		3.30	4.45	1 1/4						Run in HOLE																	
		BREAK CIRC		4.45	5.00	1/4						BREAK CIRC																	
		REAM 20'		5.00	5.15	1/4						REAM 20'																	
		DRILL 6 1/4 HOLE		5.15	8.00	2 3/4						DRILL 6 1/4 HOLE																	
		Driller: <u>Paul Henderson</u>										Driller: <u>Paul Henderson</u>												Driller: <u>Grand A Noonan</u>					

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:

CLASSES OF TIME BREAKDOWN

TOTCO: CONDITIONING MUD:
FISHING: TRIPPING:
CIRCULATING: 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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAYYES ☒ NO ☐

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McHugh

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 16WELL NAME JOE STRONG POINT #24 Sec. _____ Twn. _____ Rge. _____ W. _____ Contractor BIG INDAIN Month FEB Day 12 1969

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	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation				
		2419	2432	14	6 1/4							2432	2438	6	6 1/4							2438	2465	27	6 1/4					
DRILLING STRING	Size-D.P.	3 1/2	1980		41	440					Size-D.P.	3 1/2	1980		41	440					Size-D.P.	3 1/2	2011		41	440				
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR	15	4 3/4	2"	440	DRILLING STRING				COLLAR	15	4 3/4	2"	440	DRILLING STRING				COLLAR	15	4 3/4	2"	440	DRILLING STRING						
	DATA									DATA					31" 18"				DATA					31" 18"						
BIT RECORD	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage				
	7	OWC	9:34	40	14	72	2432	44		8	WTR	2:53	40	10/12	40	40	2435	3	28	9	SS-5	7:54	30	18"	40					
	8	WTR	56					25		9	SS-5	1:12	30	10/12	40															
	Bit Serial No. <u>65959</u> Jet ☐ Conventional ☐										Bit Serial No. <u>65789</u> Jet ☒ Conventional ☐										Bit Serial No. <u>NO 781</u> Jet ☐ Conventional ☐									
SURVEYS	Nozzle Size	3/8	1/4	Bit Wear: T. B. G.						Nozzle Size	3/8	1/4	Bit Wear: T. B. G.						Nozzle Size	3/8	1/4	Bit Wear: T. B. G.								
	Depth	Deviation								Depth	Deviation								Depth	Deviation										
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	On Line	Circulating					On Line	Circulating					On Line	Circulating					On Line	Circulating					On Line	Circulating				
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						
	12:00	47	9.9							8:00	47	9.9			PRESERVATIVE - 25				4:00	44	9.9									
	2:00	47	9.9							10:00	47	9.9			13.8.5				6:00	47	9.9									
																			10:00	45	10.00	12.6	8.5							
CORING	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery						
DETAIL OF OPERATIONS AND REMARKS	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.														
	12:00		3:30	3 1/2	8:00		8:30	1/2	4:00		9:30	5 1/2	4:00		9:30	5 1/2														
	Rig To Hoist		3:30	3:45	1/4	WORK JUNK SUB.		8:30	8:45	1/4	SURVEY @ 2430 - 4 1/2		9:30	10:00	1/2															
	Hoist For Bit		3:45	5:15	1 1/2	GALG.		8:45	9:30	3/4	Rig SERVICE		10:00	10:15	1/4															
DETAIL OF OPERATIONS AND REMARKS	MAKE UP JUNK SUB AND BIT		5:15	5:45	1/2	WORK JUNK SUB.		9:30	9:45	1/4	CHECK SURVEY AGAIN		10:15	10:45	1/2															
	Run in HOLE Show		5:45	7:30	1 3/4	Rig SERV CHECK BOPS		9:45	10:00	1/4	DRLG 6 1/4 HOLE		10:45	12:00	1 1/4															
	BREAK CIRC		7:30	7:45	1/4	DRLG.		10:00	11:00	1																				
	REAR		7:45	8:00	1/4	HOIST.		11:00	1:00	2																				
DETAIL OF OPERATIONS AND REMARKS	CHG. BITS + CLEAN JUNK SUB.					RUN IN.		1:00	1:15	1/4																				
	BREAK CIRC + WORK JUNK SUB.					DRLG.		1:15	2:00	3/4																				
						3:00		3:30	1/2																					
						3:30		4:00	1/2																					
Driller		<u>Paul Henderson</u>				Driller		<u>Paul Henderson</u>				Driller		<u>G. Noonan</u>																

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.:DID YOU
PREVENTER?

YES

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John A. M.

Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by John R. McElroy

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No.

WELL NAME LEE. STRONG POINT Lsd. Sec. Twn. Rge. W. Contractor Big Endain Month FEB Day 10 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation										
		2245	2260	15'	6 3/4"												2260	2293	33'	6 3/4"												2293	2310	17'	6 3/4"											
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.											
		3 1/2"	1802		41	440									3 1/2"		1768		41	440	64.32								3 1/2"		1832		41	440												
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL											
		COLLAR	15	4 3/4"	2"	440	DRILLING STRING								COLLAR		15	4 3/4"	2"	440	DRILLING STRING								COLLAR		15	4 3/4"	2"	440	DRILLING STRING											
		DATA														DATA															DATA															
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							
		7	ODV	3 1/4	15	18	6.2	2349								10		Q	11	44	12	7.85								1A		Q	1 1/2	58	12.00	7.5	2307									
		1	Q	3																									6 RR. OWD		K	3	18.00	7.5												
		Bit Serial No. <u>5116</u> ☒ Simplex Jet ☐ Conventional ☐														Bit Serial No. <u>310602</u> Jet ☐ Conventional ☐														Bit Serial No. <u>5116</u> Jet ☒ Conventional ☐																
		Nozzle Size <u>3/4</u> 1/4 Bit Wear: T. B. G.														Nozzle Size Bit Wear: T. B. G.														Nozzle Size <u>3/10</u> 1/4 Bit Wear: T. B. G.																
SURVEYS		Depth Deviation														Depth Deviation														Depth Deviation																
PUSH PUMP RECORD		HOURS														HOURS														HOURS																
		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size							On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size							On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
						1000	16	50	5											550	16	50	5											1000	16	50	5									
						500	16	50	5																																					
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													
		12.00	45	9.5											8.00	43	9.5			PRESERVATIVE — 25								4.00	98	9.6			GEL													
		6.00	43	9.5		9.5									10.00	41	9.5											6.00	39	9.7																
															12.00	38	9.6											8.00	36	9.7																
															2.00	38	9.6	9.6	9.5																											
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery											
			2249	11	3											4		2249	44	11																										
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.														From To Hrs.														From To Hrs.																
		DRILL L'N HOLE 12.00 12.45 3 1/2														CUT CORE #4 8.00 4.00 8														CUT CORE No 4 4.00 7.30 3 1/2																
		CIRC SAMPLE AND 12.45 1.30																												HOIST FOR CORE 7.30 9.00 1 1/2																
		RIG SET 1.30 3.45 1 1/2																												RECOVER CORE + BOX SAME. 9.00																
		HOIST TO CORE 3.00 3.45 1 1/2																												KAY DOWN CORE BBL. 10.00																
		PICK UP CORE BBL. 3.45 4.00 1 1/2																												RUN IN W/ BIT NO 6 RR. 10.00 11.15																
		MAKE UP BIT 3.00 3.45 1 1/2																												BACK CIRC + REAM TO BOT TOM 11.15 11.45																
		RUN IN HOLE SLOW 3.00 3.45 1 1/2																												DRILL L'N HOLE 11.45 12.00 1 1/2																
		CIRC HOLE 4.30 5.00 1 1/2																																												
		CORING 5.00 8.00 3 1/2																																												
		Driller <u>Paul Henderson</u>														Driller <u>Paul Henderson</u>														Driller <u>J. Neenan</u>																

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 CIRG.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT T/DAY: YES NO

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

YES _____ NO _____
y John R. McQuinn

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 12WELL NAME 10E STRONG POINT Q 24 Lsd. Sec. Twn. Rge. W. Contractor BIG INDIAN Month FEB Day 9 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation																			
		2069	2069	0	6 1/2												2069	2107	38	6 3/4												2107	2128	21	6 3/4																				
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																		
		3 1/2	1525		41	440	6432										3 1/2	1587		41	440	6432										3 1/2	1587		41	440	6432																		
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																			
COLLAR		15	4 3/4	2"	440	DRILLING STRING									COLLAR		15	4 3/4	2"	440	DRILLING STRING									COLLAR		15	4 3/4	2"	440	DRILLING STRING																			
DATA		28000													18000													DATA		28000													18000												
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage						BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage						BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage																
																	1	D	8	38	12	78											1	D	12 1/2	59	12	78	2128																
SURVEYS		Bit Serial No. 310602 Jet ☐ Conventional ☐														SURVEYS		Bit Serial No. 310602 Jet ☐ Conventional ☐														SURVEYS		Bit Serial No. 310602 Jet ☐ Conventional ☐																					
		Nozzle Size Bit Wear: T B G																Nozzle Size Bit Wear: T B G																Nozzle Size Bit Wear: T B G																					
PUSH PUMP RECORD		HOURS														PUSH PUMP RECORD		HOURS														PUSH PUMP RECORD		HOURS																					
		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size										On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size										On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																		
				550	16	50	5										8		550	16	50	5										4 3/4		550	16	50	5																		
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																
		12:00	34	9.1			1500 # BEL											8:00	38	9.1			9.5 PRESERVATIVE 25											4:00	39	9.2																			
		1:00	47	9.1			100 # CAUSTIC SODA											10:00	39	9.1														6:00	38	9.3																			
																		12:00	40	9.1														8:00	38	9.3																			
		8:00	51	9.1														2:00	41	9.1	9	9.5																																	
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery																
																		3	2069	38	8													3	2069	59	12 1/2	2129																	
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.														DETAIL OF OPERATIONS AND REMARKS		From To Hrs.														DETAIL OF OPERATIONS AND REMARKS		From To Hrs.																					
		CIRC & CONDITION MUD 12:00 130 1 1/2																CORREING 8:00 400 6																CUT CORE #3 4:00 8:45 4 3/4																					
		HOIST TO RECOVER CORE 130 3:00 1 1/2																																HOIST 8:45 10:30 1 3/4																					
		RECOVER CORE 3:00 4:15 1 1/4																																RECOVER CORE & BBL SAME 10:30 11:30 1																					
		RIG SERVICE & CHANGE OL 4:15 5:00 1/2																																MARK ON WATER PUMP & BLOW 11:30																					
		ADD FILTERS RIG MOTOR 5:00 5:45 1/2																																WATER LINES 12:00 1/2																					
		RUN W/ CORE BALS 4:45 6:45 1 3/4																																																					
		BREAK CIRC & CLEAR TO BTM 6:00 7:00 3/4																																																					
		WORK ON PUMP 7:00 8:00 1																																																					
Driller		L. Noonan														Driller		Hoyt Swing-stone														Driller		Paul Handman																					

HEADING UP & DRG. 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.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY? YES NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by John A. McF...

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 11

WELL NAME JOE STRONG POINT

Lsd. Sec. Twn. Rge. W.

Contractor KENTING DRIS Month FEB 8 Day 8 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation																											
		2006	2043	7	6 1/4	ANHYDRITE											2013	2044	31	6 1/4												2044	2069	25	6 3/4																												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																										
		3 1/2	1525		41	440	64 32										3 1/2	1525		41	440	64.32										3 1/2	1525		41	440	64.32																										
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																									
COLLAR		15	4 3/4	2	440	DRILLING STRING DRILL COLLARS										COLLAR		15	4 3/4	2	440	DRILLING STRING DRILL COLLARS										COLLAR		15	4 3/4	2	440	DRILLING STRING DRILL COLLARS																									
DATA		25 000 18 000										DATA		25 000 18 000										DATA		25 000 18 000																																					
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage																						
		3RR	OWU.	1	5	16m	85	2011	48. 16'									DB	D	9	37	12	78										18	D	14 1/2	58	12	78	2069																								
		18	0	1																																																											
		Bit Serial No. 3RR										Jet ☒ Conventional ☐							Bit Serial No. 310602										Jet ☐ Conventional ☐							Bit Serial No. 310602										Jet ☐ Conventional ☐																	
		Nozzle Size 2 1/2 1/10										Bit Wear: T. 2 B. 2 G. 1							Nozzle Size										Bit Wear: T. B. G.							Nozzle Size										Bit Wear: T. B. G.																	
SURVEYS		Depth										Deviation					SURVEYS		Depth										Deviation					SURVEYS		Depth										Deviation																	
PUSH PUMP RECORD No. 1 No. 2		HOURS										Pump Press					Length of Pump Stroke					Strokes Per Min.					Liner Size					PUSH PUMP RECORD No. 1 No. 2		HOURS										Pump Press					Length of Pump Stroke					Strokes Per Min.					Liner Size				
		On Line Circulating										1250					16					52					5							On Line Circulating										500					46					50					5				
		CORE. 300										16					44					5							On Line Circulating										550					16					50					5									
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																								
		300	48	8.5			1500 GEL											900	32	8.9														400	32	9.			gel- 1000																								
		TRIP.					500 # STARCH											1000	34	8.9														600	32	9.																											
		600	47	8.5			50 # BROXIN											1600	34	8.9														800	31	9.																											
		700	46	8.5			50 # CAUSTIC SODA											200	34	8.9	5																																										
							50 # PRESERVATIVE																																																								
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery																								
		2	2011	2	1													2	2013	33	9													2	2011	58	14 3/4	2069																									
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.										DETAIL OF OPERATIONS AND REMARKS					From To Hrs.										DETAIL OF OPERATIONS AND REMARKS					From To Hrs.																															
		RUN W/ BIT AND JUNK SUB.										12 00 100.					COREING					8.00 4.00 8															CUT CORE #2										4.00 9.45 5 3/4																
		CIRC & CONDITION MUD										100 200																									HOIST. (TIGHT)										9.45 10.30 3/4																
		BEAM AT HOLE W/ CORE 1990-2006										200 230																									CIRC & CONDITION MUD										10.30 12.00 1 1/2																
		DRAG 6 1/4 HOLE 2006-2011										230 300																																																			
		WORK JUNK SUB.										300 315																																																			
		HOIST TO CORE										315 500																																																			
		PICK UP CORE BARREL										500 515																																																			
		RUN IN W/ CORE BARREL										515 630																																																			
		BREAK CIRC CLEAN TO BOTTOM										630 700																																																			
		CUT CORE NO 2										700 800																																																			
		Driller: <u>A. Mooney</u>															Driller: <u>Robert Livingston</u>															Driller: <u>Paul Henderson</u>																															

HEADING UP & DRG. 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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John A. McRae

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 10

WELL NAME JOE STRONG POINT 624 Lsd. Sec. Twn. Rge. W. Contractor BIG INDIAN #35 Month FEB 6 Day 6 1969.

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	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation					
		1967	1990	23	6 1/4							1990			6 3/4							1993	2006	13	6 3/4						
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.						
		3 1/2	1525		41	440				3 1/2				41	440	64.32			3 1/2				41	440	64.32						
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
		COLLAR	15	4 3/4	2"	440	DRILLING STRING: DRILL COLLARS			COLLAR		15	4 3/4	2"	440	DRILLING STRING: DRILL COLLARS			COLLAR		15	4 3/4	2"	440	DRILLING STRING: DRILL COLLARS						
		DATA				25.000	18.000			DATA						18.000			DATA						25.000 18.000						
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	
		4	SS-5	20 1/4	10	18"	44	1977	157		1		0									1		0	5 1/2	16	9	80	2006	16	
		5	OWU	1	13	12"	85	1990	43													OWU									
		Bit Serial No. <u>N 0780</u> Jet ☒ Conventional ☐										Bit Serial No. <u>310602</u> Jet ☐ Conventional ☐										Bit Serial No. <u>310602</u> Jet ☐ Conventional ☐									
		Nozzle Size <u>2 1/4 1/16</u> Bit Wear: T <u>6</u> B <u>8</u> G <u>1</u>										Nozzle Size <u>2 1/4 1/16</u> Bit Wear: T <u>6</u> B <u>8</u> G <u>1</u>										Nozzle Size <u>2 1/4 1/16</u> Bit Wear: T <u>6</u> B <u>8</u> G <u>1</u>									
SURVEYS		Depth <u>OWU - RERUN</u> Deviation										Depth <u>OWU - RERUN</u> Deviation										Depth <u>OWU - RERUN</u> Deviation									
PUSH 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									
		1000 16 45 5"										500 16 50 5"										500 16 50 5"									
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						
		12:00	34	9.2			600# GEL.				2:00	35	9.3			PRESERVATIVE 25#				4:00	36	9.3									
		1:00	38	9.3	9.8	8.3														6:00	35	9.3									
																				8:00	35	9.3									
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery						
											1	1990								1	1990	16	5 1/2	2006	6						
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.										From To Hrs.										From To Hrs.									
		DRILL 6 1/4 HOLE 12:00 130 1 1/2										Rig SER 8:00 8:15 1/4										CUT CORE #1 4:00 8:00 4									
		CIRC & CONDITION MUD 1:30 2:00 1/2										WORK ON BREAK CLUMP 8:15 8:45 1/2										HOIST 8:00 10:00 2									
		HOIST TO CORE 2:00 3:45 1 3/4										HOIST TO CORE 8:45 10:30 1 3/4										RECOVER CORE 10:00 11:00 1/2									
		Rig SERVICE 3:45 4:00 1/4										MAKE UP CORE BBL 10:30										SERV. CORE BBL + STAND IN PERK 10:30 11:00 1/2									
		MAKE UP BIT AND JUNK 4:00										ADD RUN IN HOLE										MAKE UP BIT & JUNK SUB 11:00									
		SUB RUN IN W/ SAME										SHOW W/ CORE BBL 11:45 12:00 1/4										RUN IN 12:00 1									
		BREAK CIRC CLEAN TO BOTTOM 5:45 6:15 1 3/4										BREAK CIRC 11:45 12:00 1/4																			
		WORK ON AIR LINES 5:45 6:15 1/2										CIRC CORE BBL 12:00 12:30 1/2																			
		DRILL 6 1/4 HOLE 6:15 7:15 1										CORING 7:30																			
		WORK JUNK SUB 7:15 8:00 3/4										Driller: <u>Harry Lington</u>										Driller: <u>Paul Henderson</u>									

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McFadden

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 9

WELL NAME JOE STRONG'S POINT G 24 Lsd. Sec. Tw. Rge. W. Contractor KENTING DRILLING Month FEB Day 5 1969

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	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation				DEPTH		From	To	Hole Made	Bit Size	Formation											
		1820	1853	33	6 1/4	LIME ANHYDRITE						1853	1914	61	6 1/4	LIME ANHYDRITE						1914	1967	53	6 1/4												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.										
		3 1/2	1341	3087	41	440						3 1/2	1433		41	440						3 1/2	1464	3090		440											
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL											
COLLAR		15	4 3/4	2"	440	DRILLING STRING				DRILLING STRING				DRILLING STRING				DRILLING STRING				DRILLING STRING				DRILLING STRING				DRILLING STRING							
DATA						24000				18000				DATA								25000				18000				DATA							
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed					
		3	OWU	2 3/4	10	10-14	60-100	1820	10				4	SS-5	11 1/2	94	18m	42							4	SS-5	18 1/4	147	18m	42							
SURVEYS		Bit Serial No. <u>N 0780</u> <u>5086</u> Jet ☒ Conventional ☐										Bit Serial No. <u>N 0780</u> Jet ☒ Conventional ☐										Bit Serial No. <u>N 0780</u> Jet ☒ Conventional ☐															
PUSH PUMP RECORD		Nozzle Size <u>3/4</u> <u>1/2</u> <u>1/4</u> Bit We. <u>T</u> <u>B</u> <u>G</u>										Nozzle Size <u>3/4</u> <u>1/2</u> <u>1/4</u> Bit We. <u>T</u> <u>B</u> <u>G</u>										Nozzle Size <u>3/4</u> <u>1/2</u> <u>1/4</u> Bit We. <u>T</u> <u>B</u> <u>G</u>															
		Depth <u>1820</u> Deviation <u>1 1/4</u>										Depth <u>1853</u> Deviation <u>1 1/4</u>										Depth <u>1914</u> Deviation <u>1 1/4</u>															
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								
		4				1000	16	44	5			7 3/4				1000	16	44	5			8 1/2				1000	16	44	5								
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								
		1200					N/A						800	34	9.1			PRESERVATIVE 25m						400	35	9.1											
		200											1000	35	9.1									600	35	9.1											
		400	40	9.2									200	32	9.1									800	34	9.2											
		600	38	9.2																				1000	34	9.2											
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery				CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery								
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.										From To Hrs.										From To Hrs.															
		HOLE FOR BOT NO 3 1200										RIG SER BACK 800 830 1/2										DRIG 400 545 1 3/4															
		WET TAP TOTAL STUCK										DRILL 6 1/4 HOLE 830 1030 2										RIG SER & WORK ON PUMP 545 615 1/2															
		ABOVE BIT 200 2										CLOSE PIPE RAZZS CHECK 1030										DRIG 615 1200 5 3/4															
		RIG SER & SET UP RETARDER 200 2 3/4 1/2										SHUT OFF ON RIG MOTOR 1045 1/2																									
		RUN IN W/ BIT NO 4 (SHOW) 400 1 1/2										DRILL 6 1/4 HOLE 1045 1200 5 3/4																									
		DRIG PASS IRON IN HOLE 400 500 1																																			
		DRIG 6 1/4 HOLE 500 800 3																																			
Driller		<u>A. Noonan</u>										Driller <u>Joseph Livingston</u>										Driller <u>Paul H. H.</u>															

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAYYES ☒ NO ☐

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John A. McHurt

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by John A. McQuinn

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 7

WELL NAME JOE STRONG POINT Lsd. Sec. Twn. Rge. W. Contractor Month Feb Day 3 1969

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	Bit Size	Formation		From		To	Hole Made	Bit Size	Formation		From		To	Hole Made	Bit Size	Formation															
1390		98	1488	6 1/4	SHALE & LIME	1488		1594	107	6 1/4	LIME	1594		1682	87	6 1/4	LIME																		
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.														
		3 1/2	1048		41	440		3 1/2				4100	440		3 1/2		1219		41	440															
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL													
COLLAR		15	4 3/4	2"	440	DRILLING STRING		COLLAR		15	4 3/4	2"	440	DRILLING STRING		COLLAR		15	4 3/4	2"	440	DRILLING STRING													
DATA		22000					78000		DATA									DATA																	
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed					
		1	DSC-3	21 3/4	944	8000	160	1427	944		2		SS-5	10	148	142						2		SS-5	17 3/4	255	1520	42							
		2	SS-5	3	61	1600	40	61																											
		Bit Serial No. ONE. 4243/4244/4245 Jet ☒ Conventional ☐										Bit Serial No. 2 - N07668 Jet ☒ Conventional ☐										Bit Serial No. 3 - N0766 Jet ☒ Conventional ☐													
		Nozzle Size 2 1/10 1/9 1/2 1/4 1/10 Bit Wear: T 6 B 5 G 1										Nozzle Size 2 1/9 1/10 Bit Wear: T B G										Nozzle Size 2 1/4 1/10 Bit Wear: T B G													
SURVEYS		Depth Deviation										Depth Deviation										Depth Deviation													
PUSH PUMP RECORD No. 1 No. 2		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																
		On Line	Circulating					On Line		Circulating					On Line		Circulating																		
		6		700	16	45	5				1000	16	44	51				1000	16	44	5														
				1000	16	44	5																												
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														
		1200	28	8.6			500# PLASTER		800	38	8.8					600	33	8.9																	
							1000# GEL		1000	38	8.8					2000	35	9.0																	
		600	40	8.8			20 BBLs WATER		1200	35	8.8					1000	32	9.1																	
		800	38	8.8					400	35	8.9																								
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery														
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.										From To Hrs.										From To Hrs.													
		DRLG 6 1/4 HOLE										DRLG 6 1/4 HOLE										DRLG 6 1/4 HOLE													
		1200 130 1 1/2										800 830 1 1/2										400 500 1													
		PIPE TO TRIP & SAMPLE										RIG SER & V BOPs										RIG SER													
		130 145 1/4										830 900 1 1/4										500 515 1 1/4													
		HOIST FOR BIT NO ONE										DRLG 6 1/4 HOLE										DRLG 6 1/4 HOLE													
		145 245 1										900 1400 7										515 1200 6 3/4													
		CLOSE ALING RAMS & RIG SER																																	
		245 300 1/4																																	
		MAKE UP BIT RUN W/ SAME																																	
		300																																	
		SLOW / BREAK PIPE																																	
		345 3 1/4																																	
		CLEAN 30' TO BOTTOM																																	
		345 400 1/4																																	
		DRLG 6 1/4 HOLE																																	
		400 545 1 3/4																																	
		CIRC & CONDITION MUD																																	
		545 645 1																																	
		DRLG 6 1/4 HOLE																																	
		645 800 1 1/4																																	
		Driller: <u>2 Noonan</u>										Driller: <u>John A. McFarlane</u>										Driller: <u>John A. McFarlane</u>													

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAYYES ☒ NO ☐

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John A. McFarlane

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 6WELL NAME IDE STRONG POINT G 24 Lsd. Sec. Tw. Rge. W. Contractor BIG INDIAN #35 Month FEB Day 2 1969

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		Bit Size		Formation		From		To		Hole Made		Bit Size		Formation		From		To		Hole Made		Bit Size		Formation							
477		750		273		6 1/4		SHALE SANDSTONE		CARBONATE		750		1031		281		6 1/4		SHALE		1031		1399		354		6 1/4		SHALE							
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.	
3 1/2		5/277		✓		41		481						3 1/2				4100		4440"						3 1/2		10				41		4440"			
DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL		DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL		DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL			
COLLAR		15		4 3/4		2"		481		DRILLING STRING		COLLAR		15		4 3/4		2"		440		DRILLING STRING		COLLAR		15		4 3/4		2"		440		DRILLING STRING			
DATA								20000		18		DATA										DATA															
BIT RECORD		No.		Type		Time On Bit		Footage		WOB		RPM		Depth Pulled		Total Footage Drilled		Reamed		No.		Type		Time On Bit		Footage		WOB		RPM		Depth Pulled		Total Footage Drilled		Reamed	
1		OSC-3		5 1/2		2 1/2		6000		160				273						1		OSC-3		13 1/4		554		1600		160							
Bit Serial No.		4248		Jet		☒ Conventional						Bit Serial No.		2448		Jet		☒ Conventional				Bit Serial No.		2448		Jet		☒ Conventional									
Nozzle Size		2/10 1/4		Bit Wear:		T		B		G		Nozzle Size				Bit Wear:		T		B		G		Nozzle Size				Bit Wear:		T		B		G			
SURVEYS		Depth		543-2 1/2		636-4 1/2		2000 3"				Depth		880		Deviation		20				Depth				Deviation											
PUSH PUMP RECORD		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size							
No. 1		On Line		Circulating				1000		46		52		5				700		16		46		5				700		16		46		5			
No. 2		5 1/2		X																																	
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	
12 00		28.8		8.4								200 # B1 CARB.		9 01		28		8.5								14 00		28		8.5							
												WATER		10 00		28		8.6								16 00		28		8.6							
														12 00		28		8.6								10 00		28		8.7							
														20 00		28		8.18																			
CORING		Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery		Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery		Core No.		Depth In		Footage		Hours Run		Depth Out		Recovery	
PRESSURE D FORMATION TO 509 PS																																					
CHECKED KELLY COCK																																					
DETAIL OF OPERATIONS AND REMARKS		PRESSURE UP ON FORMATION		12 30		12 30		1/2						DRILL 6 1/4 HOLE 4000" BIT 2 1/2		8 00		9 30		1 1/2						Rig SEP. MOP. SV		4 10		4 30		1 1/2					
		DISPLACE HOLE TO WATER		12 30		1 00		1/2						SURVEY @ 798-2 1/2 HARD SPOT		9 30		10 00		1/2						DRILL 6 1/4 HOLE		4 30		6 00		1 1/2					
		DRILL 6 1/4 HOLE		1 30		1 30		1/2						DRILL 6 1/4 HOLE 6000" ON BIT		10 00		10 30		1/2						SURVEY 1122-2"		6 00		6 15		1/4					
		ADD KELLY SAFETY VALVE		1 30		1 30		1/2						WORK ON PUMP		10 30		10 45		1/4						DRILL 6 1/4 HOLE		6 15		9 30		3 1/4					
		SURVEY @ 543-2 1/2				2 00		1/2						DRILL 6 1/4 HOLE 6000" ON BIT		10 45		12 30		1 3/4						SURVEY 1304 1 1/4"		9 30		9 45		1/4					
		DRILL 6 1/4 HOLE		2 00		4 00		2						SURVEY @ 550-20		12 30		12 45		1/4						DRILL 6 1/4 HOLE		9 45		12 00		2 1/4					
		SURVEY @ 636-4 1/2				4 00		4 15		1/4				DRILL 6 1/4 HOLE 6000" ON BIT		12 45		3 00		2 1/4																	
		DRILL 6 1/4 HOLE 4000 BIT WT.		4 15		6 00		1 3/4						SURVEY 1000 1 3/4"		3 00		3 15		1/4																	
		WORK ON LIGHT PLANT		6 00		6 30		1/2						DRILL 6 1/4 HOLE 6000" ON BIT		3 15																					
		DRILL 6 1/4 HOLE 7000"		6 30		7 15		1/4																													
		SURVEY @ 777-2 3/4"		7 15		7 30		1/4																													
		DRILL 6 1/4 HOLE		7 30		8 00		1/2																													

HEADING UP & DRILL. 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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES _____ NO _____

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John G. McHester

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 5

WELL NAME JOE. STRONG POINT Lsd. Sec. Twn. Rge. W. Contractor Big Indian #35 Month FEB Day 1 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation								
477															477															477														
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		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								
COLLAR		DRILLING STRING													COLLAR		DRILLING STRING													COLLAR		DRILLING STRING												
DATA															DATA															DATA														
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage						No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage						No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage									
		Bit Serial No. Jet ☐ Conventional ☐														Bit Serial No. Jet ☐ Conventional ☐														Bit Serial No. 4248 Jet ☐ Conventional ☐														
		Nozzle Size Bit Wear: T B G														Nozzle Size Bit Wear: T B G														Nozzle Size Bit Wear: T B G														
SURVEYS		Depth Deviation														Depth Deviation														Depth Deviation														
PUSH PUMP RECORD No. 1 No. 2		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											
		On Line	Circulating												On Line		Circulating												On Line		Circulating													
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		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.														From To Hrs.														From To Hrs.														
		MAKE CELLAR LARGER 12 ⁰⁰ 2 ⁰⁰														HEADING UP - LAY FLARE 8 ⁰⁰														Rig SEER 4400 470 1/2														
		SLACK UP OFF 4 HEAD 2 ⁰⁰														LINE - RISER TO RIG														HAND DOWN 2 1/2" COLLAR 470 500 1/2														
		ING. UP.														STRAIGHTEN CHOKE CONTROL														RUN IN HOLE 500 545 3/4														
		ADD TWO 2000# WK														AAM. MAKE UP FILL UP														CIRC 545 600 1/4														
		VALVES TO REGULAR SET UP.														LINE														PRESS UP PIPE 600 700 1														
		CUT 3" BULL PLUG OUT														PRESS UP OF BLIND														PRESS UP H. DRILL 700 930 2 1/2														
		OF SHAFFER 8 ⁰⁰														RAMS 400 6														DRILL OUT CEMENT 930														
																														FLOT AND SHOE 1200 2 1/2														
		Driller <u>J. Noonan</u>														Driller <u>J. Noonan</u>														Driller <u>Wayne Lupton</u>														

HEADING UP & DRG. 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:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

Approved by

John A. M. 1/69

IMPERIAL OIL LIMITED

FORM NO. 558

DATE AN 31/69

EDMONTON PRODUCING DIVISION

PAGE NO. 1

CASING-CEMENTING REPORT

REFERENCE TALLY
NO. 1NAME OF WELL 10E STRONG POINT G 24CONTRACT RIG BIG INDIAN # 35 PREPARED BY JOHN MCNOTT

CASING	SIZE O.D. (IN.)	WEIGHT LB./FT.	GRADE	MANUFACTURER	COLLARS SHORT/LONG	NO. OF JOINTS	AMOUNT FT.	DEPTH FT. K.B. (O)
	7	20	J55	MANN	STEC	14	425.27	
STAGING COLLAR								
BACK-OFF COLLAR OR PACKER								
FLOAT COLLAR				BAKER			1.45	
CASING	7	20	J	MANN		1	32.30	
SHOE				BAKER			1.00	

HOLE SIZE 9 7/8 FROM 0 TO 477 FT.HOLE SIZE IN. FROM TO FT.HOLE SIZE IN. FROM TO FT.K.B. TO TOP OF SURFACE CASING FLANGE 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 TYPE OF FLOAT EQUIPMENT BAKER

TOTAL

CALC. AMT. UP ON LAST JT.

ACTUAL AMT. UP ON LAST JT.

MAKE UP ALLOWANCE

CASING SET

TOTAL DEPTH OF HOLE

ITEM	TYPE	MANUFACTURER	NO.	SPACING FT.	INTERVAL COVERED	FT. K.B. (O)
SCRATCHERS						
CENTRALIZERS	HINGED	BAKER	2	90'	467 - 377	

TYPE OF MUD WATER GELINITIAL MUD: WT. 10 LB./GAL. VISCOSITY 80 SEC.FINAL MUD: WT. LB./GAL. VISCOSITY SEC.CEMENTED BY B.J.CEMENT USED 200 SKS. GEL: % SKS.ADDITIVES CACL2 AMT. 5 SKS. AMT. SKS.TIME CASING STARTED IN HOLE 9:00 A.M. P.M.DROPPING RATE AT 2000' WAS SEC. FOR FT. JT.4000' WAS SEC. FOR FT. JT.6000' WAS SEC. FOR FT. JT.8000' WAS SEC. FOR FT. JT.WAS THERE LOSS OF FLUID WHILE RUNNING PIPE? NOIF SO AT WHAT DEPTH? FT.TIME CASING ON BOTTOM 1:00 A.M. P.M.CIRCULATION BROKEN AT 1:15 A.M. P.M.PRESSURE REQUIRED TO BREAK CIRCULATION 100 P.S.I.CIRCULATING PRESSURE AFTER CLEANUP 100 P.S.I.STROKE LENGTH WHILE RECIPROCATING FT. INITIALLY FT. FINALLYTIME STARTED MIX CEMENT A.M. 1:00 P.M.WAS BOTTOM PLUG USED NO?RELEASED TOP PLUG AT A.M. 1:15 P.M.PRESSURE JUST BEFORE PLUG HITS 300 P.S.I.MAXIMUM PRESSURE 1000 P.S.I.PLUG CHASED WITH WATER BUMPED AT 1:30 A.M. P.M.STROKE LENGTH WHILE CEMENTING 15 FT.

WAS THERE ANY DIFFERENCE IN PUMP PRESSURE ON

UPSTROKE AND DOWNSTROKE? NONE P.S.I.MUD RETURNS WHILE CEMENTING ☒ FULL ☐ PARTIAL☐ NONE. EXPLAIN IN REMARKS RECIPROCATATION STOPPED AT 1:15 A.M. P.M.REMARKS:

IMPERIAL OIL LIMITED
PRODUCING DEPARTMENT - WESTERN REGION

PIPE TALLY SHEET

Location IDE STRONG POINT C-24

Pipe Classification: Size 7 Wt. 20 Grade J55 Threads 8 Date JAN 29 19 69

No.	Footage		No.	Footage		No.	Footage		No.	Footage		No.	Footage	
	Feet	Tenths		Feet	Tenths		Feet	Tenths		Feet	Tenths		Feet	Tenths
		3												
1	32	30	21			41			61			81	610	54
2	32	65	22			42			62			82	152	93
3	31	56	23			43			63			83	457	59
4	27	15	24			44			64			84	2	45
5	32	36	25			45			65			85	460	02
6	32	50	26			46			66			86		
7	31	25	27			47			67			87		
8	29	95	28			48			68			88		
9	29	55	29			49			69			89		
10	31	20	30			50			70			90		
Total 1-10	310	47	Total 21-30			Total 41-50			Total 61-70			Total 81-90		
11	33	15	31			51			71			91		
12	27	58	32			52			72			92		
13	31	05	33			53			73			93		
14	26	85	34			54			74			94		
15	28	47	35			55			75			95		
* 16	27	53	36			56			76			96		
* 17	30	53	37			57			77			97		
* 18	29	90	38			58			78			98		
* 19	32	55	39			59			79			99		
* 20	32	46	40			60			80			100		
Total 11-20	300	07	Total 31-40			Total 51-60			Total 71-80			Total 91-100		

Total 1-20 610 54 Total 21-40 _____ Total 41-60 _____ Total 61-80 _____ Total 81-100 _____

Total 1-20 _____

Total 21-40 _____

Total 41-60 _____

Total 61-80 _____

Total 81-100 _____

Grand Total 1-100 _____

Tallied by 145
100

Tally Checked by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 4

WELL NAME IOE Strong Point 6153' 16 14 Sec. 120.48' 36 Twn. 14 Rge. W Contractor Big Indian #35 Month Jan Day 31 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation																							
477															477															477																													
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		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																					
COLLAR		DRILLING STRING													COLLAR		DRILLING STRING													COLLAR		DRILLING STRING																											
DATA															DATA															DATA																													
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled		Reamed		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled		Reamed		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled		Reamed																										
Bit Serial No.		Jet ☐ Conventional ☐													Bit Serial No.		Jet ☐ Conventional ☐													Bit Serial No.		Jet ☐ Conventional ☐																											
Nozzle Size		Bit Wear: T. B. G.													Nozzle Size		Bit Wear: T. B. G.													Nozzle Size		Bit Wear: T. B. G.																											
SHEETS		Depth Deviation													SHEETS		Depth Deviation													SHEETS		Depth Deviation																											
PUSH PUMP RECORD No. 1 No. 2		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																										
		On Line	Circulating														On Line	Circulating													On Line	Circulating																											
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																						
		400	73	98.			NIL																RAN 15 JTS 7" J55 R-2 20#																																				
		460.02' STEEL MANN CASING																																																									
		CEMENTED WITH 200 SKS PLUS																																																									
		2 1/2 CACL ₂ PLUG DOWN @ 1:30																																																									
		CASING LANDED @ 471.32 KE																																																									
CORING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery																						
DETAIL OF OPERATIONS AND REMARKS		FINISH RUN CSB.															From		To	Hrs.	CIRE CSB & WAIT ON															From		To	Hrs.	W O C															From		To	Hrs.	
		Rig Up To AND CIRE CSB.															12 ⁰⁰		1 ⁰⁰		WATER TRUCK															8 ⁰⁰		100	5																				
		WAIT ON WATER FOR																			CEMENT AND															100																							
		PUMP AND CEMENT TO B.																			PUMP PLUG															130		1/2																					
		CIRE CSB. WITH																			W. O. C.															130		400	2 1/2																				
		PUMPS IDLE WORK SAME.																																																									
Driller		G. Noonan															Driller		G. Noonan															Driller		G. Noonan																							

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by

John A. McVey

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No.

WELL NAME JOE STRONG POINT 61 53 16 16 Long ^{120: 48: 36} Lsd. Sec. Twn. Rge. W. Contractor Big Indian 135 Month JAN Day 30 1969

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	Bit Size	Formation		From		To	Hole Made	Bit Size	Formation		From		To	Hole Made	Bit Size	Formation																									
					9 7/8	SHALE							9 7/8	SHALE							9 7/8	SHALE																							
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.																							
	9 7/8			41	455			3 1/2				41	455							41	455																								
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																							
COLLAR		16	4 3/4	2	455	DRILLING STRING		COLLAR		16	4 3/4	2	455	DRILLING STRING		COLLAR		16	4 3/4	2	455	DRILLING STRING																							
DATA															200 00		16 000		DATA																										
BIT RECORD	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed	No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage Drilled	Reamed																
	2	OSC-3	7	149	10 000	160	477	149		2		OSC-3	7	149	10 000	160	477	149		2		OSC-3	7	149	10 000	160	477	149																	
	Bit Serial No. 1699 Jet ☐ Conventional ☒															Bit Serial No. 1699 Jet ☐ Conventional ☒															Bit Serial No. 1699 Jet ☐ Conventional ☒														
Nozzle Size 3-7/4 Bit Wear: T B G															Nozzle Size 3-7/4 Bit Wear: T B G															Nozzle Size 3-7/4 Bit Wear: T B G															
KEYS	Depth Deviation															Depth Deviation															Depth Deviation														
	HOURS															HOURS															HOURS														
	On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size															On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size															On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size														
On Line		Circulating		350		16		52		5		On Line		Circulating		16		52		5		On Line		Circulating		16		52		5															
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																							
	Nil															Nil															Gel. CAUSTIC SODA. 20 PPM WATER.														
																															600 70 10 700 70 10 GEL 900# CAUSTIC 25#														
CORING	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery		Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery		Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery																							
DETAIL OF OPERATIONS AND REMARKS	Rig SER. From To Hrs.															Rig SER. From To Hrs.															Rig SER. From To Hrs.														
	WORK ON BOILER. 12 00															WORK ON PUMP. 8 00															Rig SER. 400 430 1/2														
	DRAIN MUD LINES. 12 00															FIND MUD LINES. 10 00 2															Mix MUD. 430 630 2														
BREAK OFF KELLY HOSE. 8 00															Rig SERVICE. 10 30 10 30															CIRC HOSE. 630 730 1															
AND WORK ON PUMP. 8 00															WORK PLUGGED BIT. 10 30 11 00															Hoist TO RUN CASING. 730 815 3/4															
															TRIP FOR BIT. 11 00 1 30 2 1/2															Rig TO RUN CASING. 815															
															BIT PLUGGED WORK ON PUMP. 1 30 2 00 1/2															AND RUN CASING. 1200 3 3/4															
															CLEAN TO BOTTOM 2500 SINGLE 2 00 3 30																														
															THAW OUT HOPPER AND 3 30																														
															POSITION MUD. 400																														
Driller <u>George Bonner</u>															Driller <u>Al Noonan</u>															Driller <u>Al Noonan</u>															

HEADING UP & DRLG. OLT:
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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John McArthur

Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by John L. McHale

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 1

WELL NAME 10E STRONG POINT G-24 Lsd. 61° 53' 16" LONG 120° 49' 36" Sec. _____ Twn. _____ Rge. _____ W. _____ Contractor BIG INDIAN #35 Month JAN Day 28 1969

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	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation									DEPTH		From	To	Hole Made	Bit Size	Formation											
																	0	63	63	9 7/8	SHALE-GRAVEL											63	185	125	9 3/8	SHALE GRAVEL											
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		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									
COLLAR						DRILLING STRING										COLLAR						DRILLING STRING										COLLAR						DRILLING STRING									
DATA																DATA						5000. 2m.										DATA															
BIT RECORD		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage							No.		Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage								
SURVEYS		Bit Serial No. _____ Jet ☐ Conventional ☐														Bit Serial No. 1697		Jet ☐ Conventional ☒														Bit Serial No. 1697		Jet ☐ Conventional ☒													
PUSH PUMP RECORD		Nozzle Size _____ Bit Wear: T _____ B _____ G _____														Nozzle Size 3-3/4"		Bit Wear: T _____ B _____ G _____														Nozzle Size 3-3/4"		Bit Wear: T _____ B _____ G _____													
		Depth _____ Deviation _____														Depth _____ Deviation _____		Depth 150 Deviation 3/4"														Depth _____ Deviation _____		Depth _____ Deviation _____													
		HOURS														HOURS		HOURS														HOURS		HOURS													
		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size												
		8:00		300	16	52	5								4:00			30	16	52	5											300	16	52	5												
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										
		8:00	32	8.4												8:00		32	8.4			15 SKS GEL									8:00		35	8.7													
		10:00	32	8.4												10:00		32	8.4			50# CAUSTIC SODA									10:00		35	8.7													
		12:00	42	87												12:00		42	87																												
		4:00	45	88	16.4	8.5										4:00		45	88	16.4	8.5																										
CUTTING		Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery									Core No.		Depth In	Footage	Hours Run	Depth Out	Recovery										
																						SPUD @ 11:15 JAN 28/69																									
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.														From To Hrs.		From To Hrs.														From To Hrs.		From To Hrs.													
		DRILLING RAT HOLE 12:00 8:00														8:00 8:30 1/2		Rig SERVICE 4:00 4:30 1/2														4:30 10:00 5 1/2		DRAG 9 3/8 HOLE 4:30 10:00 5 1/2													
		BOULDERS														PUMP DOWN RAT HOLE 8:30 9:00 1/2		DRAG 9 3/8 HOLE 4:30 10:00 5 1/2														SURVEY 150 3/4 10:00 10:15 1/4		DRAG 9 3/8 HOLE 10:15 12:00 1 3/4													
																CONDITION MUD AND DIE 9:00																															
																BOULDER OUT OF CELLAR 11:00 2																															
																Rig To SPUD 11:00 11:30 1/2																															
																SPUD 9 3/8 HOLE 11:30 1:30 2 1/4																															
																WORK ON PUMP-CLEAN 1:30																															
																GREEN AND STICKS UNDER VALVES 2:15 3/4																															
																DRAG 9 3/8 HOLE 2:15 4:00 1 3/4																															
		Driller <u>L. Bonner</u>														Driller <u>Grant A. Noonan</u>														Driller <u>Frank Timmerman</u>																	

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:

CLASSES OF TIME BREAKDOWN

TOTCO:
FISHING:
CIRCULATING:

CASING:
W.O.C.
D.S. TESTING:

LOGGING:
W.O. ORDERS:
RIG REPAIRS:

RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:

REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES _____ NO _____

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by _____

LAT

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No.

WELL NAME LOE STRONG POINT 3 24 61° 53' 16" N 120° 49' 39" W LONGLsd. Sec. Twn. Rge. W. Contractor BIG INDIAN Month JAN Day 27 1969

	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	Bit Size	Formation						From	To	Hole Made	Bit Size	Formation						From	To	Hole Made	Bit 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	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																					
	COLLAR					DRILLING STRING				COLLAR					DRILLING STRING				COLLAR					DRILLING STRING				COLLAR					DRILLING STRING												
	DATA										DATA										DATA																								
BIT RECORD	No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage		No.	Type	Time On Bit	Footage	WOB	RPM	Depth Pulled	Total Footage																			
PUSH PUMP RECORD No. 1 No. 2	Bit Serial No. Jet ☐ Conventional ☐										Bit Serial No. Jet ☐ Conventional ☐										Bit Serial No. Jet ☐ Conventional ☐																								
	Nozzle Size Bit Wear: T _____ B _____ G _____										Nozzle Size Bit Wear: T _____ B _____ G _____										Nozzle Size Bit Wear: T _____ B _____ G _____																								
	Depth Deviation										Depth Deviation										Depth Deviation																								
	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	Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery					Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery					Core No.	Depth In	Footage	Hours Run	Depth Out	Recovery																			
DETAIL OF OPERATIONS AND REMARKS	LAY STEAM LINES WORK ON BOILER RIG UP										RIGGING UP RIG SERVICE & SET BACK BEAM - RAISE DERRICK - SET ROTARY TABLE IN - PUT UP PREFABS - THAW OUT MAKE UP MUD LINES - START MOTORS										PUT UP PREFABS PICK UP KELLY - PRIME PUMP - WORK ON FUEL PUMP - RIG UP																								
Driller.....										Driller.....										Driller.....																									

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.:DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES _____ NO _____

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

John A. McHester