

IMPERIAL LAC TACHE

C-35

Drilling Authority No.

Date Issued

WELL NAME Imperial Lac Tache C-35

FIELD Wildcat

Area: Willow Lake

LOCATION: Unit

Section

Grid

Latitude 63°44'15" N.

Longitude 120°36'45" W.

From Established Reference Marker

Rig Release Date: 6-4-60

Status D & A

Information Release Date 6-4-62

CHANGE OF NAME:

DATE RECEIVED	INDEX
MAR 22 1962	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Approval to Commingle Production before Measurement. Application to Amend Approval No. to Commingle Production before Measurement. Application for M.P.R.—Oil. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Field Abandonment Programme and Approval. Well Card. Well Visit. Daily Drilling Reports.



Date Issued.....

WELL COMPLETION DATA

Well name and number

IMP LIC TACHE C-35

Permit No.

P & NG 2782

Lease No.

Imperial Oil Limited

Exploratory Licence No.

Not available

(Permitter, Licensor, Lessor)

Imperial Oil Limited

Exploratory Licence No.

Not available

(Operator)

Location: Unit

C

Section

35

Grid 63°50' - 120°30'

Latitude

63°44'15" N

Longitude

120°36'45" W

From Established Reference Marker

S. 36574' W. 18886' from NE Bdy Permit 2782

Pool (S)

Interval(s) open to production

Elevation: Gr. 1008

K.B. 1014

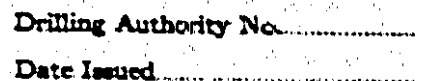
Drilling Contractor & Rig No. I.O.L.

Contractor's Licence No.

LOG RECORD

Run No.	Type of Log	From	To
1	Electric	1496	188
1	Gamma Ray Neutron	1718	150
1	Sonic Log	1714	188

NANR 52-90(2) (1-61)



WELL COMPLETION DATA

Well name and number IMP L'C TACHE C-35

Permit No. P & NG 2782 Lease No.

Imperial Oil Limited Exploratory Licence No. Not available
(Permitter, Licensee, Lessee)

Imperial Oil Limited Exploratory Licence No. Not available
(Operator)

Location: Unit C Section 35 Grid 63°50' - 120°30'

Latitude 63°44'15" N Longitude 120°36'45" W

From Established Reference Marker S. 36574' W. 18886' from NE Bdy Permit 2782

	DATE	DEPTH
Spudded	Feb. 23/60	
Suspended		
Returned		
Finished Drilling		
Deepened		
Complete (gas/oil)		
Abandoned	Apr. 6/60	1719
Rig released	Apr. 6/60	1719

Pool (S)

Interval(s) open to production

Elevation: Gr. 1008

K.B. 1014

Drilling Contractor & Rig No. I.O.L.

Contractor's Licence No.

Cooling Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 7			187	62	
2.					
3.					
4.					
5.					
6.					

NANR 52-90(2) (1-61)

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
Apr 11 6/60	1719	1619	25 sax and 2½ CaCl ₂								
	870	770	25 sax and 2½ CaCl ₂								
	375	137	125sax and 2½ CaCl ₂								
	Surface		5 sax top of surface casing.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.P.B.H.P.	I.H.P.	F.H.P.	REMARKS
1			470	515	5.445	30	45	175	175	70	175	245	210	Weak airblow. Rec. 440' of fresh water BHT 70' approx.
2			865	936	5.445	30	45	350	350	140	350	560	560	Fair airblow. Dead in 30 mins. Rec. 300' of mud and 300' of muddy water (4100 ppm NaCl) and 120' of watery mud.

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL			
						Oil			(Interval)
						Gas			(Interval)
						Dry	Abandoned		
						Susp.			

Company Imperial Oil Limited

Signed by COPY (ORIGINAL) R. F. FINCH

Total Well File Clerk

Date November 21st, 1961

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

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

For the period from Feb. 23, 1960

to April 6, 1960.

REPORT of ~~IMPERIAL~~
~~WELL~~
~~IMPERIAL~~
~~WELL~~
ABANDONMENT of a Well

Permit No. H.W.T. 2782

Name of well . Imperial Inc. Tache S-75 Lease No.
Registered owner Imperial Oil Limited . . . Drilling Company Beacon Engineering
Location . 63° 44' N. Lat 123° 37' . . W. Long.
Survey description, if available
Elevation: Ground . 1008.0 . . Last previous depth . 1719'
Kelly bushing . 1011.8 . . Present depth
Spudded . Feb. 23, 1960 Finished drilling April 4/60 Released
. April 6, 1960.
Deviations from vertical . . 0.2°
.

CASING RECORD

Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1 Feb. 23/60	7"	20	J-55	187 L.P.	62	Surface
2						
3						
4						

TUBING RECORD

Size	Wt. Lbs/foot	Grade	Amount	Landed Depth	Remarks

Wellhead (Manufacturer) (Size) (Series)

Cord intervals	(1)	350-370	Dec.	15-6'
	(2)	853-872	Dec.	19'
	(3)	873-881	Dec.	7'

Interval logged: E-log 1496-188 Other logs GEN - 1718 - 150 . . .
~~XXXX~~ XXXX Some 1714 - 188 . . .
~~XXXX~~ XXXX
~~XXXX~~ XXXX

The above logs ~~(are)~~ (will be) submitted in accordance with Section 65 of the Regulations.

DRILL STEM TESTS

[illegible]

(If space insufficient, attach further sheet)

(Strike out the non-applicable) ~~(Completion)~~ ~~(Interest)~~ ~~(Compensation)~~

Perforations bullet.

PROPERTY
Description

Hydrostatic Pressure

Chemical Treatment

CONFIDENTIAL

Internal production data

Pumping or flowing
Plug back
Other
.
.
.
.

CEMENT PLUGS SET

<u>Date</u>	<u>Plug set at</u>	<u>Sacks cement</u>	<u>Method</u>	<u>Top found at</u>
April 5 . .	1719'-1619'	. . . 25 . . .	Displacement . .	Not Salt . .
April 5 . .	870'-770'	. . . 25 . . .	Displacement . .	720'
April 5 . .	375'-137'	. . . 125 . . .	Displacement . .	. 40'
.	5 sack cement plug in top of casing welded on steel			
.	plate and name plate			

Washed well samples ~~submitted~~ sent to Geological Survey of Canada, Calgary
will be

Cores will be stored at . . . Dawson Creek, B.C.

Core analysis ~~XXXXXXXXXXXXXXXXXXXX~~ Not Done
~~XXXXXXXXXXXX~~

~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXXXXXXXXXX~~ . . N-4
~~XXXXXXXXXXXX~~

~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXXXXXXXXXX~~ . . N-4
~~XXXXXXXXXXXX~~

Water analysis ~~XXXXXXXXXXXXXXXXXXXX~~ Or Intervals (1) 470 - 515
(to be made) (2) 865 - 936

The above analyses ~~(xxx)~~
(will be) submitted in accordance with Section 70(2) of
the Regulations.

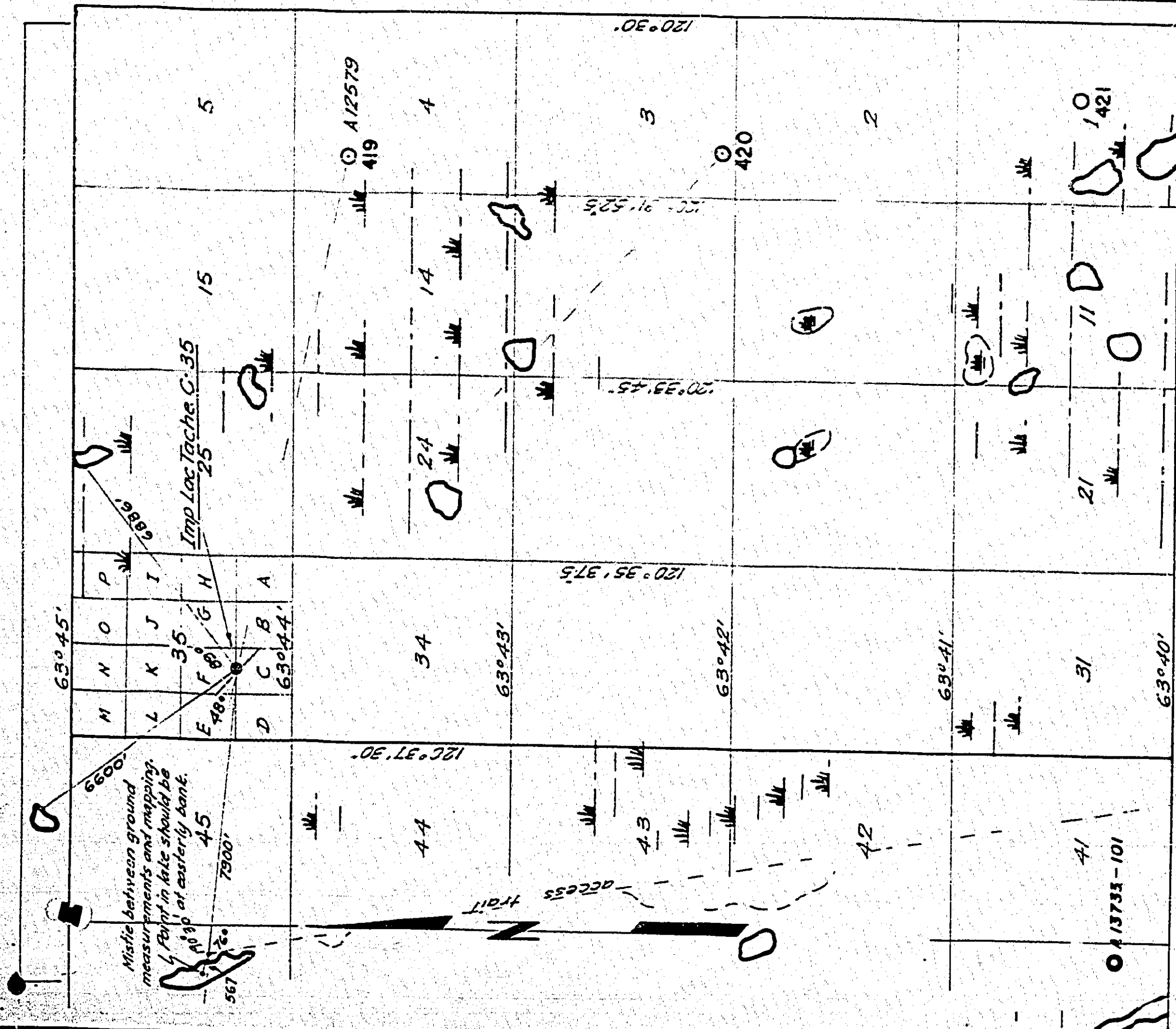
ADDITIONAL DETAILS AND COMMENTS

.
.
.
.
.

Signed. COPY { Original } J. G. RILEY
Signed { } Address Dawson Creek, B.C.

Date April 14th, 1960

(To be submitted in triplicate in accordance with Sections
68, 69, 70 and 71, of the Territorial Oil and Gas Regulations
to the Oil Conservation Engineer at Calgary, Alberta.)



Location Plan for Imp Lac Tache C-35 in C-35-63°50'-120°30'
 North West Territories . Scale: 2"=1 mile 1960
 From Plan: Lat. 63°44'15" Long. 120°36'45"

LEGEND: Map Grid: Territorial Lands Act - Territorial Oil and Gas Regulations.
 Due to remoteness of survey monuments the well is tied to topography for position.
 Mapping by Canadian Aero Service Ltd, Ottawa, from R.C.A.F. photos flown in 1950.
 Mapping control from shorean photos.
 Ground measurements, IOL photos of well and R.C.A.F. photos were used to plot location.
 --- denotes photo centres of R.C.A.F. photos. IMPERIAL OIL LIMITED
 Ground control and photo plotting by: W. G. W. Latimore W. G. W. Latimore
 Dist. Expl. Eng.

Nat. Topo. Series: 95P/NE 5C25

drawn by T.G.W.

FORM "C"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

ABANDON

NOTICE OF INTENTION TO

or

a Well

~~Strike out operation~~

(Strike out operation which does not apply)

In accordance with Sections 48 & 49 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

... ~~Abandon~~ ... the well named ~~Imp Lac Tach~~ 7-35 ... on Oil

Permit No. 2782 . . .

and Gas

Registered in the name of Imperial Oil Ltd.

Lease No.

Depth 5444 . . feet. Elevation above sea level: Ground surface 1008 ft.

Kelly bushing 1013.8 ft.

Location . . 63° 44' N. Lat. 120° 37' W. Long.

... 36574 . . (~~XXXXXXXXXXXXXXX~~) (Permit No. 2782)

(S. of N. boundary) of (Lease No.)

... 12896 . . (W. of E. boundary) of (Permit No. 2782)

(~~XXXXXXXXXXXXXXX~~) (Lease No.)

Survey description, if available

CASING RECORD

Size O.D. inches	Weight lbs/ft	Grade	Amount feet	Set at feet	Sacks cement	Method	to be withdrawn
1 . . 7 . .	. . 20 . .	J-55	. . 180 . .	. . 187 . .	. . 62 . .	Disp.	. . M12 . .
2							
3							
4							

OIL, GAS AND WATER

Oil from . M11 . feet to feet From feet to feet with
... sacks cement

Oil from . M11 . feet to feet From feet to feet with
... sacks cement

Gas from 411 .feet tofeet Fromfeet tofeet with
sacks of cement.

Gas from 411 .feet tofeet Fromfeet tofeet with
sacks of cement.

Water from 470 .feet to 515 .feet Fromfeet tofeet with
sacks cement.

Water from 865 .feet to 936 .feet From 870 .feet to 770 .feet with 25 . .
sacks cement.

Surface and bottom plugs:

1. from 1444 .feet to 1344 .feet with 25 .sacks cement.
2. from 375 .feet to 137 .feet with 125 .sacks cement.
3. fromfeet tofeet withsacks cement.

Date of last operation March 29th, 1960 Total depth 1444

Nature of liquid left in well drilling mud and . . Level from surface to surface . .
on suspension or abandonment

The following logs will be run Electrolog, Microlaterolog
XXXXXXXX

Produced from . . E.A. zone and
on abandonment of a well which has been on production.

Present condition of well in addition to above . . E. A.

On abandonment or suspension of drilling we shall comply with Sections 68, 69 and
70 of the Regulations.

Program of operation not included above 5 sack plug set in top of casing
and steel plate and name plate welded on.

Responsible agents of permittees or lessee in charge of operation:

At well A. J. McCaskill Postal address Imperial Oil Limited
Dawson Creek, B. C.
300 - 9th Avenue, S. W.,
At registered office V. J. Moroney Postal address Calgary, Alberta.

It is understood that if changes in this Notice of Intention become
necessary we will promptly notify you.

dated at Dawson Creek, B.C. this 29th day of March160 . .

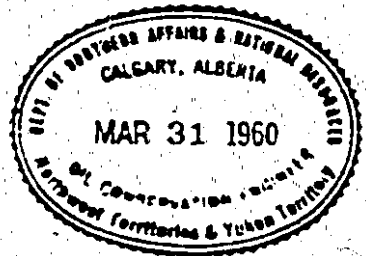
Signed by Copy. (original signed) A. J. McCaskill

This program is approved subject to the following provisions

.. *Confirming oral approval given* ..
.. *26/3/60* ..
..
..

.. *31/3/60* ..
Date .. *at hand* ..
.. *B. H. J. T. H. C. M. S.* ..
Oil Conservation Engineer

(To be submitted in triplicate to the Oil Conservation Engineer at Calgary, Alberta.)



FORM "A"
CANADA

To Christie Kfb
To Palmer.

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES RESOURCES

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

or

TO CARRY OUT A STRUCTURE TEST PROGRAM

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. ~~2742~~ registered in the name of Lease No.

... Imperial Oil Limited ...

TYPE OF WELL:

Wildcat ... ~~Wildcat~~ ...

Development ...

Expected total depth ... 2400 ... feet, in the ... formation of ... Precambrian ... age.

The well will be located at ... 63° 44' ... N. Lat. 129° 37' W. Long.

... 36,574' ... (Permit No. ... 2742 ...)
(S. of N. boundary) of ...
... 12,886' ... (Permit No. ... 2742 ...)
(W. of E. boundary) of ...

Survey description of Location, if known ... to be forwarded ...

Approximate surface elevation of ... to be forwarded ... feet above sea level.

Name of well ... Imp. Les. Traps. G-35 ...

Type of drilling rig ... Hughes Model 2010 ...

Expected date of commencement ... February 20th, 1960. ...

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

Size O.D. Inches	Weight lbs/ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. ... 7" ...	20.0	J55	Seamless	New	200 ±	Sufficient to cement to surface
2. ...						
3. ...						

Expected depth of water, gas and oil horizons and method of control:
Drilling conditions are not known at this time. Normal safe practices
for control of unexpected drilling problems will be used. Surface
casing will be set to sufficient depth to control surface waters.

An electric log will be run Other logs will be run
~~will not~~ ~~will not~~

STRUCTURE TEST PROGRAM

Proposed number of holes Maximum well depth
enclosed within an area bounded by

. N. Latitudes

. W. Longitudes

An electric log will be run Other logs will be run
will not will not

Name and address of drilling contractor Leeson Engineering & Drilling
Company Limited
320 - 39th Avenue, S. E.
CALGARY, Alberta.

Responsible agents of permittee or lessee in charge of operation:

At well A. J. McCaskill Postal address Dawson Creek, B.C.

At registered J. Moroney Postal address Imperial Oil Limited
office 300 - 9th Ave. S. W. Calgary,
Alta.

It is understood that if changes in this Notice of Intention become
necessary we will promptly notify you.

Dated at Dawson Creek this 11th day of February 1960

Signed by [Signature]
District Production Superintendent

This program is approved subject to the following provisions (if any):

18th February 1960
Date

[Signature]
Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at
least 15 days prior to the commencement of drilling)

IMP LAC TACHE C-35

C-35 63° 50'; 120° 30'

CONFIDENTIAL

DMP LAC TACHE C-35

C-35 63° 50'; 120° 30'

SUMMARY OF WELL DATA

Location : To be forwarded
63° 44' 15" 120° 36' 45"

Elevation : Ground: 1008.0'; K.B. 1013.8'

Permit : N.W.T. P. & N.G. Permit 2782

Contractor : Seaman Engineering & Drilling Co., Rig #70

Operator : Imperial Oil Limited

Permitter : Imperial Oil Limited

Classification : New Field Wildcat

Spudded : February 23, 1960

Completed Drilling : April 4, 1960

Total Depth : 1719'

Well Status : Dry and Abandoned

Rig Released : April 6, 1960

Hole Size : 9 7/8" 0' - 335'
5 5/8" 335' - 1719'

Casing : 7" x 187.0'; c. 62 + 2% CaCl₂

Geological : F. Rayer

Summary - cont'd

Formation Tops

PLEISTOCENE		
Glacial Drift		
CRETACEOUS/DEVONIAN SHALES	215'	(+ 799')
Keg River Formation	380'	(+ 634')
Chinichaga Formation	508'	(+ 506')
PRE-DEVONIAN	1320'	(- 306')
Final Total Depth	1719'	(- 705')

Cores

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Recovered</u>
1	350'-370'	CRETACEOUS	14.6'
2	853'-872'	DEVONIAN	19'
3	873'-881'	"	7'

D.S.T.'s

1. 470'-515'; Weak air blow, recovered 440' fresh water. 1st flow 5 mins., 1st shut-in 30 mins. 2nd flow 45 mins., final shut-in 45 mins; DHP. 245; 1st FP. failed; 1st SIP. 175; 2nd FP 70-175; 2nd SIP. 175; FHP. 210; B.H.T. approx. 70°.

2. 865'-936'; Fair air blow, dead in 30 mins. Recovered 300' mud, 300' muddy water @ 4100 ppm NaCl, and 120' watery mud. 1st F. 5 mins; 1st SI. 30 mins; 2nd F. 45 mins; 2nd SI. 45 mins; IHP. 560; 1st FP. failed; 1st SI (no report); 2nd FP. 140-350; 2nd SIP. 350; FHP. 560.

Plugs

<u>No.</u>	<u>Interval</u>	<u>Cement</u>
1	1719'-1619'	C-25 + 2% CaCl ₂
2	870'-770'	C-25 + 2% CaCl ₂
3	375'-137'	C-125 + 2% CaCl ₂
4	Surface	C-5 sacks top surface casing.

Logs

<u>Type</u>	<u>Run</u>	<u>Date</u>	<u>From</u>	<u>To</u>
Electric log	1	March 26, 1960	1496'	188'
Gamma Ray Neutron	1	April 4, 1960	1718'	150'
Sonic Log	1	April 5, 1960	1714'	188'

— F. Rayer —

Geologist

FR:rf
Dawson Creek
April 1960

DMP LAC TACHE C-35

C-35 63° 50'; 120° 30'

LITHOLOGICAL DESCRIPTION

- 0' - 215' PLEISTOCENE - Glacial Drift
Unconsolidated gravel, sand and minor boulders. Gravel of sedimentary, igneous and metamorphic origin, consisting predominantly of buff-brown, carbonate, and grey to pink granitic pebbles. Sand, rounded medium-coarse quartz grains. Variable clay matrix at base.
- 215' - 275' CRETACEOUS/DEVONIAN
Shale, dark brown to black bituminous, light brown streak. Trace pyrite. Shale black, in part tarry, in upper 30'.
- 275' - 323' Shale light grey brown, earthy bentonitic.
- 323' - 380' Interbedded gypsum and shale.
Gypsum, white-chalky to clear crystalline, calcareous in part. Lenses and interbands of grey-brown calcareous shale containing scattered pockets of fine-medium, rounded, frosted quartzose sandstone, in part with gypsum matrix, in part floating quartz grains in brown shale. Scattered minor interlaminated grey gypsiferous limestone.
- 380' - 416' MIDDLE DEVONIAN - Keg River Formation
Dolomite, brown, microcrystalline, subhedral to euhedral. Trace relict skeletal grains. Scattered gypsum stringers at top. Trace to poor, banded, intercrystalline porosity. Patchy oil stain at top.
- 415' - 430' Limestone, dark brown, micrograined. Traces vague skeletal grains, dolomitic. Traces very fine leached vuggy and intergranular porosity.
- 430' - 508' Dolomite brown, micro-fine crystalline, slightly calcareous, slightly argillaceous at base. Traces relict skeletal grains. Banded trace to poor, minor fair intercrystalline porosity.
- 508' - 760' Chinchaga Formation
Anhydrite, white to buff, crypto-fine crystalline, interbedded, anhydrite grey to grey green, cryptocrystalline. Interbedded dolomite, buff, dense to cryptocrystalline, tight, and minor shale, grey-green, anhydritic at base.

Litho Description

- 760' - 820' Interbedded anhydrite, dolomite, shale. Anhydrite, white to grey-green, cryptocrystalline, dolomite, buff cryptocrystalline, tight. Shale, green to grey-green, traces mottled red-green at base, slightly silty in part, scattered floating quartz grains at base.
- 820' - 871' Dolomite, dark brown, dense to cryptocrystalline, anhydritic in part, tight.
- 871' - 874' Fractured dolomite, quartzite infilled, fragmental, thin high angle fractures enclosing lenses of crystalline quartzite, amorphous silica, silicified dolomite and anhydrite. Scattered relict solution cavities.
- 874' - 1280' Dolomite, brown to dark grey, micro-cryptocrystalline, dense and silicified in part at top. Minor interbedded anhydrite lenses and dark grey bituminous shale grading to argillaceous dolomite. Scattered bituminous partings. Traces grey chert. Variable vague relict skeletal material. Scattered micro-medium isolated leached vugs, bitumen coated in part.
- 1280' - 1320' Interbedded dolomite and shale. Dolomite, dark grey, argillaceous to shaly, tight. Shale, dark grey black, dolomitic, slightly silty in part.
- 1320' - 1380' PRE-DEVONIAN
Dolomite, grey-white, cryptocrystalline to dense in part, tight. Scattered pyrite cubes and disseminated flakes. Interbedded sandy dolomite, white to light grey, with floating very fine to medium, rounded, quartz grains. Traces interbedded sandstone, variable white dolomitic matrix, tight.
- 1380' - 1423' Interbedded dolomite and shale. Dolomite, light grey-white, cryptocrystalline, sandy grading to dolomitic sandstone in part, tight. Shale light grey to green, blocky, waxy in part, sandy with floating fine-medium, rounded, poorly sorted quartz grains.
- 1423' - 1719' Sandstone, pink to red, quartzitic, grey-white, dolomitic in upper 8'; fine to coarse, subrounded to rounded, poorly sorted quartz grains. Scattered weathered feldspar, kaolinite and shale grains. Variable white to grey anhydritic matrix, slightly argillaceous with red to maroon argillaceous matrix. Well cemented with clear to pink silica, tight. Traces interlaminated red-maroon shale at base.

DMP LAC TACHE C-35

C-35 63° 50'; 120° 30'

CORE #1

350' - 370' Recovered 14.0'

- 5.0' Gypsum, grey white-buff, translucent, micro-coarse crystalline and massive. Interlaminated grey, calcareous shale and lime-mud. Traces floating quartz grains.
- 0.7' Shale, light grey brown, limy, grading to lime-mud, fragmental in part with angular gypsum fragments. Scattered sandy lenses consisting of very fine to medium rounded and frosted quartz grains in buff-brown dolomitic matrix. Rare sandy patches with white gypsum matrix.
- 1.2' Thinly interbanded gypsum and limy shale as above, fragmental and broken; fragments of gypsum in shale.
- 3.6' Gypsum grey-buff, crystalline to translucent massive with minor scattered irregular lenses and laminae of light grey brown shaly lime-mud.
- 1.7' Shale, light grey brown, calcareous, slightly bentonitic, sandy in part, scattered sandy lenses consisting of very fine to rarely medium, rounded frosted quartz grains, sand occurs in part as floating quartz grains in shale, in part in buff dolomitic matrix. Minor very fine, scattered black shale fragments and grey-white gypsum stringers.
- 0.5' Sandstone, buff light brown, quartzose, very fine to fine rarely medium, rounded, frosted quartz grains, gypsiferous, trace silty, slightly dolomitic, traces pyrite, tight.
- 1.3' Shale, light grey brown limy grading to argillaceous lime mud, scattered floating rounded and frosted quartz grains, fragmental appearance with angular gypsum fragments and stringers and minor black shale fragments. Basal 2" consists of grey brown, partially consolidated, bentonitic shale.

Coring Times:

5, 8, 6, 6, 7, 4, 6, 7, 13, 11, 16, 9, 10, 9, 13, 13, 15, 10, 11, 9.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
March 1960

DMP LAC TACHE C-35

C-35 63° 50'; 120° 30'

COPE #2-

853' - 872' Recovered 19 feet.

18.5'

Dolomite, dark brown cryptocrystalline to dense, anhedral, ~~fine~~ Abundant minute horizontal to low angle bituminous laminae, traces pyrite. Scattered irregular lenses, patches and pods of anhydrite, clear fine to coarse crystalline and light grey-white crypto-microcrystalline. Occasional interlocking anhydrite patches impart a pseudo-fragumental appearance to the core.

0.5'

Quartzite, clear to brown, fine to medium interlocking euhedral quartz crystals, welded in part. Scattered traces intercrystalline porosity. Irregular scattered patches of crystalline anhydrite.

Coring Times:

25, 20, 11, 12, 10, 13, 13, 12, 12, 11, 11, 11,
10, 10, 10, 13, 12, 14, 17.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
March 1960

CORE #3.

873' - 881' Recovered 7 feet.

- 0.3' Quartzite clear to grey, dense-very fine crystalline, recrystallized appearance in part with euhedral quartz crystal enlargement. Scattered micro-medium inter-crystalline (solution ?) cavities, lined with euhedral quartz. Core has pseudo fragmental appearance with scattered lenses of brown dolomite and grey anhydrite. Scattered thin irregular high angle fractures, infilled with clear crystalline quartz.
- 2.5' Dolomite, dark brown, dense, with scattered irregular thin bituminous laminae, slightly silicified at the top. Numerous irregular thin high angle fractures, infilled with quartz. Trace scattered isolated very fine-medium leached vugs.
- 0.5' Dolomite, tan-dark brown, fractures, fragmental appearance with intersecting irregular fractures, in part infilled with quartz. Irregular patches and lenses of anhydrite, silicified dolomite and quartzite. Silicified dolomite lenses, exhibit some banded texture; the more highly silicified lenses grading to quartzite consisting of doubly terminated euhedral, fine-medium quartz crystals.
- 1.7' Dolomite, medium-dark brown, dense to cryptocrystalline with scattered thin irregular bituminous laminae. Scattered high angle fractures as above.
- 2.0' Dolomite, light to dark brown, cryptocrystalline, slightly calcareous, in part. Banded trace - poor leached vuggy porosity. Scattered isolated vugs, fine to coarse lined with euhedral dolomite crystals. Occasional leached vugs have well preserved original skeletal structure (brachiopod moulds).

Coring Times: 35, 33, 36, 43, 19, 12, 16, 40 (Jamming).

— F. Rayer —

Geologist

FR:rf
Dawson Creek
March 1960

WEEKLY CHRONOLOGICAL WELL REPORT

Well DHP LAC TACHE C-35

Location C-35 63° 50'; Elev. Est. 1000'
120° 30'

District Peace River

Week Ending March 1, 1960 Report No. 1

Date	Total Depth	Progress	Days	REMARKS
Feb. 24	150'	150'	1	Spudded 9:00 a.m. February 23, 1960. Drilled 0'-30' with 5 5/8" OSC-3 bit #1 @ 80 RPM in 7 hrs. Tripped. Drilled 30'-40' with 5 5/8" V1 bit #2 @ 80 RPM in 4 hrs. Tripped. Drilled 40'-150' with 5 5/8" V3 bit #3 @ 80 RPM in 12 1/2 hrs. Tripping @ 8:00 a.m. <u>Log:</u> 0-150' Gravel and sand.
Feb. 25	328'	78'	2	Drilled 150'-210' with 5 5/8" V1 bit #4 @ 80 RPM in 5 1/2 hrs. Tripped. Drilled 210'-328' with 5 5/8" V3 bit #5 @ 80 RPM in 6 hrs. Thinned mud, tripped. Reamed 0-10' from 5 5/8" to 7 7/8" with OSC bit #6 in 2 hrs. Tripped. Reamed 0-110 from 5 5/8" to 9" with OSC-3 bit #7 in 6 1/2 hrs @ 80 RPM. Reaming 5 5/8" surface hole to 9" @ 8:00 a.m. 150'-215' Gravel and minor sand. 215'-225' Clay grey, minor shale. 225'-275' Shale, black, brittle bituminous tarry in upper 25' grading to dark brown, below 275'-325' Shale, light grey brown, bentonitic, earthy. 325'-325' Shale, dark brown, bituminous, tarry.
Feb. 26	335'	7'	3	Reamed 5 5/8" surface hole to 9" from 110'-190' with OSC-3 bit #7 in 6 1/2 hrs @ 80 RPM. Tripped. Reamed 190'-328' and drilled 328'-335' with 9" OSC-3 bit #8 in 14 1/2 hrs @ 80 RPM. Tripped. Reamed 0'-20' from 9" to 9 7/8" with OSC-3 bit #9 in 1 hr @ 80 RPM. Reaming 9 7/8" surface hole @ 8:00 a.m. 325'-335' Limestone, grey, micritic-chalky, slightly dolomitic, <u>tight</u> .
Feb. 27	335'	0	4	Reamed 9" surface hole to 9 7/8" from 20'-335' with 9 7/8" OSC-3 bit #9 in 11 hrs. Dummy tripped, measured out. Attempted to run casing. Stuck casing @ 25'. Pulled out. Reamed 0'-335' with 9 7/8" OSC-3 bit in 7 1/2 hrs. Tripped. Running 7" casing @ 8:00 a.m.

WEEKLY CHRONOLOGICAL WELL REPORT

Well BIP LAG TACHE C-35

Location C-35 63° 50'; Elev 1000' Est.
120° 30'.

District Peace River

Week Ending March 1, 1960 Report No. 1
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Date	Total Depth	Program	Days	REMARKS
Feb. 28	335'	0	5	Stuck casing @ 165'. Pulled casing & reamed surface hole with 9 7/8" OSC-3 bit, to 335'. Tripped. Ran 7" casing, stuck @ 165'. Pulled out layed down casing. Reaming surface hole with 9 7/8" bit @ 8:00 a.m.
Feb. 29	335'	0	6	Reamed surface hole with 9 7/8" OSC-3 bit 0'-335' in 6 hrs. Circulated, ran 7" casing, stuck casing @ 195' and cemented. Ran 6 jts., 7", 20 lb/ft. L.C. Japanese casing with Baker float & shoe. Landed @ 187' W.B. Cemented with 62 sacks - 2% CaCl ₂ Cement returns. Plug down @ 4:15 p.m. February 28, 1960. W.O.C. @ 8:00 a.m.
March 1	357'	22'	7	W.O.C. Headed up, pressure tested, flange thread leaked welded casing bowl. Pressure tested 700 lb. Drilled out plug and shoe, and drilled 335'-351' with 5 5/8" V ₂ bit #10 in 1 hr. Circulated, tripped, diamond cored 351'-357' with 4 3/4" Boyles diamond bit #68-59 @ 65 RPM in 3/4 hrs. Repairing pump. @ 8:00 a.m. 325'-350' Limestone, micritic-chalky, gypsiferous/anhydritic, traces sandy, tight.

— F. Payer —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well: IMP LAC TACHE C-35

Location C-35 63° 50'; Elev Est. 1000'
120° 30'. K.B.

District: Peace River

Week Ending March 8, 1960 Report No. 2

Date	Total Depth	Progress	Days	REMARKS
March 2	461'	164'	8	Diamond cored 357'-370' with 4 1/2" Boyles bit #68-59 in 3 1/2 hrs @ 6-8000 lb. & 65-78 RPM. Recovered core #1. Reamed 350'-370' & drilled 370'-398' with 5 5/8" V3 bit #11 @ 3000 lb. & 150 RPM in 5 1/2 hrs. Tripped, drilled 398'-461' with 5 5/8" V2D bit #12 in 10 hrs., @ 3000 lb. & 150 RPM. Drilling @ 8:00 a.m. Core #1. (350'-370' / Rec. 14.6'; 14.6' Gypsum, grey-white, with interbedded brown, slightly sandy, slightly bentonitic, shale and lime mud. 370'-375' Gypsum and interbedded limy shale as above. 375'-410' Dolomite, brown, trace-poor porosity. 410'-430' Limestone, dolomitic, grey-brown, traces porosity. 430'-460' Dolomite, brown, micro-fine crystalline, <u>traces porosity.</u>
March 3	521'	60'	9	Drilled 461'-462' with 5 5/8" V2D bit #12 @ 3000 lb. & 150 RPM. Tripped, drilled 462'-515' with 5 5/8" V3 bit #13 in 8 hrs @ 5000 lb. & 90 RPM. Circulated, measured out, made up packer. Ran DST #1. Layed down packer, ran in drilled 515'-521' with 5 5/8" V3 bit #14 @ 100 RPM in 1 1/2 hrs. Drilling @ 8:00 a.m. 460'-80' Dolomite brown, micro-very fine crystalline, <u>traces porosity.</u> 480'-508' Dolomite grey brown, calcareous, poor, <u>traces fair porosity.</u> 508'-521' Anhydrite, massive, grey-white. DST #1. (470'-515') 1st Flow: 5 mins; initial shut-in 30 mins; 2nd flow (1/4" choke) 60 mins; (3/4" choke) 45 mins; Final shut-in 45 mins; Weak air blow, recovered 440' slightly muddy fresh water. HP. 245-210; SIP. 175-175; 1st flow - NR (plugged) 2nd flow - (1/4") NR 2nd flow - (3/4") 70-175 psi.
March 4	581'	60'	10	Drilled 521'-555' with 5 5/8" V3 bit #14 @ 110 RPM. Tripped, drilled 555'-581' with 5 5/8" OSC bit #15 @ 6000 lb. & 110 RPM in 8 1/2 hrs. Drilling @ 8:00 a.m. 521'-581' Anhydrite, massive grey to buff.

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50'; Elev 1000' K.B.
120° 30'.

District Peace River

Week Ending March 8, 1960 Report No 2
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Date	Total Depth	Progress	Days	REMARKS
March 5	634'	53'	11	Drilled 581'-594' with 5 5/8" OSC bit #15 @ 80-90 RPM & 6000 lb. Tripped, drilled 594'-634' with OSC-5 5/8" OSC bit #16 @ 80-90 RPM & 6000 lb. in 16½ hrs. Tripping @ 8 a.m. 581'-634' Anhydrite, grey-white minor interbedded dolomite, buff dense, <u>tight</u> .
March 6	705'	71'	12	Drilled 634'-635' with OSC-3 5 5/8" bit #16 @ 95 RPM & 6000 lb. in 1/3 hrs. Tripped. Drilled 635'-677' with OSC-3 bit #17 @ 110 RPM & 6000 lb. in 9½ hrs. Tripped, drilled 677'-705' with 5 5/8" OSC-3 bit #18 @ 100-110 RPM in 10½ hrs. Drilling @ 8:00 a.m. 634'-705' Anhydrite, massive, grey-white, interbedded buff, dense, dolomite.
March 7	765'	60'	13	Drilled 705'-715' with 5 5/8" OSC-3 bit #18 @ 110 RPM & 6500 lb. in 4½ hrs. Tripped, drilled 715'-755' with 5 5/8" OSC bit #19 in 12½ hrs @ 150 RPM & 6500 lb. Tripped, drilled 755'-765' with OSC-3 bit #20 in 3½ hrs. Drilling @ 8:00 a.m. 705'-765' Interbedded dolomite, buff dense, tight and anhydrite. grey.
March 8	831'	66'	14	Drilled 765'-798' with 5 5/8" OSC-3 bit #20 in 7½ hrs. @ 145 RPM & 6500 RPM. Tripped, layed down 2 drill collars, drilled 798'-831' with 5 5/8" V3 bit #21 in 12½ hrs @ 145 RPM & 6500 lb. Drilling @ 8:00 a.m. 765'-831' Anhydrite, grey, green, buff, mottled in part, dolomitic, argillaceous in part, trace silty. Interbedded dolomite, microcrystalline to dense, buff, <u>tight</u> .

— F. Rayer —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORTWell **DMP LAC TACHE C-35**Location **C-35 63° 50'; 120° 30'.** Elev. **1000'**District **Peace River**Week Ending **March 15, 1960** Report No. **3**

Date	Total Depth	Progress	Days	REMARKS
March 9	872'	41'	15	Drilled 831'-832' with V3 5 5/8" bit #21 in 1 hr. Tripped. Drilled 832'-853' with 5 5/8" OSC-3 bit #22 @ 8000 lb & 135 RPM in 7 1/2 hrs. Circulated, measured out, pipe tally correct. Made up core barrel cut core #2. 853'-872' with 4 1/2" Boyles diamond bit #68-59 @ 150 RPM & 8000 lb. in 4 hours. Recovered core, layed down barrel. Preparing to ream rat hole @ 8:00 a.m. 831'-853' Dolomite, dark brown, dense, minor interbedded anhydrite. Core #2. 853'-872'; Rec. 19'. 18.5' Dolomite, dark brown cryptocrystalline to dense, <u>tight</u>. Scattered patches and lenses of anhydrite. 0.5' Quartzite, grey-brown, fine-medium, euhedral quartz crystals, welded, <u>trace porosity</u>. Scattered patches anhydrite.
March 10	882'	10'	16	Reamed 4 1/2" rathole to 5 5/8" with 558 V2 RR bit #10 in 2 1/2 hrs @ 90 RPM. Drilled 872'-872 1/2' in 2 hrs. Tripped, drilled 872 1/2'-873' with 5 5/8" V2D RR bit #12 in 2 1/2 hrs @ 8000 lb & 90 RPM. Tripped, picked up core barrel, cut diamond core #3 (873'-881') in 3 1/2 hrs @ 8000 lb & 90 RPM with 4 1/2" Boyles bit #68-59. Recovered core, layed down barrel. Reamed rathole to 5 5/8" with W7R bit #23 in 2 1/2 hrs and drilled (881'-882') in 1/2 hrs @ 8000 lb & 100 RPM. Drilling @ 8 a.m. 872'-873' Quartzite, grey brown, dense - fine crystalline quartz. Core #3. (873'-881') Rec. 7'. 0.3' Quartzite, dense, very fine crystalline, scattered anhydrite patches. <u>Scattered thin fractures</u>. 2.5' Dolomite, dark brown, dense trace bituminous partings. <u>High angle fractures</u> in part quartz infilled. <u>Trace leached vugs</u>. 0.5' Dolomite, tan-brown, fractured, fragmental, patches, silicified dolomite, quartzite and anhydrite. 1.7' Dolomite brown, dense cryptocrystalline, <u>scattered high angle fractures</u>.

WEEKLY CHRONOLOGICAL WELL REPORT

Well DHP LAC TACHE C-35

Location C-35 63° 50'; 120° 30'. Elev. 2000' K.B.

District Peace River

Week Ending Mar. 15, 1960 Report No. 23
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Date	Total Depth	Progress	Days	REMARKS
March 10 - cont'd				2.0' Dolomite, brown, slightly calcareous in part, banded trace vuggy porosity. <u>Scattered fine-medium vugs, in part having preserved skeletal structure.</u>
March 11	914'	32'	17	Drilled 882'-897' with WTR bit #23 @ 6700 lb. & 85 RPM in hrs. Tripped, drilled 897'-914' with OWS 5 5/8" bit #24 @ 6700 lb. & 85 RPM in 10 hrs. Drilling @ 8:00 a.m. 882'-914' Dolomite, brown crypto-microcrystalline, trace anhydrite, <u>traces vuggy porosity.</u>
March 12	936'	22'	18	Drilled 914'-929' with OWS bit #24 @ 90 RPM & 6800 lb in 7 1/2 hrs. Tripped, drilled 929'-936' with OWS bit #25 @ 130 RPM & 6800 lb in 3 1/2 hrs. Losing mud. Surveyed, tripped Ran DST #2. Tripped ran in with OSC bit #26, drilling @ 8:00 a.m. 914'-936' Dolomite brown, crypto-microcrystalline. <u>Trace scattered pinpoint - very fine vuggy porosity.</u> <u>DST #2.</u> (865'-936') 1st flow 5 mins; 1st shut-in 30 mins; 2nd flow 45 mins; 2nd shut-in 45 mins; W.I.P. Fair air blow, decreasing, dead in 30 mins. Recovered 720' fluid. 300' mud, 300' muddy water @ 4100 ppm NaCl; 120' mud. H.P. 550-560; lost flow - failed, could not get bleed off. 1st shut-in - not recorded due to failure of 1st flow. 2nd I.F. 140; 2nd FF. 350; Second shut-in 350.
March 13	975'	39'	19	Drilled 936'-965' with 5 5/8" OSC bit #26 @ 6800 lb & 90 RPM in 6 1/2 hrs. Tripped, drilled 965'-975' with 5 5/8" OSC bit #27 @ 6800 lb & 125 RPM, in 7 1/2 hrs. Drilling @ 8 a.m. 936'-975' Dolomite, brown, micro-crypto crystalline, <u>trace vuggy porosity.</u>

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50'; Elev 1000' K.B.
120° 30'.

District Peace River

Week Ending Mar. 15/60 Report No. 3
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Date	Total Depth	Progress	Days	REMARKS
March 14	997'	22'	20	Drilled 975'-990' with 5 5/8" OSC bit #27 @ 6800 lb & 125 RPM in 10 1/2 hrs. Tripped, drilled 990'-992' with V. bit #28 @ 8500 lb. & 100 RPM in 1/2 hrs. Pulled out repairs power end and pumps. Ran in reamed 100', drilled 992'-997' with bit #28 @ 8500 & 100 RPM. 975'-997' Dolomite, brown microcrystalline, bituminous partings. <u>Traces vugs.</u>
March 15	1036'	39'	21	Drilled 997'-1018' with VI, 5 5/8" bit #28 @ 150 RPM & 8000 lb. Tripped, drilled 1018'-1036' with R ¹ bit #25 @ 150 RPM & 8500 lb. in 8 1/2 hrs. Drilling @ 8:00 a.m. 997'-1036' Dolomite, buff, micro-crystalline, slightly anhydritic, slightly argillaceous (970'-1010') <u>Essentially tight.</u> <u>Trace isolated vugs.</u>

— F. Rayer —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50'; Elev 1014'
120° 30'

District Peace River

Week Ending March 22/60 Report No. 4

Date	Total Depth	Progress	Days	REMARKS
March 16	1076'	40'	22	Drilled 1036'-1037' with OWS. Rerun bit #25 @ 100 rpm & 8,000 lb in 4 hr. Tripped, drilled 1037'-1072' with 5 5/8" OSC bit #29 @ 8500 lb & 150 RPM in 16 1/2 hrs. Tripped, drilled 1072'-1076' with OSC bit #30 @ 150 RPM and 8500 lb in 1 1/2 hrs. Drilling @ 8 a.m. 1036'-1076' Dolomite, brown-buff, micro-cryptocrystalline, partly slightly anhydritic, <u>tight</u> .
March 17	1124'	48'	23	Drilled 1076'-1112' with OSC bit #30 in 14 1/2 hrs @ 8500 lb & 150 RPM, Tripped, worked on pump, drilled 1112'-1124' with 5 5/8" V1 bit #31 in 5 1/2 hrs @ 10,000 lb & 150 RPM. Drilling @ 8:00 a.m. 1076'-1124' Dolomite, brown-buff, micro-cryptocrystalline, <u>tight</u> . Slightly anhydritic in part. Traces chert.
March 18	1143'	19'	24	Drilled 1124'-1126' with 5 5/8" V1 bit #31 in 1/2 hr @ 140 RPM & 15000 lb. Twisted off @ 315' K.B. Picked up fish on 4th run with overshot. Dug new mud pits, mixed mud. Ran in reamed 140' to bottom & drilled 1126'-1143' with OWS 5 5/8" bit #32 in 9 hrs @ 150 RPM & 10,000 lb. Drilling @ 8:00 a.m. 1124'-1143' Dolomite, brown, micro-cryptocrystalline, slightly argillaceous, slightly anhydritic, <u>tight</u> .
March 19	1184'	41'	25	Drilled 1143'-1161' with 5 5/8" OWS bit #32 in 9 1/2 hrs @ 150 RPM & 10000 lb. Tripped, drilled 1161'-1184' with OWS bit #33 in 12 1/2 hrs @ 150 RPM & 10500 lb. Drilled @ 8 a.m. 1143'-1184' Dolomite, grey, micro-cryptocrystalline, <u>tight</u> .
March 20	1219'	35'	26	Drilled 1184'-1190' with OWS #33 in 3 1/2 hrs @ 10M lb & 150 RPM. Twisted off bit sub, 1' above bit. Recovered with spear on 1st run. Drilled 1190'-1219' with OWS 5 5/8" bit #34 in 13 1/2 hrs @ 10M lb & 150 RPM. Drilling @ 8:00 a.m. 1184'-1219' Dolomite grey, micro-cryptocrystalline, very slightly anhydritic, <u>tight</u> .

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50'; Elev 1014'
120° 30'

District Peace River

Week Ending March 22/60 Report No 4
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Date	Total Depth	Progress	Days	REMARKS
March 21	1256'	37'	27	Drilled 1219'-1222' with OWS 5 5/8" bit #34 in 1 1/2 hrs @ 150 RPM & 10,000 lb. Tripped, measured out, corrected pipe-tally 3' to 1219'. Drilled to 1252' with OWS bit #35 in 1 1/2 hrs @ 10900 lb & 150 RPM. Tripped, drilled 1252'-1256' with OWS bit #36 in 1 1/2 hrs @ 150 RPM & 10900 lb. Drilling @ 8 a.m. 1219'-1256' Dolomite, grey, micro-crypto-crystalline, slightly anhydritic, slightly argillaceous @ base. Minor chert, <u>tight</u> .
March 22	1300'	44'	28	Drilled 1256'-1284' with OWS bit #36 in 13 hrs @ 150 RPM & 11,000 lb. Tripped. Re-paired shaker, drilled 1284'-1300' with OWS #37 in 8 hrs @ 11,000 lb & 150 RPM. Drilling @ 8:00 a.m. 1256'-1300' Dolomite, grey, micro-crypto-crystalline, slightly argillaceous to argillaceous @ base. Trace anhydritic, <u>tight</u> . Trace red shale matrix below 1290'. Minor dark grey, bituminous, dolomitic shale @ base.

— R. Rayer —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well DMP LAC TACHE C-35

Location C-35 63° 50' N;
120° 30' W

Elev 1014'

District Peace River

Week Ending Mar. 29/60

Report No 5

Date	Total Depth	Progress	Days	REMARKS
March 23	1336'	36'	29	Drilled 1300'-1317' with OSW 5 5/8" bit #37 @ 11000 lb & 150 RPM in 9 hrs. Tripped. Drilled 1317'-1336' with OSW bit #38 @ 13000 lb & 100 RPM in 9 1/2 hrs. Tripping @ 8 a.m. 1300'-1317' Dolomite microcrystalline, dark grey argillaceous, bituminous, <u>tight</u> . Interbedded shale, dark grey, slightly silty, dolomitic. 1317'-1336' Dolomite, light grey crypto-crystalline, sandy with fine-coarse rounded to subrounded floating quartz grains. Minor pyrite, <u>tight</u> .
March 24	1374'	38'	30	Drilled 1336'-1362' with 5 5/8" OSW bit #39 in 1 1/2 hrs @ 90-125 RPM & 13,000 lb. Tripped. Drilled 1362'-1374' with OSC bit #40 in 5 1/2 hrs @ 90 RPM & 13,000 lb. Drilling @ 8:00 a.m. 1336'-1374' Dolomite, grey-white, crypto-crystalline to dense, <u>tight</u> . Trace scattered floating quartz grains. Trace green shale partings @ base.
March 25	1412'	38'	31	Drilled 1374'-1395' with OSC- 5 5/8" bit #40 in 12 1/2 hrs @ 90-150 RPM & 13,000 lb. Tripped. Drilled 1395'-1412' with OSW bit #41 in 6 1/2 hrs @ 90 RPM & 13,000 lb. Drilling at 8:00 a.m. 1374'-1385' Dolomite, grey-white crypto-crystalline, <u>tight</u> . 1385'-1412' Dolomite, grey-white, sandy, grading to sandstone, in part fine-medium rounded quartz grains, <u>tight</u> . Interbedded shale, green sandy in part.
March 26	1444'	32'	32	Drilled 1412'-1432' with OSW bit #41 in 14 hrs @ 140-90 RPM & 13,500 lb. Tripped lost all bearings from bit in hole, drilled 1432'-1442' with WTR bit #42 in 5 1/2 hrs @ 14000 lb & 90-140 RPM. Tripped, drilled 1442'-1444' with WTR #43 in 4 hrs @ 10000lb & 60 RPM. Drilling @ 8 a.m. 1412'-1425' Dolomite light grey/white, sandy interbedded shale grey-green, minor sandstone, grey/white, fine-coarse, quartzose, dolomitic, <u>tight</u> .

IMPERIAL OIL LIMITED

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50';
120° 30' Elev 1014'

District Peace River

Week Ending Mar. 29/60 Report No. 5
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Date	Total Depth	Production	Days	REMARKS
March 26	cont'd			1425'-1430' Sandstone, grey-white, <u>tight</u> . 1430'-1444' Sandstone, grading to quartzitic pink & light red, fine-coarse, rounded quartz, minor feldspar, well cemented with clear & pink silica.
March 27	1471'	27'	33	Drilled 1444'-48' with WTR bit #43 in 4 hrs @ 14,000 lb & 90-130 RPM. Conditioned mud, measured out. Attempted to run E-log, equipment found to be defective, unsatisfactory for logging. Attempted second run with E-log, bridged @ 370'. Ran in with WTR bit #44, reamed 140' to bottom, drilled ahead 1448'-67' in 6 hrs @ 14,000 lb & 140 RPM. Tripped, drilled 1467'-71' with WTR bit #45 in 1½ hrs @ 14,000 lb & 140 RPM. Drilling @ 8:00 a.m. 1444'-1450' Sandstone, pink, fine-medium rounded quartz, silica cemented quartzitic <u>tight</u> . 1450'-1471' Sandstone, pink, trace green @ base, quartzose, rounded, fine-coarse, trace weathered shale, kaolinitic & dolomitic grains. Trace porosity. Essentially <u>tight</u> .
March 28	1495'	24'	34	Drilled 1471'-1482' with WTR bit #45 in 6½ hrs @ 14,000 lb & 90 RPM. Tripped, drilled 1482'-1495' with VI bit #46 in 6½ hrs @ 14,000 lb & 80 RPM. Conditioned mud. Pulled out to log. Running E-log @ 8:00 a.m. 1471'-1495' Sandstone pink, trace green to 1480', quartzose fine-medium rounded, well cemented grains. Traces feldspar. Minor weathered grey/green shale grains and matrix, <u>tight</u> . Grades to quartzite in part.
March 29	1497'	2'	35	Completed E-log. Attempted to run Induction tool, bridged at 400'. Ran in with VI bit #47, reamed out bridge, ran into bottom, drilled ahead 1495'-1497' while conditioning mud. Brought viscosity up to 90 and circulated hole clean. Pulled out to log. Attempted sonic log, bridged at 400-500'. Ran in with VI bit #47, reamed out bridge, circulated. Pulling out to log @ 8 a.m.

WEEKLY CHRONOLOGICAL WELL REPORT

REF ID: A66042

Location C-35 63° 50';
120° 30'

Elev 1014' KB

District Peace River

Week Ending Mar. 29/60

Report No. 5
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Date	Total Depth	Program	Time	REMARKS
March 29	cont'd			1495'-1497' Sandstone, pink, quartzitic, traces feldspar, trace shale grains, silica cemented, <u>tight</u>. — F. Rayer — Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C/35

Location C-35 63° 50';
120° 30'.

Elev 1014' K.S.

District Peace River

Week Ending April 5, 1960 Report No. 6

Date	Total Depth	Progress	Days	REMARKS
March 30	1529'	32'	36	Pulled out after clean-out trip. Attempted to run sonic log, made 2 unsuccessful runs. Could not get completely to bottom & instruments not working satisfactorily. Ran in with WTR bit #48, reamed 60' to bottom, drilled 1497'-1515' in 9 hrs @ 13000 lb & 80 RPM. Tripped, drilled 1515'-1529' with WTR bit #49 in 6 hrs @ 13000 lb & 80 RPM. Drilled @ 8:00 a.m. 1497'-1529' Sandstone pink, quartzitic, fine-medium rounded quartz grains, patches grey-green argillaceous matrix. Silica cemented <u>tight</u> . Interbedded, green to light grey sandstone, (1405'-1409'), <u>tight</u> .
March 31	1566'	37'	37	Drilled 1529'-1531' with WTR 5 5/8" bit #49 in 2 hrs @ 13000 lb & 90 RPM. Tripped, Drilled 1531'-1547' with OWS bit #50 in 8 1/2 hrs @ 13000 lb & 90 RPM. Tripped. Drilled 1547'-1566' with WTR bit #51 in 9 1/2 hrs @ 13000 lb & 80 RPM. Drilling @ 8:00 a.m. Sandstone grading to quartzite in part, fine medium, quartzose, pink to red with argillaceous red matrix silica cement, <u>tight</u> .
April 1	1598'	32'	38	Drilled 1566'-67' with WTR bit #51 in 1 1/2 hr @ 13M lb & 80 RPM. Tripped, drilled 1567'-1583' with OWS bit #52 in 6 1/2 hrs @ 13000 lb & 80 RPM. Tripped, drilled 1583'-1593' with OWS bit #53 in 5 1/2 hrs. @ 13000 lb & 80 RPM. Tripped, drilled 1593'-1598' with OWS bit #54 in 4 1/2 hrs @ 13000 lb & 80 RPM. Drilling @ 8:00 a.m. 1566'-99' Sandstone, grading to quartzite, pink-red, fine-coarse quartz grains, slightly conglomeratic at base, minor red argillaceous matrix, <u>tight</u> .
April 2	1624'	26'	39	Drilled 1598'-1601' with OWS bit #54 in 1 hr @ 13000 lb & 70-80 RPM. Tripped, drilled 1601'-1608' with rerun bit WTR #23 @ 14000 lb & 80 RPM in 6 1/2 hrs. Tripped, drilled 1608'-1613' with OWS bit #55 @ 14M lb & 80 RPM in 4 hrs. Tripped, drilled 1613'-1624' with OWS bit #56 in 5 1/2 hrs @ 14000 lb & 70 RPM. Drilling @ 8:00 a.m.

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP LAC TACHE C-35

Location C-35 63° 50'; Elev 1014' K.B.
120° 30'.

District Peace River

Week Ending April 5, 1960 Report No. 6
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Date	Total Depth	Progress	Days	REMARKS
April 2	cont'd			Sandstone, pink to grey, fine-medium quartzose, well cemented with silica, grey kaolinitic/argillaceous matrix. Scattered weathered shale grains, <u>tight</u> .
April 3	1659'	35'	40	Drilled 1624'-1638' with OWS bit #56 in 4 1/4 hrs @ 14000 lb & 80 RPM. Tripped, installed new Power end for Gardner-Denver pump. Ran in reamed 16' to bottom, drilled 1638'-1659' with WTR bit #57 in 11 1/2 hrs @ 13000 lb & 80 RPM. Tripping @ 8:00 a.m. 1624'-59' Sandstone, pink-red, fine-medium quartzose, anhydritic matrix in part. Silica cemented, <u>tight</u> .
April 4	1702'	43'	41	Drilled 1659'-1692' with 5 5/8" WTR bit #58 in 14 hrs @ 13000 lb & 80 RPM. Tripped, dropped pipe in slips, sheared off string above tool joint. Pipe dropped 800' to bottom. Ran in recovered fish with spear on first run. Tripped, drilled 1692'-1702' with OWS bit #59 in 3 1/4 hrs @ 14000 lb & 70 RPM. Drilling @ 8:00 a.m. 1659'-1702' Sandstone, pink-red, fine-medium quartzose, variable, white cryptocrystalline anhydritic matrix. Minor red shale matrix. Well cemented with silica, <u>tight</u> . Traces interlaminated red shale.
April 5	1719' F.T.D	17'	42	Drilled 1702'-1717' with OWS 5 5/8" bit #59 in 5 1/2 hrs @ 14000 lb & 70 RPM. Conditioned hole, circulated hole clean, measured out to log, corrected pipe tally to 1719'. Ran Gamma Ray Sonic Log. Ran Sonic log. Running M.L.L. @ 8:00 a.m. 1702'-1717' Sandstone, pink-red, fine-medium subrounded, quartz grains, minor red argillaceous & white anhydritic matrix. Well cemented with silica <u>tight</u> .

-- F. Rayer --

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well: MP LAC TACHE C-35

Location C-35 63° 50'; 120° 30'. Elev. 1014' KB

District: Peace River

Week Ending April 12, 1960 Report No. 7

Date	Total Depth	Pressure	Days	REMARKS
April 6	1719'	-	43	Attempted to run microlaterolog, bridged on first run, could not run tool below 380'. Layed down drill pipe. Ran plug #1. 1719'-1619'; Cemented with 25 sacks + 2% CaCl₂. Plug down @ 12:30 p.m. April 5th. Ran plug #2. 870'-770'; Cemented with 25 sacks + 2% CaCl₂. Plug down @ 2:30 p.m. April 5th. W.O.C. Felt for plug #2 @ 72'. Ran plug #3. 375'-137'; Cemented with 125 sacks + 2% CaCl₂. Plug down @ 12 p.m. April 5th. Felt plug #3 @ 40'.
April 7	1719'	-	44	Mixed 5 sacks cement and ran surface plug. Welded plate in casing. <u>His Released 11 a.m. April 6, 1960.</u>

— F. Rayer —

Geologist

DMP LAC TACHE C-35 C-35 63/ 50'; 120° 30'

Weekly Geological Well Report #1 for Week Ending March 1, 1960

Est. K.B. 1000'

Depth

Drilled

: 0' - 335' (5 5/8") (surface hole).

Reamed

: 0' - 335' to 2 7/8"

Total Footage for Week

Casing

: Ran 6 jtr., 7", 200'/ft., L.C. Japanese Casing
with Baker float and shoe. Landed 137' K.B.
Cemented with 100 sacks + 2% CaCl₂.

Markers

: Middle Devonian 215' (+ 785' Est.)
Middle Devonian Carbonate 325' (+ 675' Est.)

Remarks

: The 215' section of glacial drift penetrated at
Lac Tache is comprised mainly of gravel, minor
sand and occasional boulders. The gravels consist
predominantly of buff to brown, subrounded carbonate
pebbles and grey to pink granitic pebbles with
minor metamorphics and silicified shale. Some grey
clay was encountered in the basal 10'.
The Devonian shale appears to have been subjected to
hydrocarbon seepage, the upper 30' consisting of
black, tarry to brittle shale, grading below 250' to
dark brown bituminous shale containing minor
disseminated pyrite.
The brown (Horn River ?) shale grades to a light
brown bentonitic to earthy shale in the lower part
of the section, between 275' and 325'.
The Middle Devonian carbonate topped at 325' (+ 675')
consists of grey micritic, anhydritic to gypsiferous
limestone and interlaminated white chalky to clear
crystalline gypsum. Minor sandy laminae are present,
consisting of rounded, fine grained quartz grains in
white chalky gypsum/anhydrite matrix.
Porosity is not developed in the 25' section of
evaporitic carbonate penetrated to date.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
March 1960

DMP LAC TACHE C-35 C-35 63° 50'; 120° 30'

Weekly Geological Well Report #2 for Week Ending March 8, 1960.

Depth : 831'

Diamond Core : 357' - 370' (13')

Drilled : (5 5/8") 370' - 831' (461')

Total Footage for Week : 474'

Tests : 1. 470'-515'; Recovered 440' fresh water
(820 ppm NaCl).

Reservoirs : The expected Keg River limestone of the Middle Devonian Carbonate, is replaced at Lac Tache by a thin evaporitic section consisting of massive, chalky to clear crystalline gypsum interlaminated with minor micritic limestone at the top and, calcareous shale. Lenses of sandstone consisting of fine to medium, rounded and frosted quartz grains, occur in scattered shale interbands and minor bentonitic shale is present at the base. Trace to poor intercrystalline porosity is developed in the upper part of the Middle Devonian dolomite and poor to fair intercrystalline porosity, in the basal 25'. The dolomite section consists of brown microcrystalline, subhedral to euhedral, dolomite having some patchy staining in the upper 25'. Interbedded dark brown micrograined limestone occurs between 415' and 430', having traces of skeletal material. Porosity consists of trace intergranular and fine vuggy porosity. The lower dolomite section (is comprised of) microcrystalline to fine crystalline subhedral to euhedral dolomite, containing traces of vague relict skeletal material. Banded poor to fair intercrystalline and traces scattered fine leached vuggy porosity occur in the basal section. It was not possible to test the upper section or entire zone at the time of drilling, however, a drill stem test of the basal 40' yielded 440' fresh water.

Weekly Report #2.

- : The evaporitic section underlying the Mid Devonian dolomite, consists of massive anhydrite, with interbedded dense primary dolomite. Gray, green, slightly argillaceous and dolomitic anhydrite occurs below 650', interbedded with primary dolomite, and contains scattered slightly silty laminae and green shale partings.

Remarks

- : (1) The Mid Devonian, Keg River carbonate of Windflower including the upper limestone and part of the underlying dolomite, is represented in part by the evaporite section at Lac Tache. The presence of bentonitic shale bands in the gypsum, similar to the light brown shale overlying it, suggests that the top of the Keg River equivalent at Lac Tache includes the brown bentonitic shale section below 275'. This bentonitic shale section is overlain by bituminous dark brown, shale, similar to the Horn River shale that overlies the Keg River carbonate at Windflower and Willow Lake.

The porous dolomite and underlying evaporites at Lac Tache correlate in thickness with the section at Windflower. The dolomite, a possible Chinchaga? equivalent, contains only minor relict skeletal material at Lac Tache; the skeletal/micrite ratio being considerably greater at Windflower. The interbedded limestones support this stratigraphic variation being micritic at Lac Tache and skeletal at Windflower.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
March 1960

Weekly Geological Well Report #3 for Week Ending March 15, 1960.

Depth : 1036'

Drilled : 831' - 853': 22'
 872' - 873': 1'
 881' - 1036': 155'
 Total: 178'

Cored : #2. 853' - 872' (19') Rec. 19'
 #3. 873' - 881' (8') Rec. 7'
 Total core: 27'; Rec. 26'

Total Footage for Week : 205'

Tests : #2 (865'-936') Pre-Devonian fractured dolomite.
 Recovered: 720' fluid (300' mud @ top
 (300' muddy water @ 4100 ppm NaCl
 (120' watery mud.

Reservoirs : Porosity is not developed in the Pre-Devonian dolomite immediately underlying the basal Chinchaga (and/or Upper Ordovician ?) evaporite section. The latter consists of grey to grey-green anhydrite and interbedded tight primary dolomite with minor green shale below 760'. Traces silt, floating quartz grains and trace mottled green to red shale occur at the base.

The Pre-Devonian dolomite section, below 820' consists of tight, dense to cryptocrystalline, dark brown dolomite, containing minor anhydrite lenses and scattered thin bituminous laminae.

A three foot fractured, quartz invaded zone occurs at 871' and is comprised of amorphous silica grading to doubly terminated euhedral, fine-medium crystalline quartzite. Lenses and the interbands of fragmental dolomite are contained and enclosed by irregular high angle intersecting fractures. Scattered patches of anhydrite and silicified dolomite occur throughout the zone. A few relict solution? cavities occur within the quartzite.

Weekly Report #3

- : Below the fractured quartzitic band, the section is comprised of buff-brown micro-cryptocrystalline dolomite, having some minor fracturing. Scattered micro-medium leached vugs, in part coated with bitumen occur throughout the dolomite, some having well preserved original skeletal structure. Abundant bituminous partings and minor interlaminated black bituminous shale occurs below 960'.

A test of the fractured quartzitic zone including a 60' section of underlying dolomite yielded 300' mud, 300' muddy slightly salty water and 120' watery mud.

Remarks

- : The section penetrated during the past week correlates generally in structure and lithology with that of Windflower. Stratigraphically the pre-Devonian dolomite section at Lac Tache is predominantly a dolomitized micritic limestone, containing only minor relict skeletal material, in contrast to the section at Windflower in which there appears to be a higher skeletal content. This is reflected in the poor porosity development; the Lac Tache section containing only minor scattered leached vugs. The reported fracturing at Windflower appears to be correlative with that in the dolomite at Lac Tache. There is no evidence of brecciation, however, as encountered at Cartridge.

— F. Payer —

Geologist

FB:rf
Dawson Creek
March 1960

DWP LAC TACHE C-35 C-35 63° 50'; 120° 30'

Weekly Geological Well Report #4 for Week Ending March 22, 1960

K.B. 1014'

Depth : 1300' Drilling in Pre-Devonian dolomite

Drilled : 1036' - 1300'

Total Footage for Week : 264'

Reservoirs : Micro-cryptocrystalline dolomite, in which there is no significant porosity development, comprises the section penetrated during the past week. Brown to buff, in part primary, dolomite grades below 1100' to grey mottled dolomite having traces of vague relict skeletal texture. Complete dolomitization has obscured most of the original texture, except in a few chertified lenses where skeletal textures are preserved. Interbedded slightly argillaceous dolomite and scattered anhydrite patches occur below 1100'. A few isolated bitumen coated vugs occur at scattered intervals within the section. Dark grey shaly and slightly silty dolomite containing traces of red to brown argillaceous matrix, interbedded with dark grey, dolomitic and bituminous shale, comprises the basal 15' of section penetrated.

Remarks : The dolomite occurrence below 1220' at Lac Tache represents a significant stratigraphic variation from the section penetrated at Windflower. The additional dolomite may represent a marked thickening of the section or a stratigraphic variation in which the upper part of the Windflower shale is represented by dolomite at Lac Tache. A similar variation occurs at Cartridge.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
April 1960

DMP LAC TACHE C-35 C-35 63° 50'; 120° 30'

Weekly Geological Well Report #5 for Week Ending March 29, 1960.

Depth : 1497' Logging in Basal Paleozoic Sandstone

Drilled : 1300' - 1497'

Total Footage for Week : 198'

Logs : Ran E-log (T.D. to 188')
Attempting to run Sonic log @ 8:00 a.m.

Reservoirs : Porosity is not developed in the basal Paleozoic section penetrated to date.
Below 1260' the grey microcrystalline dolomite grades to dark grey argillaceous dolomite containing vague relict skeletal texture. Interbedded dark grey to black dolomitic shale, slightly silty in part, and argillaceous dolomite comprises the basal 20' from 1300'-1320'.
Grey-white cryptocrystalline, tight dolomite, sandy in part with floating rounded, clear to frosted pink fine-medium quartz grains, interbedded with minor dolomitic sandstone and green sandy shale comprises the 60' section below 1320'. The light grey-white dolomite, sand; and light green shale sequence, possibly Ordovician in age, appears to lie unconformably below the dark grey micritic-skeletal dolomites.
Porosity is not developed in the Basal Paleozoic sands encountered at 1423'. The upper 8' consists of grey-white dolomitic sandstone, containing fine-coarse, rounded, frosted to clear quartz grains. Below 1430' the section consists of well cemented pink to light red sandstone grading to quartzite, with fine to coarse in part rounded quartz grains, minor weathered grey-green shale, grains and scattered kaolinite and pink feldspar. Patches of grey-green altered argillaceous matrix with minor mica development occur scattered throughout. The sands are well cemented with pink to clear silica, the cementation or solution effects, having partly obscured some of the grain boundaries.

Weekly Report #3

- : Minor light green to greenish white, silica cemented quartzitic sandstone occurs interbedded between (1465'-1475').

Scattered traces isolated porosity are developed, between 1450'-60', and appear to be solution cavities, resulting from leaching of kaolinite and/or weathered feldspar grains.

Remarks

- : The upper 60' of basal Paleozoics (Ordovician?) correlates with the section at Windflower; the latter having greater shale-evaporite content. The basement high area involving Lac Tache and Cartridge may provide the restriction in the southward basin, allowing the thick evaporite-shale sequence as encountered at Windflower. The basal Paleozoic sands appear to be correlative between Lac Tache and Cartridge.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
April 1960

Weekly Report #5

- : Minor light green to greenish white, silica cemented quartzitic sandstone occurs interbedded between (1465'-1475').

Scattered traces isolated porosity are developed, between 1450'-60', and appear to be solution cavities, resulting from leaching of kaolinite and/or weathered feldspar grains.

Remarks

- : The upper 60' of basal Paleozoics (Ordovician ?) correlates with the section at Windflower; the latter having greater shale-evaporite content. The basement high area involving Lac Tache and Cartridge may provide the restriction in the southward basin, allowing the thick evaporite-shale sequence as encountered at Windflower. The basal Paleozoic sands appear to be correlative between Lac Tache and Cartridge.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
April 1960

DMP LAC TACHE C-35 CO35 63° 50'; 120° 30'

Weekly Geological Well Report #6 for Week Ending April 5, 1960.

<u>F.T.D.</u>	:	1719' Bottomed in Basal Paleozoic Sandstone.
<u>Drilled</u>	:	1397' - 1719'
<u>Total Footage for Week</u>	:	320'
<u>Logs</u>	:	Ran Schlumberger Gamma Ray-Neutron Log " Sonic Log Running M.L.L. @ 8:00 a.m.
<u>Remarks</u>	:	A thick 294' section of Basal Paleozoic sandstone was penetrated during the past week with basement not reached at abandonment depth of 1719' K.F. Tight, silica cemented, fine to medium, rarely coarse grained, pink to red quartzitic sandstone comprises the basal clastic section. Variable red argillaceous and patchy white anhydritic matrix are scattered throughout, becoming predominant in the basal 100'. There is a marked thickening of the basal sandstone section at Lac Tache as compared with the section at Cartridge. Similarly the basal (Ordovician) section at Lac Tache is 120'+ thicker than that of Cartridge.

— F. Rayer —

Geologist

FR:rf
Dawson Creek
April 1960

DAILY MUD RECORD

WELL NAME: IMP LAC TACHE " C-35 LOCATION: C-35 63°50' - 120°30'

DATE	DEPTH	ADDITIONS			PROPERTIES			REMARKS & OPERATIONS
		GEL	CEMENT	GRM.	6000 GPM	SPENDING	AT	
FEB 24	150	3600						SP4 9100 AM FEB. 27/60
" 25	328						65	Drill 5 5/8" surface hole
" 26	335						65	Drill 5 5/8" hole, Reaming 6 5/8 to 9"
" 27	335						61	Reamed to 9", Reaming 9" to 9 1/4"
" 28	334						75	Reamed 7 7/8, stuck casing @ 25'
" 29	335						-	Reamed, stuck casing @ 145'
MARCH 1	357	2100					-	Reamed, stuck casing @ 187, cemented w/c, Drilled out, (Gypsum) Casing
" 2	461						-	Drill 5 5/8" - Dec dolomite. Casing.
" 3	521						40	Only dolomite & anhydrite
" 4	581				150		45	Testing dolomite, Drilling anhydrite
" 5	634				80		39	Tracked mud
" 6	705				50		41	Only 5 5/8" anhydrite
" 7	765						43	Only anhydrite
" 8	839						40	Drilling anhydrite
" 9	872				150		43	Drilling anhydrite
" 10	882					25	42	Casing, light dolomite
" 11	914						48	Casing dolomite, short Dolomite
" 12	936						11.6	Drill Dolomite w/o shaker
" 13	975						11.8	Testing w/ fluid mud = 100 PSI
" 14	997				50		12.4	Drill - no steel shaker
" 15	1036						12.4	Drill, Repair pump w/o shaker
" 16	1076				25		12.5	Only - Dolomite w/o shaker
" 17	1124						12.2	Only - Dolomite, w/o shaker
" 18	1143	1300					12.0	Only - Dolomite
" 19	1184						11.3	Twisted off 1875'. Dry new mud & pic
" 20	1219						11.4	Mixed new mud - Only Dolomite
" 21	1256				25		11.9	Twisted off 1875'. Only Dolomite
" 22	1300				150		11.6	Only - Dolomite
" 23	1336	300					11.9	Only - Dolomite, clean shale
" 24							11.5	Only - Sandy dolomite

DAILY MUD RECORD

WELL NAME: IMPERIAL LAC TACHE ° C-35 LOCATION: C-35 63°50' - 120°30'

DATE	DEPTH	ADDITIVES				PROPERTIES				REMARKS & COMMENTS
		GEL	CAUSTIC	STARCH	WATER	FRAS.	WT.	PH.	TEMP.	
MAR. 24	1374	300		100	50	10	11.6	41	-	July 24 - 11.6
" 25	1412	400		50	25	5	11.3	36	-	July 25 - 11.3
" 26	1444	-		-	-	10	11.4	41	-	July 26 - 11.4
" 27	1471	1300		-	-	10	11.6	44	-	July 27 - 11.6
" 28	1495	800		25	100	20	11.6	60	-	July 28 - 11.6
" 29	1494	1000		50	-	-	11.6	85	-	July 29 - 11.6
" 30	1529	-		-	-	-	11.7	60	-	July 30 - 11.7
" 31	1566	-		-	-	15	11.7	65	-	July 31 - 11.7
APRIL 1	1598	-		50	50	10	11.9	61	-	April 1 - 11.9
" 2	1624	-		-	-	10	11.6	55	-	April 2 - 11.6
" 3	1659	-		-	-	-	11.6	60	-	April 3 - 11.6
" 4	1702	-		-	-	-	11.3	62	-	April 4 - 11.3
" 5	1719(10)	200		150	50	25	11.3	110	-	April 5 - 11.3
" 6	1719	-		-	-	-	-	-	-	April 6 -
" 7	1719	-		-	-	-	-	-	-	April 7 -

BIT RECORD

WELL: MP. LAS TACHE "C-35" LOCATION: C-35 63°50'-120°30' CONTRACTOR: S. S. CO., RIG 170
DATE SPUDDED: FEB. 23, 1940 F.T.O.: 7719 F.T.O. REACHED: APRIL 1, 1940

NO.	SIZE	MAKE	TYPE	DEPTH IN (FEET OUT)	F.T.O.	WRS.	WEIGHT	R.F.M.	G.F.M.	SERIAL	FORMATION	REMARKS
1	5 7/8	HTC	OSC-3	0	30	7	TOTAL	80		47012	SURFACE CRUST	DULL
2	5 7/8	VAREL	V1	30	10	4	"	80		7303	GRAVEL & SAND	DULL
3	5 7/8	VAREL	V3	40	110	12 1/2	"	80		7306	GRAVEL & SAND	DULL
4	5 7/8	VAREL	V1	150	60	5 1/2	"	80		7310	GRAVEL & SAND	FAIR
5	5 7/8	VAREL	V3	210	118	6	"	80		7324	SHALE	DULL
6	7 7/8	HTC	OSC-3	REMOVED (0)	(10)	2	"	80		RR	REMOVED SURFACE FINE	DULL
7	9"	HTC	OSC-3	REMOVED (0)	(190)	13	"	80		29247	"	FAIR
8	9"	HTC	OSC-3	REMOVED (190)	(138)	14 1/2	"	80		29265	"	FAIR
9	9 7/8	HTC	OSC-3	REMOVED (0)	(335)	11	"	80		51663	"	FAIR
9 RR	9 7/8	HTC	OSC-3	REMOVED (0)	(335)	7	"	80		RR	"	DULL (RR)
9 RR	9 7/8	HTC	OSC-3	REMOVED (0)	(335)	9 1/2	"	80		RR	"	DULL (RR)
9 RR	9 7/8	HTC	OSC-3	REMOVED (0)	(335)	6 1/2	"	80		RR	"	DULL (RR)
10	5 7/8	VAREL	V3	835	15	2 3/4	2500	80	100	3751	Gypsum & shale	Good
10	4 3/4	Boyles	0	350	20	3 3/4	3000	65.75	100	68-59	Gypsum & shale	Good
11	5 7/8	VAREL	V3	370	20	4 1/2	3000	150	100	RR (3511)	Dolomite	Fair - Good
12	5 7/8	VAREL	V10	398	28	12	3500	90	100	3572	Dolomite	Good
13	5 7/8	VAREL	V3	462	64	8	5000	90	100	7276	Dolomite	Fair
14	5 7/8	VAREL	V3	515	53	15 1/2	5000	100	100	7270	Anhydrite	Loose Brgs
15	5 7/8	HTC	OSC	555	40	14 1/2	6000	110	100	59096	Anhydrite	Loose Brgs
16	5 7/8	HTC	OSC-3	594	39	16 3/4	6000	90	100	10060	Anhydrite	Loose Brgs
17	5 7/8	HTC	OSC-3	634	40	9 1/4	6000	110	100	8568	Anhydrite	Loose Brgs
18	5 7/8	HTC	OSC-3	677	43	15	6500	110	100	8590	Anhydrite	Loose Brgs
19	5 7/8	HTC	OSC-3	715	58	12 1/4	6500	150	100	59717	Anhydrite	Loose Brgs
20	5 7/8	HTC	OSC-3	755	40	12	6500	150	100	11537	Anhydrite	Loose Brgs
21	5 7/8	VAREL	V3	798	34	14 1/4	7000	150	100	7360	Anhydrite	Loose Brgs
22	5 7/8	HTC	OSC-3	832	21	7 1/2	8000	135	100	10061	Anhydrite	Loose Brgs
23	4 3/4	Boyles	0	853	19	4	8000	90	100	RR (357)	Dolomite	Good

BIT RECORD

#2

WELL: IMPERIAL LAC TACHE C-35 LOCATION: C-35- 63°50'-120°30' CONTRACTOR: S. DEER, JR. '90

DATE SPUDDED: FEB. 23, 1960 F.T.O.: 1719 F.T.O. REACHED: 1719

NO.	SIZE	MARK	TYPE	DEPTH IN	DEPTH FEET	F.T.G.	HRS.	WEIGHT	F.P.W.	G.P.M.	VENTAL	FORMATION	REMARKS
10	RR 5 7/8	VAREL	V3	853	872	19	4 1/2	8000	110	100	RE RUN	Dolomite	Room - DUNE
12	RR 5 7/8	VAREL	V2D	872	873	1	2 1/2	8000	110	100	RE RUN	Quartzite	Room - BALD
13	RR 4 3/4	BOULES	◇	873	881	8	4	8000	90	100	6957 RR	Quartzite & Dolomite	GOOD
23	5 5/8	HTC	W7R	881	897	16	10 1/2	6700	85	100	57621	Dolomite	Fair
24	5 5/8	HTC	OWS	897	929	32	17 3/4	6800	90	100	58576	Dolomite	DUNE - loose bry
25	5 5/8	HTC	OWS	929	936	7	3 3/4	6800	130	100	59599	Dolomite	Good (Purified)
26	5 5/8	HTC	OSC	936	945	27	14 3/4	5800	90	100	60389	Dolomite	DUNE
27	5 5/8	HTC	OSC	945	990	25	13 1/4	8000	100	100	59552	Dolomite	Fair - Dull bry
28	5 5/8	VAREL	V1	990	1018	25	16	8000	150	100	7208	Dolomite, F. Angled	Dull
25 RR	5 5/8	HTC	OWS	1018	1037	19	9	8000	100	100	RR	Dolomite, Muddy	Pure
29	5 5/8	HTC	OSC	1037	1072	35	16 1/2	8500	150	100	60049	Dolomite, Muddy	Pure (bry)
30	5 5/8	HTC	OSC	1072	1112	40	16	8500	150	100	59874	Dolomite, Muddy	Pure
31	5 5/8	VAREL	V1	1112	1126	14	6 1/2	15000	150	100	7116	Dolomite, Muddy	also pure down
32	5 5/8	HTC	OWS	1126	1141	35	18 1/2	10000	150	100	60287	Dolomite, Muddy	the w. turned off
33	5 5/8	HTC	OWS	1141	1190	29	16	10300	150	100	59512	Dolomite	Pure, loose bry
34	5 5/8	HTC	OWS	1190	1222	32	15 1/4	10500	150	100	59810	Dolomite	Loose bry
35	5 5/8	HTC	OWS	1222	1252	30	15 1/2	10900	150	100	59839	Dolomite	Pure
36	5 5/8	HTC	OWS	1252	1254	32	17 3/4	10000	150	100	59808	Dolomite	Pure
37	5 5/8	HTC	OWS	1254	1317	33	17	11000	150	100	59923	Dolomite	Large bry, Pure
38	5 5/8	HTC	OWS	1317	1336	19	9 3/4	11000	100	100	59916	Dolomite	Pure
39	5 5/8	HTC	OWS	1336	1362	26	14 3/4	13000	200	100	59920	Dolomite	Pure
40	5 5/8	HTC	OSC	1362	1395	33	18	13000	90	100	60045	Dolomite	Pure
41	5 5/8	HTC	OWS	1395	1430	37	14	13000	90	100	59909	Dolomite	Large bry, Pure
42	5 5/8	HTC	W7R	1430	1432	10	5 1/2	14000	140	100	56741	Dolomite	also pure bry
43	5 5/8	HTC	W7R	1432	1448	6	8	104900	60	120	75044	Dolomite	also pure bry
44	5 5/8	HTC	W7R	1448	1467	19	6	14000	140	100	57660	Dolomite	Pure
45	5 5/8	HTC	W7R	1467	1452	15	8	14000	70	100	39506	Dolomite	Pure
46	5 5/8	VAREL	V1	1482	1495	13	6 1/4	14000	50	100	7114	Dolomite	Pure

BIT R CORD

WELL: IMPERIAL

LOCATION: 2555 S 5th

CONTRACTOR: J. J. ...

DATE SPOOLED: FEB 23 1950

F.T.O.: 1719

F.T.O. REACHED: 1750

NO.	SIZE	WAL	TYPE	DEPTH IN (FEET)	F.T.O.	W.S.	HEIGHT	S.P.M.	S.P.M.	SERIAL	LOCATION	REMARKS
47	5 5/8	VAREX	V1	1495	2	1 1/2	14000	80	100	7311	Sandstone	Good
48	5 5/8	HTC	WVR	1497	18	7	13000	80	100	37911	Sandstone	Good
49	5 5/8	HTC	WVR	1515	16	3	14000	80	100	37913	Sandstone	Good
50	5 5/8	HTC	OWS	1531	1	8 1/4	13000	40	100	43104	Sandstone	Good
51	5 5/8	HTC	WVR	1547	11	10 1/4	13000	80	100	37909	Sandstone	Good
52	5 5/8	HTC	OWS	1564	17	6 1/4	13000	80	100	43146	Sandstone	Good
53	5 5/8	HTC	OWS	1583	1	5 1/4	13000	80	100	43115	Sandstone	Good
54	5 5/8	HTC	OWS	1593	1	5 1/4	13000	80	100	43106	Sandstone	Good
23	5 5/8	HTC	WVR	1601	24	16 1/4	13000	80	100	RR	Sandstone	Good
35	5 5/8	HTC	OWS	1608	5	4	14000	80	100	43107	Sandstone	Good
56	5 5/8	HTC	OWS	1618	25	9 1/2	14000	70	100	43110	Sandstone	Good
57	5 5/8	HTC	WVR	1635	21	11 3/4	13000	80	100	37504	Sandstone	Good
58	5 5/8	HTC	WVR	1654	33	14	13000	80	100	37500	Sandstone	Good
51	5 5/8	HTC	OWS	1711	25	9	14000	70	100	60272	Sandstone	Good

SURVEY

WELL NAME: IMP LAC TACHE C-35

LOCATION: C-37 63°50'-120°30'

[illegible]

PEACE RIVER DISTRICT

DST - 1

[illegible]

RESULTS... YAK... FOR... AND... RECOVERED... ±0... FRESH WATER...

..... (Midd. n. 4000-5000)

Well Depth... 5/5 Full Hole Size... 2 3/8 Drill Pipe: OM 2 Weight.....

Grade.....Joint Type.....Capacity.....

Rat Hole Top.....Rat Hole Size.....Drill Collars: 00 1/2 Feet/4.4.

Joint Type 2 1/2" Capacity.....

Size Top Choke 2 3/4.....Size Bottom Choke 3 1/4.....

Packer Type STANDARD WALL No. of Packers 1 Packer Size 4 3/4"

Bomb Type. ANERAPP No. of Bombs. 2 Bomb Ranges. 2400 2200

Position of Bombs... 504 (2200) 508 (2200) Hours on Clock... 6

Cushion: Type..... Air Chamber: Vol.....

Amount..... Length.....

Drilling Mud: Type CM-4... Weight —... Visc 39... W.L. —... NaCl —... Ph. 10...

Recovery Mud: Type..... Wt%..... Visc..... W.L..... NaCl..... Ph.....

Time	Duration
------	----------

Tester Started in hole 11.50.04 weight set on packer TOTAL lbs.

Tester on Bottom 1:00 PM March 2nd... (15000)

Packer Set 6.025 Mud level drop... *N/A* 120

Tool Open 1.15.. ..5. min.

Tool Closed 1:20.. 30 MIN. 151 Pulled packer loose with....lbs

Tool Open 150 (2.2) = 250 (2.2) 6.0 M.C. 2.2 (Plugged) 12000"

Tool Class: 2:50 PM - 3:35 PM

Tool Closed
Bulldog Backer (on)

Pulled Packer loose	7:20	.....
Started out of hole	8:25	.....

Started out of hole 7:22.....
Tester out of hole 3:50 AM

tester out of hole 3. 7. 7. 7.

FLOW AND RECOVERY DATA:

Time	Pressure	Riser	Mo. day	Time	Pressure	Riser	Mo. day
1				7			
2				8			
3				9			
4				10			
5				11			
6				12			

Liquid to Surface Mud, . . . mins. Oil, . . . mins. Water, . . . mins. Est. rate, . . .

TOTAL FLUID IN DRILL PIPE

(including water cushion) Type	Stands	Feet	ppm NaCl
1. <i>Heavy brine water</i>	<i>2.2</i>	<i>50</i>	<i>575</i>
2. <i>Free water</i>	<i>2.2</i>	<i>210</i>	<i>820</i>
3			
4			
5			
6			

Sampling Position Sample No. Position Salinity of water *820* ppm NaCl
 (Feet above packer) *1* *120-125*
2 *125-130*
3 *130-135*
 Gas (Sweet, Sour, etc.)

Samples sent for analysis to.....

FIELD PRESSURE DATA: (Check if blanked off)

Top Bomb () Bottom Bomb (✓)
 1st I.F.P. *225* 2nd I.F.P. *19* 1st I.F.P. *225* 2nd I.F.P. *19*
 1st F.F.P. *19* 2nd F.F.P. *22* 1st F.F.P. *19* 2nd F.F.P. *22*
 1st S.I.P. *22* 2nd S.I.P. *22* 1st S.I.P. *19* 2nd S.I.P. *22*
 B.H.T. *NA* or F.H.P. *6/9* B.H.T. *NA* or F.H.P. *6/9*

Do charts show normal operation.....

Was test satisfactory.....

Remarks (Explain misruns etc.) *1st I.F.P. 225, 2nd I.F.P. 19, 1st F.F.P. 19, 2nd F.F.P. 22, 1st S.I.P. 22, 2nd S.I.P. 22, B.H.T. NA, F.H.P. 6/9. 1st I.F.P. 225, 2nd I.F.P. 19, 1st F.F.P. 19, 2nd F.F.P. 22, 1st S.I.P. 22, 2nd S.I.P. 22, B.H.T. NA, F.H.P. 6/9. 1st I.F.P. 225, 2nd I.F.P. 19, 1st F.F.P. 19, 2nd F.F.P. 22, 1st S.I.P. 22, 2nd S.I.P. 22, B.H.T. NA, F.H.P. 6/9. 1st I.F.P. 225, 2nd I.F.P. 19, 1st F.F.P. 19, 2nd F.F.P. 22, 1st S.I.P. 22, 2nd S.I.P. 22, B.H.T. NA, F.H.P. 6/9.*

Test No. *1*Signature *Frank R. Smith*Testing Co. *EASTLAND TESTERS*Title *Geologist*Operator *H. BUCHAN*Well Name *IMP. LAC. TACHE #C-35*

T.G. EASTLAND — testers ltd.

44, 46 & 48 NORTH • EDMONTON, ALBERTA

SERVICE REPORT

TEST No. One
Date March 3/60
Ticket No. 4879

Well Name: IMPERIAL LAC TACHE C-35

LSD. C-35 63°50' 120°30'

Formation Tested: Limestone

TEST RESULT DATA

TYPE OF TEST: ☒ Standard ☐ Duals ☐ Straddle ☐ Casing

Started in Hole: 11:50 pm Tool Opened: 1:50 am

From: 515' To: 470' Tail Pipe: 45'

Initial Shut-in: 30 Min. Flow Period: 50 Min

Main Hole Depth: 515' Rat Hole Depth: _____

Final Shut-in: 45 Min. Out of Hole: _____

Hole Size Tested: 5 5/8" Main Hole _____ Rat Hole _____

Choke Bottom: _____

Casing Depth: _____ Size: _____ Weight: _____

Choke Surface: _____

Type of Drill Pipe: 2 7/8" IF Tubing: _____

Flow Rate _____ Mcl/day Flare Line Riser: _____

Type of Packer(s): Straight wall

Mcl/day measured by: _____

Size of Rubber Element(s): 4 1/2"

Fluid Cushion: _____ Max. Well Temp: _____ °F

REMARKS: Weak initial puff, dead in 1 minute
Open on 1/2" port. Plugged. Open on 3/4" for
45 minutes. Weak air blow.

DRUG. FLUID: Viscosity: _____ Weight: _____ W.L. _____

FIELD (est.) CORRECTED

245	Initial Hydrostatic Pressure psig	244
175	Shut-In Press. #1 After 30 Min. psig	189
70	Initial Flowing Pressure psig	189
175	Max. Flowing Pressure psig	189
175	Shut-In Press. #2 After 45 Min. psig	189

FLUID RECOVERY: 440 ft fresh water

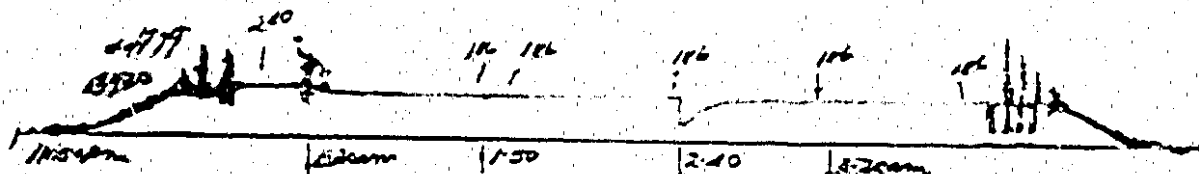
PRESENT DURING TEST

Your Representative Fred Moyer

Our Operator Harold Buchan

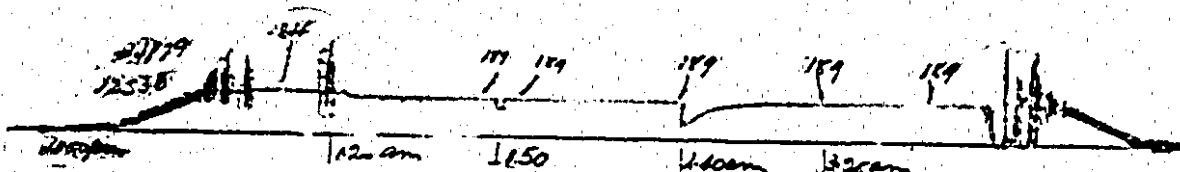
Toolpusher _____

Drig. Contractor Sedco



RECORDER No. 12530 ELEMENT RANGE: 0-2200 P.S.I. CLOCK SPEED: 6 HRS. RECORDER DEPTH: 508'

RECORDER No. 12538 ELEMENT RANGE: 0-2500 P.S.I. CLOCK SPEED: 6 HRS. RECORDER DEPTH: 514'



TIME

Form No. T-20

IMPERIAL OIL LIMITED

PEACE RIVER DISTRICT

DRILL STEM TEST REPORT

DST # 2

Well Name IMP. LAC. TACHE C-35 Formation Date MARCH 12/60

Location C-35 C3°50' 120°30' ... Interval tested from 865' to 936'

Basis for test (1) Fractured ... (2) ... (3) ... (4) ... (5) ... (6) ... (7) ... (8) ... (9) ... (10) ...

MVA (100 T. bbl) ... Traces micro-fine vuggy ... Porosity (875-936) ... Possible ...

Results W.P. ... Fair ... Good

SEC. 720 ... Fluid ... (300' Mud @ top, 300' muddy water, 120' Mud @ base) ...

TESTING DATA

Well Depth ... 236' ... Full Hole Size ... 5 5/8" ... Drill Pipe: 2 7/8" weight 8 10/16 ...

Grade ... Joint Type ... Capacity ...

Rat Hole Top ... Rat Hole Size ... Drill Collars: 2 3/4" Feet 120' ...

Joint Type ... Capacity ...

Size Top Choke ... 1/2" ... Size Bottom Choke ... 1/2" ...

Packer Type STRAIGHT ... WALL No. of Packers ... 1 ... Packer Size ... 1 3/4" ...

Bomb Type AMERADA ... No. of Bombs ... 2 ... Bomb Ranges ... 2200', 2600' ...

Position of Bombs ... 2200' (1' off bottom) ... 935' ... Hours on Clock ... 6 ...

Cushion: Type ... Air Chamber: Vol ...

Amount ... Length ...

Drilling Mud: Type ... Weight ... 11.6 ... Visc ... 50 ... W.L. ... NaCl ... Ph ... 2.5 ...

Recovery Mud: Type ... Weight ... Visc ... W.L. ... NaCl ... Ph ...

	Time	Duration	
Tester Started in hole	12:20 AM		Weight set on packer 8000 lbs.
Tester on Bottom	1:45		
Packer Set	1:50		Mud level drop ... <u>Nil</u> ... feet
Tool Open	1:55	5 Min	
Tool Closed	2:00	30 Min	
Tool Open	2:30	45 Min	Pulled packer loose with ... lbs.
Tool Closed	3:15	45 Min	
Pulled Packer loose	4:00		
Started out of hole	4:05		
Tester out of hole	4:00 AM		

FLOW AND RECOVERY DATA:

Time	Pressure	Riser	Met/day	Time	Pressure	Riser	Met/day
1				7	.....	.....	.....
2				8	.....	.....	.....
3				9	.....	.....	.....
4				10	.....	.....	.....
5				11	.....	.....	.....
6				12	.....	.....	.....

Liquid to Surface Mud.....mins, Oil.....mins, Water.....mins, Est. rate.....

TOTAL FLUID IN DRILL PIPE 720'

(including water cushion)	Type	Stands	Feet	ppm NaCl
1	Mud	15	300	.....
2	Muddy Water	15	300	4100 ppm
3	Mud	15	130	.....
4	.....	.....	.....	.....
5	.....	.....	.....	.....
6	.....	.....	.....	.....

Sampling Position Sample No. Position Salinity of water 4100 ppm NaCl
 (Feet above packer) Gravity of oil OAPI
 Gas (Sweet Sour)

Samples sent for analysis to.....

FIELD PRESSURE DATA: (Check if blanked off)

Top Bomb ()	Bottle bomb (✓)
1st I.F.P. 540.2..... 2nd I.F.P. 125.....	1st I.F.P. 540..... 2nd I.F.P. 70.....
1st F.F.P. NR..... 2nd F.F.P. 353.....	1st F.F.P. NR..... 2nd F.F.P. 350.....
1st S.I.P. NR..... 2nd S.I.P. 352.....	1st S.I.P. NR..... 2nd S.I.P. 350.....
1st S.I.P. NR..... F.H.P. 510.....	1st S.I.P. NR..... F.H.P.
B.H.T. 547M..... OF.	B.H.T. 547M..... OF.

Do charts show normal operation..... Was test satisfactory.....

Remarks (Explain misruns etc.) First flow gave WIP but did not bleed off on 1/2" choke, therefore 1st not recorded on chart (Tool not plugged)

2nd Flow - WIP, also could not get bleed off on 1/2" choke, Rotated to 1/2" &

Fair air blow, decreasing in 30 min.

NB Heavy Mud Weight may account, in part, for lost mud prior to test

Test No. 2 Signature 2nd Rayel

Testing Co. EASTLAND Title Geologist

Operator H. BUCHAN Well Name IMP. LAC. TACHE #035

T.G. EASTLAND — testers ltd.

R.R. 166 S. NORTH • EDMONTON, ALBERTA

SERVICE REPORT

TEST No. Two
Date Mar. 12/60
Ticket No. 4880

Well Name: IMPERIAL LAC TACHE C-35

LSD. 63° 50' 120° 30'

Formation Tested:

TYPE OF TEST: ☐ Standard ☐ Duals ☐ Straddle ☐ Casing

From: 865' To: 936' Tail Pipe: 71'

Main Hole Depth: 935' Rat Hole Depth:

Hole Size Tested: 5 5/8" Main Hole Rat Hole

Casing Depth: Size: Weight:

Type of Drill Pipe: 2 7/8" IF Tubing:

Type of Packer(s): Straight wall

Size of Rubber Element(s): 4 1/2"

REMARKS: Weak initial puff. Could not get bleed-off for initial shut-in. Fair air blow decreasing to dead in 30 minutes.

PRESENT DURING TEST

Your Representative Fred Royer

Our Operator Harold Buchan

Toolpusher

Drig. Contractor Sedco

TEST RESULT DATA

Started in Hole: 12:20 AM Tool Opened: 2:30 a.m.

Initial Shut-in: 30 Min. Flow Period: 45 Min

Final Shut-in: 45 Min. Out of Hole: 6:00 am

Choke Bottom: 1/2"

Choke Surface:

Flow Rate Mcf/day Flare Line Riser:

Mcf/day measured by:

Fluid Cushion: Max. Well Temp.: 60 (est)°F

DRILG. FLUID: Viscosity: .50 Weight: 11.8 W.L.

FIFLD (est.) CORRECTED

560 Initial Hydrostatic Pressure psig 545

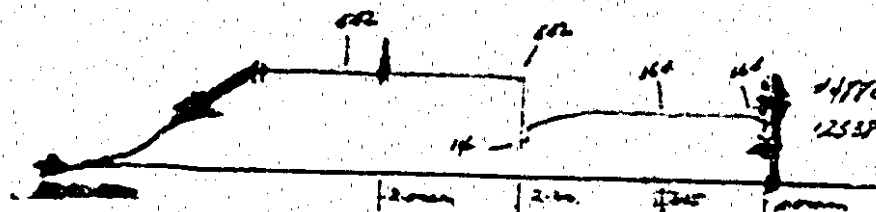
- Shut-In Press. #1 After 30 Min. psig 545

140 Initial Flowing Pressure psig 200

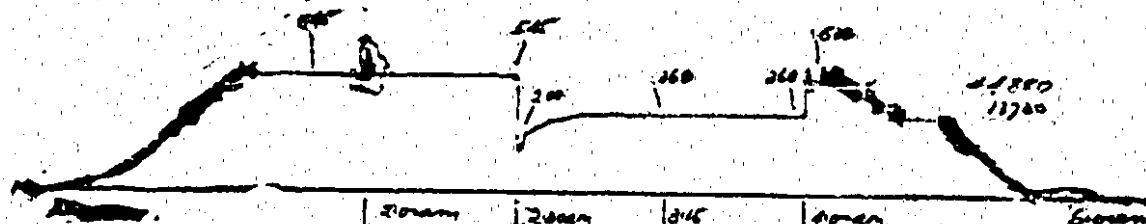
350 Max. Flowing Pressure psig 368

350 Shut-In Press. #2 After 45 Min. psig 368

FLUID RECOVERY: 725 ft. 300 ft mud, 300 ft water. 125 ft mud again



RECORDER No. 12538 ELEMENT RANGE: 0-2600 P.S.I. CLOCK SPEED: 6 HRS. RECORDER DEPTH: 929'
RECORDER No. 13730 ELEMENT RANGE: 0-2200 P.S.I. CLOCK SPEED: 6 HRS. RECORDER DEPTH: 935'



TIME

Form No. T-20

Total Contract Timehrs. Total Company Timehrs. Toolpusher R. H. [Signature] Approved by

Imp. Loc. Jacke 935 LSD. SEC. TWN. RGE. W. Contractor Saded Type Rig MAYHEW 7.000 Month APRIL Day 5 1966

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																				
DEPTH		From	To	Hole Made	Hole Size	Formation									DEPTH		From	To	Hole Made	Hole Size	Formation									DEPTH		From	To	Hole Made	Hole Size	Formation														
1719															1719															1719																				
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										DRILL COLLARS					COLLAR		DRILLING STRING										DRILL COLLARS					COLLAR		DRILLING STRING										DRILL COLLARS				
DATA																DATA																DATA																		
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE													
Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.																								
Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size																								
SURVEYS		Kind	at	Ft.	Deg. off										Kind		at	Ft.	Deg. off										Kind		at	Ft.	Deg. off																	
SLUSH 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													On Line		Circulating													On Line		Circulating																	
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 #1 RAN 25 SAX + 2 1/2 CALC																																											
							TO CEMENT INTERVAL 1719-1619																																											
							PLUG DOWN AT 12:30 PM																																											
							PLUG #2 RAN 25 SAX + 2 1/2 CALC																																											
							TO CEMENT INTERVAL 870-770																																											
							PLUG DOWN AT 2:30 PM																																											
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													
DETAIL OF OPERATIONS AND REMARKS		SCHLUMBERGER LOGGING																												W.O.C. 11:00 11:30 6 1/2																				
																														Felt plug #2 11:30																				
																														Pulled up on plug #3 11:15 3																				
																														Cementing 11:15 12:00 3																				
																														4																				
Driller		D. O'Callaghan														Driller																Driller		Jan. Burnett																

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher K. R. Novak

Approved by

C-TACHEE-35

LSD

SEC

TWN

RGE

W

Contractor

Seco

Type Rig

Mayhew 2000

Month

April

Day

4/1/19

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	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation																			
		1492	1702	14 1/4	14 1/4	Quartzite				1702	1717	15	5 5/8	Quartzite				1719	-	-	5 5/8	Quartzite																			
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.																		
		2 3/8		76	8 40	164.71				2 3/8		76	13' UP	164.74				2 3/8		76	13' UP	164.74																			
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		8			164.71	DRILLING STRING				COLLAR	8			164.74	DRILLING STRING				COLLAR	9			164.7	DRILLING STRING																	
DATA																																									
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
		59	OWS	4:10		3 1/2		14M	9		59	OWS	4:44		7		14M	27		59	OWS	4:44	5:15	7	17	14M	27														
Bit Serial No.		60292				Table R.P.M.				70	Bit Serial No.		60292				Table R.P.M.				80	Bit Serial No.		60292				Table R.P.M.				80									
Jet or Conventional -						Nozzle Size					Jet or Conventional -						Nozzle Size					Jet or Conventional -						Nozzle Size													
SURVEYS		Kind	at		Ft.		Deg. off			Kind	at		Ft.		Deg. off			Kind	at		Ft.		Deg. off																		
SLUSH 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	250	6	60	4 1/2		On Line		Circulating	350	6	65	4 1/2		On Line		Circulating	350	6	65	4 1/2																		
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																
		4:15	62	11.3							10:45	57	11.6			2 1/2 xox gel 3 xox starch 25 lbs preservative 25 lbs sporene				5:17	110				25 lbs sporene 25 lbs of plaster																
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																				
																Pipe tally measured out																									
DETAIL OF OPERATIONS AND REMARKS		From	To	Hrs.								From	To	Hrs.								From	To	Hrs.																	
		Running in with spear	12	3								Rig line + check B.O.P. O.K.	8:00	8:30	1/2								Condition mud	4:00	5:15	1 1/4															
		Pulling out																					Tripped log, measured out	5:15	7:15	2															
		Run back in with N.B.	3	4 00								Only	8:30	1:00	3 1/2								Logging	7:15	12:00	4 3/4															
		Drilling	4:00	8:00								Condition mud to log	1:00	4:00	3 1/2																										
Driller		D. O. Callaghan								Driller								O. Bock								Driller								Jan Burnett							

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.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USEREEL SERIAL No.
HOSE SERIAL No.DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY
YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

Type Rig MARYHEW 2000 Month APRIL Day 3 19 60

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

YES _____ NO _____

YES _____ NO _____

LAC TACHE LSD SEC TWN RGE W Contractor Sedco Type Rig 2000 Mayhew Month April Day 2 196

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.												
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation						
		1612	1624	12	5 7/8	Quartzite						1626	1638	14	5 7/8	Quartzite						1639	1651	13	5 7/8	Quartzite						
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.					
		2 7/8	7	71	5' up	185.40						2 7/8	80	11	185.40						2 7/8	73	18' up	185.40								
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		9			185.40	DRILLING STRING				COLLAR		9			185.40	DRILLING STRING				COLLAR		9			185.40	DRILLING STRING						
DATA										DATA										DATA												
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE	
		55	DWS	8:12	12:43	4	1613		5				56	DWS	2:11	12:12	4 1/2	1618	151'	25				57	W7R	5:45		6 1/4	13 M	13		
		56	DWS	2:43		5 1/4			11				57	W7R																		
		Bit Serial No. <u>(55) 43107</u> <u>(56) 43110</u> Table R.P.M. <u>70</u>										Bit Serial No. <u>(56) 43110</u> <u>(57) 37507</u> Table R.P.M. <u>80</u>										Bit Serial No. <u>37507</u> Table R.P.M. <u>80</u>										
		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										
SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off							
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size							
No. 1		On Line	Circulating						No. 1		On Line	Circulating						No. 1		On Line	Circulating											
No. 2									No. 2									No. 2														
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							
											10:15	60	11.5							10:15	60	11.6										
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.								
		DRILLING		12	12:45	3/4					D.L.G.		8	12:00						W/O Pump		4:00	4:30	1/2								
		BIT CHANGE		12:45	2:15	2					Trip for bit		12:20																			
		DRILLING		2:45	8	5 1/4					Put new power end in		12:40																			
											Service Rtg. Ch. B.P.P.																					

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 39

LAC TACHÉ SEC. TWN. RGE. W. Contractor Lelco Type Rig 2000 Month April Day 1 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.													
DEPTH		From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation											
		1598	1599	6	5 5/8	Quartzite				1598	1605	7	5 5/8	Quartzite				1605	1612	7	5 5/8	Quartzite											
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.										
		2 7/8		68	11' up	226.81				2 7/8		69	5' up	206.10				2 7/8		71	17' up	185.40											
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		11			226.81	DRILLING STRING				COLLAR	10			206.10	DRILLING STRING				COLLAR	9				DRILLING STRING									
DATA										15.350 20.200								DATA															
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						
		52	OWS	745	1241	584	1593		16		54	OWS	345	935	52	1601	1401	8		23	WTR	125	600	7		1401	7						
		54	OWS	345		414			5		55	OWS	845		314				4		55	OWS	845		314			4					
		Bit Serial No. 43146 43106 Table R.P.M.										Bit Serial No. 43106 43106 Table R.P.M. 70										Bit Serial No. 57621 43107 Table R.P.M. 86											
		Jet or Conventional - Nozzle Size										Jet or Conventional 73 57621 Nozzle Size										Jet or Conventional - Nozzle Size											
SURVEYS		Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off								
SLUSH 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							On Line		Circulating						On Line		Circulating													
No. 2				250	6	60	4 1/2							250	6	60	4 1/2							250	6	60	4 1/2						
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								
		230	61	11.9							10	57	11.4			10th Preservative.				10	55	11.6											
																Water																	
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.							From	To	Hrs.							From	To	Hrs.									
		DRILLING		12	1	1					DRILLING		8	430								DRILLING		400	600	2							
		Bit change		1	3:15	2 1/4					Trip for bit		910	1146								Trip for M/B		600	830	2 1/4							
		Work on pump		3:15	3:45	1/2					Ch Bob Service Rig		1145	1215								Run 10ft to bottom		830	845	1/4							
		DRILLING		3:45	8	4 1/4					DRILLING		1215	400								DRILLING		845	1200	3 1/4							
Driller		E. Riecke								Driller								D. O'Callaghan								Driller							

HEADING UP & DRIG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Timehrs. Total Company Timehrs. Toolpusher R. J. Horvath Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Grapher Jack C-35 LSD SEC TWN RGE W Contractor Sales Type Rig 2000 mayhaw Month March Day 31 19-60

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.												
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation								
		1553	1566	13	5 5/8	Quartz						1579	1579	13	5 5/8	Quartz						1579	1592	13	5 5/8	Quartzite						
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.							
		2 7/8		67	3'	226.81							67	94'	226.81								68	17'4"	226.81							
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		11			226.81	DRILLING STRING				COLLAR		11			226.81	DRILLING STRING				COLLAR		11			226.81	DRILLING STRING						
DATA										DATA										DATA												
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE			
		51	WTR	930		9 3/4			19				61	WTR	970	530	10 1/2	1566	13 M	19				52	OWS	11 AM	530	642	1583	13 M	17	
													62	OWS	1057 AM					13				53	OWS	755 PM		444	13 M	139		
		Bit Serial No. 37809 Table R.P.M. 80										Bit Serial No. (50) 37809 (52) 47146 Table R.P.M. 80										Bit Serial No. 43146 43115 Table R.P.M. 80										
		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off	
SLUSH 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	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					On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating				
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		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	
		7:30	65	11.7							11:00	65	11.5			10# Preservating.																
											2:00	57	11.3			1 bag Plaster																
																50# Sodash.																
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
		DRILLING		12	3:30	3 1/2			From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
		Work on drill motor		3:30	4:15	3/4			From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
		DRILLING		4:15	8	3 3/4			From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							
									From		To	Hrs.			From		To	Hrs.					From	To	Hrs.							

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

37

Location 6-35 LSD..... SEC..... TWN..... RGE..... W..... Contractor Seder Type Rig 2000 Mayhem Month March Day 3 1966

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation												
		1515	1529	14	5 7/8	Quartz				1529		1542	14 1/2	5 7/8	Quartz				1542		1553	11	5 7/8	Quartzite												
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.											
		27 1/2		65	2' up	226.81				27 1/2			66		226.81				27 1/2			67	17' up	226.81												
		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	11			226.81	DRILLING STRING			COLLAR		11			226.81	DRILLING STRING			COLLAR		11			226.81	DRILLING STRING											
		DATA								DATA									DATA																	
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							
		49	WTR	2:00		6			14		49		WTR	2:55 PM	9:05 AM	9	1521	13 M	16	40		50		WTR	12:20	7:15	13 M	16	6							
		50	OWS	12:10 PM		3 1/2			12		50		OWS	12:10 PM		3 1/2			12		51		WTR	9:30		2 1/2			6							
		Bit Serial No. 37813 Table R.P.M. 80										Bit Serial No. 49 WTR 77513 Table R.P.M. 90										Bit Serial No. 45104 37809 Table R.P.M. 80														
		Jet or Conventional - Nozzle Size										Jet or Conventional (50) OWS 43104 Nozzle Size										Jet or Conventional - Nozzle Size														
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off					
SLUSH 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		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		HOURS						
		On Line	Circulating	250	6	60	4 1/2				On Line	Circulating	300	6	60	4 1/2				On Line	Circulating	350	6	65	4 1/2											
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		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
		7:00	60	11.7			Water		4:00		60	11.7			15# Preservative 1 bag plaster 1 soda ash		6:00		53	11.3					11:00		55	11.4								
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.			
		Bit change		12	2	2	Drilling		8	9	1	Drilling		40	40	4 1/2	W/O Pump		40	40	4 1/2	Drilling		5	5	5	Trip for N.B.		7 1/2	7 1/2	2 1/4	Drilling		9 30	12 00	2 1/2
		Drilling		2	8	6	Service Rig		9	12 30	3	Drilling		12 30	12 30	3 1/2	Drilling		5 15	7 15	2	Drilling		7 15	9 30	2 1/4	Drilling		9 30	12 00	2 1/2	Drilling		9 30	12 00	2 1/2
Driller		E. Riche										N. O. Callaghan										D. Boek														

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.:

MNFR. DRILLING LINE IN USE
MNF. OF KELLY HOSE IN USE

REEL SERIAL No.
HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY?
YES ☒ NO ☐

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Jan B. Smith

Approved by

Total Contract Timehrs. Total Company Timehrs. Toolpusher [Signature] Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Imp. Inc. 333 SD SEC. TWN. RGE. W. Contractor Sedco Type Rig 2000 Maxham Month March Day 28 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																									
DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation																																			
1495					5 7/8																				1495		1497	2	5 7/8	Quartzite																																			
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										DRILL COLLARS										COLLAR		DRILLING STRING										DRILL COLLARS										COLLAR		DRILLING STRING										DRILL COLLARS									
DATA																						DATA																						DATA																					
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																		
									Drilled	Reamed										Drilled	Reamed									Drilled	Reamed																																		
Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.																																							
Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size																																							
SURVEYS		Kind	at	Ft.	Deg. off								Kind		at	Ft.	Deg. off								Kind		at	Ft.	Deg. off																																				
SLUSH 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										On Line		Circulating										On Line		Circulating																																						
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																																		
			60				800# gel.																																																										

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LAC-TACHE C-35
 LSD..... SEC..... TWN..... RGE..... W..... Contractor Sides Drilling Type Rig Hydramat 2000 Month March Day 26 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.											
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation					
		1439	1444	5	5 5/8	GRANITE						1444	1448	4	5 5/8	Quartzite						1448	1452	21'	5 5/8	Quartzite					
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.				
		2 3/8	60	9' UP		247.44	—					2 7/8	60	8		247.44	—					1 3/4	61	12' UP		247.44	—				
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		
		42	WTR	6:25	12:5	6:34	1444	10M	8	20			43	WTR	4 AM		7	1448	14M	8				44	WTR	10:40			14M	21	14:00
		43	WTR	4 AM		4		10M	21	12																					
		Bit Serial No. (42) 56749 (43) 74344 Table R.P.M. 60								Bit Serial No. 74344 Table R.P.M. 130								Bit Serial No. (44) 57660 Table R.P.M. 140													
		Jet or Conventional - Nozzle Size								Jet or Conventional - Nozzle Size								Jet or Conventional - Nozzle Size													
SURVEYS		Kind <u>Survey</u> at <u>1430</u> Ft. <u>2°</u> Deg. off								Kind <u>at</u> Ft. <u></u> Deg. off								Kind <u>at</u> Ft. <u></u> Deg. off													
SLUSH 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												
		On Line	Circulating																												
				200	6	60	4 1/2									300	6	70	4 1/2												
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						
		5 AM	41	11.4		9.0						230	57	11.3			1300# gel					11:55	41	11.4			water				
																										10/lbs preservative					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			From		To	Hrs.			From		To	Hrs.													
		Drilling		12:00	12:15	1/4			Drilling		11	11	3			Logging		4:00	9:30	5 1/2											
		Survey		12:15	1:00	3/4			Condition mud		11	2:30	3 1/2			Ran back to bottom.		9:00	10:30	1 1/2											
		Trip for N/B		1:00	3:30	2 1/2			Pull out to log-measure string		2:30	4	1 1/2			with new bit Reamed		10:30	12:00												
		Ran to bottom 12 ft		3:30	4:00	1/2										140'															
		Drilling		4:00	9:00	4										D.Lg															
		Driller							Driller							Driller															

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher Jan Burnett Approved by

LAC-TACHE C-35

SEC.

TWN.

RGE.

W.

Contractor

SEACO DRLG

Type Rig

MAYHEW 2000

Month

MARCH

Day

25 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.													
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation							
		1395	1412	17	5 7/8	DOLOMITE						1412	1432	20	5 7/8	DOLOMITE						1432	1439	7	5 3/8	DOLOMITE							
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.				
		2 7/8		57	1.42' UP	268.12	—						2 7/8		58	1' UP	268.12	—						2 3/4		60	14' 4"	247.411	—				
BIT RECORD		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	13			268.12	DRILLING STRING				COLLAR		13			268.12	DRILLING STRING				COLLAR		12			247.411	DRILLING STRING						
		DATA									DATA										DATA												
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				
		41	DWS	1.50 AM		6.4		13 M	17		41		DWS	1.50 AM		14	1432		37		42		WTR	6.25		5.2		14 M	7	20'			
		Bit Serial No. 59809					Table R.P.M. 90					Bit Serial No. 59809					Table R.P.M. 140					Bit Serial No. ① WTR 56749					Table R.P.M. 140						
		Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size						
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		
SLUSH 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		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					
		On Line	Circulating						On Line		Circulating						On Line		Circulating						On Line		Circulating						
				300	6	85	4 1/2						300	6		4 1/2						300	6		4 1/2								
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		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
		4 AM	41	11.3		8.0			12:00		40	11.3		8.5	10 th Preservative		6:00		40	11.3					10:00		41	11.3					
		8:00	36	11.3		8.5																											
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.			From		To	Hrs.			From		To	Hrs.			From		To	Hrs.										
		Firmly Pulling out & Run in w/ 2 1/2 B lay down 3 drill collars		12:00	1:45	1 3/4			Drilling		8	4	8			Tripping for bit		4	6:30	2 1/2													
		Only		1:45	8:00	6 1/4																											
Driller		O. Bock						Driller		E. Riske								Driller		D. O'Callaghan													

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 FOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USEREEL SERIAL No.
HOSE SERIAL No.DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY
YES NO

Total Contract Time

Total Company Time

Toolpusher

G. J. Smith

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LAC-TACHE C-35
 LSD SEC TWN RGE W Contractor Leeco Drilling Type Rig Mayhew 2000 Month March Day 24 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																			
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation													
		1361	1374	13	5 5/8	DOLOMITE						1374	1384	10	5 5/8	DOLOMITE						1384	1395	11	5 5/8	DOLOMITE													
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.												
		27 1/2		51	2' UP	328.71	-					27 1/2		52	13' UP	328.71	-					27 1/2		52	2' UP	328.71	-												
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			328.71	DRILLING STRING				COLLAR		16			328.71	DRILLING STRING				COLLAR		16			328.71	DRILLING STRING													
DATA										DATA		13.500								DATA		13500 6400																	
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE								
		39	OWS	9 AM	12:10	14 3/4	13.62	13 M	26				40	O.S.C.	2:15		11 1/2	13 M	22						40	O.S.C.	2:15	10:30	14	13.95	13 M	32							
		40	O.S.C.	2:15		5 3/4		13 M	12																														
Bit Serial No.		39 59950 40 60045								Table R.P.M.		90								Bit Serial No.		60045								Table R.P.M.		90							
Jet or Conventional		-								Nozzle Size		-								Jet or Conventional		-								Nozzle Size		-							
SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off					
SLUSH 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		290	6	90	4 1/2	No. 2		On Line	Circulating		250	6	80	4 1/2	No. 2		On Line	Circulating		300	80	90	4 1/2	No. 2		On Line	Circulating									
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										
													10:15	45	11.8			400# gel.																					
													3:30	40	11.1			50# starch						4:00	40	11.1													
																		25# plaster						8:00	40	11.1													
																		5# preservative																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.														
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.																						
		Only		12:00	12:15	1/4	Drilling		8		12:15	4 1/4	Only		4:00	10:30	6 1/2																						
		trip for N.B.		12:15	2:15	2	Repair pumps		12:15		1:30	1 1/4	Topping N.B.		10:30	11:30	1 hr																						
		Only		2:15	8:00	5 3/4	Condition mud		1:30		2:30	1	Work on Drill motor		11:30	12:00	1/2																						
							Drilling		2:30		4	1 1/2																											
Driller		O. Bock								Driller		E. Ruske								Driller		J. J. Callahan																	

CLASSES OF TIME BREAKDOWN
 HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CTG.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LAC. TACHE C-35

LSD..... SEC..... TWN..... RGE..... W.....

Contractor

Sedco Drilling

Type Rig

Magnum 2000

Month

March

Day

23 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation																			
		1324	1336	12	5 5/8	DOLOMITE				1336	1346	10	5 5/8	DOLOMITE				1346	1361	15	5 5/8	DOLOMITE																			
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.																		
		2 7/8		1 1/2	1' UP	328.71				2 7/8		50	11' UP	328.71				2 7/8		51	16' UP	328.71																			
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				DRILLING STRING				COLLAR	16				DRILLING STRING				COLLAR	16				DRILLING STRING																	
DATA										DATA									DATA																						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed																
		38	OWS	9 P.M.		9 3/4		13 M	19	39	OWS	9 00		6 1/4				39	OWS	9 00		14 1/4		13 1/4	25																
SURVEYS		Kind at Ft. Deg. off								Kind at Ft. Deg. off								Kind at Ft. Deg. off																							
SLUSH 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																		
				200	6	72	4 1/2					225	6	75	4 1/2					275	6	85	4 1/2																		
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																
		1 P.M.	40	11.5		8.0					10 30	40	11.8		8	300# gel 100# starch 50# Plaster 10# Preservative				630	42	11.4		8.0																	
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																
DETAIL OF OPERATIONS AND REMARKS		Drilling Pull out for N.B.								RAN in hole Drilling Conditioning mud Drilling								Only																							
		12 00 6 45 6 3/4								8 9 1 9 2 15 5 1/4 2 15 3 3/4 3 4 1								4 00 12 00 8																							
Driller		O. Boek								Driller								E. Riche								Driller								Jann Burnett							

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:CLASSES OF TIME BREAKDOWN
TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USEREEL SERIAL No.
HOSE SERIAL No.DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY
YES NO

Total Contract Time.....hrs.

Total Company Time.....hrs.

Toolpusher

R. H. VANCE

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LAC- TACHEC-35 LSD..... SEC..... TWN..... RGE..... W..... Contractor Sedco Drilling Type Rig Mayhew 2000 Month March Day 22 19-60

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation																			
		1284	1300	16	5 5/8	Dolomite				1300	1311	11	5 7/8	Dolomite				1311	1324	13	5 5/8	Dolomite																			
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.																		
		2 7/8		56	17' up	184.24				2 7/8		56	16' up	184.24				2 7/8		57		328.91																			
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		9			184.24	DRILLING STRING				COLLAR	9			184.24	DRILLING STRING				COLLAR	16			328.91	DRILLING STRING																	
DATA										DATA									DATA																						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
		37	OWS	12:00		8		10 m	16		37	OWS	12:00		15		11	27		37	OWS	12:00		17	1317	18	33														
		Bit Serial No. 59763 Table R.P.M. 150								Bit Serial No. 59763 Table R.P.M. 150								Bit Serial No. (37) 59763 (38) Table R.P.M. 145																							
		Jet or Conventional - Nozzle Size								Jet or Conventional - Nozzle Size								Jet or Conventional - 59916 Nozzle Size																							
SURVEYS		Kind	at	Ft.	Deg. off				Kind	at	Ft.	Deg. off				Kind	at	Ft.	Deg. off																						
SLUSH 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	250	6	72	4 1/2	On Line		Circulating	200	6	80	4 1/2	On Line		Circulating	250	6	80	4 1/2																				
No. 2								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																
		6:00	40	11.9		8.0					8:30	40	11.8		8	300# gel					9:00	43	11.6		8.0																
											2:15	43	11.5		8	6" perservative																									
																50# starch																									
																25# plaster																									
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			From	To	Hrs.			From	To	Hrs.			From	To	Hrs.																				
		Drilling		12:00	8:00	8			Drilling		8	12:20	4:20			Drilling		4:00	6:30	2 1/2																					
		Conditioning mud							Conditioning mud		12:30	1:15	.55			Tripping NB		6:30	9:00	2 1/2																					
		Drilling							Drilling		1:15	4	2 3/4			Drilling		9:00	12:00	3																					
Driller		O. Book								Driller								E. Riehl								Driller								Jan. Burnett							

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Time hrs. Total Company Time hrs. Toolpusher R. H. House Approved by

LAC-TACHE C-35

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

 LSD..... SEC..... TWN..... RGE..... W..... Contractor *Leake Drilling* Type Rig *Mayhew 2000* Month *March* Day *21* 1960

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	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	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																																																	
	1244	1256	12	5 5/8	DOLomite	1256	1275	19	5 5/8	Dolomite	1275	1284	9	5 5/8	Dolomite																																																	
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.																																														
	2 7/8		53	3' up	184.24		9 7/8		54	3' up	184.24		2 7/8		55	14' up	184.24																																															
	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	9			184.24	DRILLING STRING	DRILL COLLARS	COLLAR	9			184.24	DRILLING STRING	DRILL COLLARS	COLLAR	9			184.24	DRILLING STRING	DRILL COLLARS																																											
BIT RECORD	DATA					10,080					DATA					11,100					3000					DATA					11,250					3000																												
	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																						
	35	OWS	1230	415	15 1/2	1252	10 M	30		36	OWS	615	924	14 1/2	1284	11 M	31		37	"	1130	900	14 1/2	1284	11 M	31																																						
	Bit Serial No.	59839				Table R.P.M.		150		Bit Serial No.	59839				Table R.P.M.		150		Bit Serial No.	8659839				Table R.P.M.		150		Bit Serial No.	8659839				Table R.P.M.		150																													
SURVEYS	Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size																												
	Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off																														
	SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																													
	No. 1	On Line	Circulating					No. 1	On Line	Circulating					No. 1	On Line	Circulating					No. 1	On Line	Circulating					No. 1	On Line	Circulating																																	
No. 2			250	6	72	4 1/2	No. 2			250	6	90	4 1/2	No. 2			250	6	95	4 1/2	No. 2			250	6	95	4 1/2	No. 2			250	6	95	4 1/2																														
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																																						
	2 AM	37	11.4		8.0						8 AM	40	11.6		8	10 lbs caustic					430	38	11.5		8.5	100 lbs Soda Ash																																						
	7 AM	34	11.6		8.0						1030	41	11.7		8	50 lbs soda ash					830	34	11.5		8.5	10 " cyran																																						
											1200	40	11.6		8																																																	
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																		
DETAIL OF OPERATIONS AND REMARKS	From					To					Hrs.					From					To					Hrs.					From					To					Hrs.																							
	Only					1200					415					4 1/4					DRILLING					800					915					1 1/4					Only					400					1100					5								
	Trip for N.B.					415					615					2					Rig SERVICE + CHECK BOP					915					945					1/2					Trip N.B.					900					1130					2 1/2								
	Only					615					800					1 3/4					DRILLING					945					400					6 1/4					w/o Shale Shatter					1130					1200					5								
Driller: <i>O. Buck</i>																				Driller: <i>E. Rake</i>																									Driller: <i>Jan. Burnett</i>																			

 HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

DAILY DRILLING REPORT

LAC - TACHE

SEC..... TWN..... RGE..... W.....

Contractor Linda D. R. O.

Type Rig Maxwell 2000 Month March Day 20 1911

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.		YES	NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher LUKAS

Approved by _____

**DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY**

YES NO

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Lac Tache C 35 LSD SEC TWN RGE W Contractor SEDCO Type Rig 2000 Mayhem Month March Day 19 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation															
		1170	1184	14	5 5/8	Dolomite						1184	1190	6	5 5/8	DOLOMITE						1190	1204	14	5 5/8	DOLomite															
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.														
		2 3/4		50	18 UP	186.76						2 3/4		49	12' UP	186.76						2 3/4		57	17' UP	186.76															
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE												
		33	OWS	7:30		12 1/2		10,500	23				33	OWS	7:30	12 00	16		10M	29				34	OWS	5:38		5 1/2		10M	14										
SURVEYS		Kind at Ft. Deg. off								Kind at Ft. Deg. off								Kind at Ft. Deg. off																							
SLUSH 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																		
		On Line	Circulating							On Line		Circulating						On Line		Circulating																					
				325	6	95	4 1/2							200	6	80	4 1/2							200	250	6	80	4 1/2													
MUD RECORD		Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS			Time		Visc.	Wt.	WL	pH	ADDITIVES — POUNDS			Time		Visc.	Wt.	WL	pH	ADDITIVES — POUNDS																
		2:00	40	11.3		8.5															6:30	42	11.6		8	10 lbs caustic															
		5:30	41	11.3		8.5						11:00	43	11.5		8.0						9:30	38	11.4		8	25 lbs Soda Ash														
		7:30	43	11.4		8.0															11:30	40	11.5		8	25 lbs plaster															
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																
DETAIL OF OPERATIONS AND REMARKS		Rig								Rig								Rig																							
		12:00 8:00 8								Rig in & check B.O.P. OK 8:00 8:30 4 1/2								BREAK SUB. OFF DRILL 4 5:30 1 1/2																							
										Only 8:30 12:00 3 1/2								COLLAR + RAN IN HOLE 5:30 12 6 1/2																							
										Trip out bit sub twist off																															
										Run in w/ spear pullout																															
										with fish recovered. 12:00 4:00 4																															
Driller		Jan Burnett								Driller								O. Bork								Driller								L. Hinkle							

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:

MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher R. H. Kovacs

Approved by

IMPERIAL OIL LIMITED

2000 MAYHEW DAILY DRILLING REPORT

LSD..... SEC..... TWN..... RGE..... W..... Contractor..... Type Rig..... Month..... Day 18 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.												
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation						
		1124	1143	15	5 3/8	Dolomite						1143	1159	1165	5 3/8	DOLomite						1159	1170	11	5 3/8	Dolomite						
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.					
		2 3/8		48	19'0"	186.76						2 7/8		48	3'0"	186.76						2 7/8		49		186.76						
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		9			186.76	DRILLING STRING				COLLAR		9			186.76	DRILLING STRING				COLLAR		9			186.76	DRILLING STRING						
DATA		10,000				3,000				DATA		10,000				3,000				DATA		10,000				3,000						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
		32	OWS	10:55		10		10,000	17				32	OWS			10		10M	38				32	OWS	10:55	4:50	18 1/2		10M	35	160
		Bit Serial No. 32-60287				Table R.P.M. 150						Bit Serial No. 60287				Table R.P.M. 150						Bit Serial No. 32-60287				Table R.P.M. 150						
		Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size						
SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off							
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
		On Line	Circulating	325	6	90	4 1/2																									
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							
		12:30	38	11.2		8.0	1 sac plaster									WATER				7:30	38	11.2		8	1 SK Plaster							
		4:30	43	11.3		8.0	ken mago gel				9:00	40	11.5		8.0					12:40	40	11.3		8								
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.															
		Drly		12:00	8:00	8			Rig Ser + check B.O.P. O.K		8:00	8:30	1/2			DRILLING		4	5	1												
									Drly		8:30	4:00	7 1/2			BIT CHANGE		5	7	2												
																DRILLING		2	7	8												
																RIG SERVICE		7:00	7:30	1/2												
																CHECK B.O.P.																
																DRILLING		7:30	12	4 1/2												
Driller		Jan Burnett				Driller		O. Back				Driller		E. Riebel																		

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ☒ NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC:

Total Contract Timehrs. Total Company Timehrs. Toolpusher R. J. K... Approved by

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

Total Contract Timehrs. Total Company Timehrs. Toolpusher R. H. O. O. O. Approved by:

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Lac-Tache LSD..... SEC..... TWN..... RGE..... W..... Contractor SEDCO Type Rig 2000 mayhaw Month March Day 15 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.												
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation								
		1019	1036	16	5 5/8	Dolomite						1036	1047	11	5 5/8	DOLomite						1047	1064	17	5 5/8	Dolomite						
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.					
		2 3/8		42	30P	145.44							2 7/8		H4	14' up	145.44							2 7/8		45	15' up	145.44				
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		7			145.44	DRILLING STRING				DRILL COLLARS				COLLAR		7			145.44	DRILLING STRING				DRILL COLLARS								
DATA		8500								DATA		8500								DATA		8500										
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
		25	OWS	11:22		12 1/4		8500					25	OWS	11:23	8:30	12 3/4	1037		26					29	OWS	11:00		12		28	
Bit Serial No.		59599 - re-run				Table R.P.M. 150				Bit Serial No.		59599 - re-run				Table R.P.M. 100				Bit Serial No.		60049				Table R.P.M. 150						
Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size						
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off									
SLUSH 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					On Line		Circulating				On Line		Circulating																
No. 2				300	6	90	4 1/2					250	6	80	4 1/2																	
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									
		130	47	12.5		10.5	25 lbs Soda ash																									
		530	48			10.5					1200	53	12.5		10	WATER				4 PM	48	12.4		10	WATER							
																				10 PM	47	12.2		9.5								
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.			From		To	Hrs.			From		To	Hrs.															
		Drlg		1200	800	8			Rig Ser + check BOP		800	830	1/2			DRILLING		4	7 15	3 1/4												
									trip for N/B		830	1100	2 1/2			Rig Service - check BOP		7 15	8 15	1												
									Drlg		1100	400	5			Drilling		8 15	12	3 1/4												
Driller		Jan Burnett								Driller		O. Back								Driller		E. Rucke										

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING/CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK/BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher H. K. Kowen

Approved by

LAC TACHE C 35

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

SEC.

TWN.

RGE.

W.

Contractor SEDCO

Type Rig 2000 MAYHEW Month MARCH Day 14 1960

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

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

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

DEPTH	From	To	Hole Made	Hole Size	Formation	
	992	997	5	5 3/4	Dolomite	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	2 3/4		40	200	166.07	
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
	COLLAR	8			166.07	DRILLING STRING	DRILL COLLARS
	DATA					

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Drilled	Reamed
	28	V1	745		3 1/4		8000	5	100
Bit Serial No.	(28) 7208								
Table R.P.M.	100								
Jet or Conventional									
Nozzle Size									

SURVEYS SLUSH PUMP RECORD No. 1 No. 2	Kind _____ at _____ Ft. _____				Nozzle Size _____ Deg. off _____	
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	On Line	Circulating				
				300	6	87	6

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	500	42	12.4		11	

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

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
Assembling power end	1200	300	3
Tripping in, reamed 100 ft	300	445	1 3/4
Drilling	445	800	3 1/4

2nd Tour From: 8:00 a.m. To: 4:00 p.m.						
From	To	Hole Made	Hole Size	Formation		
997	1008	#11	5 5/8	Dolomite		
Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	
2 7/8		41	13' UP	166.07	—	
DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	8			166.07	DRILLING STRING + DRILL COLLAR	

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Drilled	Reamed
	28	V1	745		10 3/4			16	
Bit Serial No.	5208								
Table R.P.M.	150								
Jet or Conventional									
Nozzle Size									

Jet or Conventional -			Nozzle Size			
Kind at Ft.			Deg. off			
HOURS			Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating					
			200	6	80	4 1/2

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	300	41	12.4		11	

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

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
Rig line check BOP O.K.	800	830	1/2
Drilling	830	450	1 1/2

3rd Tour From: 4:00 p.m. To: 12:00 p.m.					
From	To	Hole Made	Hole Size	Formation	
1008	1019	11	5 7/8	Dolomite	
Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
2 7/8		42	93' up	166.07	
DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	Drilled	Reamed
	28	V1	745		16			28	
Bit Serial No.	7208								
Table R.P.M.	59.599								
Jet or Conventional									
Nozzle Size									

Bit Serial No. (25) 7208		(25) 57599		Table R.P.M.	
Jet or Conventional -				Nozzle Size	
Kind		at		Ft.	
				Deg. off	
HOURS					
On Line		Circulating		Pump Press	Length of Pump Stroke
				Strokes Per Min.	Liner Size

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	735	47	12.6		11	
	1130	47	12.5		10.5	

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

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
DRILLING	4	9:15	5 1/4
Bit change	9:15	11:22	2 7/8
Drilling	11:22	12:00	3/4



Driller: Jan Burnett

Driller: O. Beck

Driller: E. Riche

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

MNFR. DRILLING LINE IN USE

REEL SERIAL No.

MNFR. OF KELLY HOSE IN USE

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

R. H. Horvath

Approved by

.....

LAC TACHE C 35

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LSD..... SEC..... TWN..... RGE..... W.....

Contractor SEDCO

Type Rig MAYHEW 2000 Month MARCH Day 12 1960

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

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

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

DEPTH	From	To	Hole Made	Hole Size	Formation
936	936	0	5 7/8		

DEPTH	From	To	Hole Made	Hole Size	Formation
936	953	17	5 7/8		Dolomite

DEPTH	From	To	Hole Made	Hole Size	Formation
953	965	12	5 7/8		Dolomite

DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
27 1/2					166.07	

DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
27 1/2			34		166.07	

DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
27 1/2			39		166.07	

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed
26	OSC	7 1/2			14			

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed
26	OSC	7 1/2			8		5800	17

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed
26	OSC	7 1/2			14 3/4		965	29

Bit Serial No.	Table R.P.M.
26 60389	90

Bit Serial No.	Table R.P.M.
26 60389	90

Bit Serial No.	Table R.P.M.
26 60389	90

SURVEYS	Kind	at	Ft.	Deg. off

SURVEYS	Kind	at	Ft.	Deg. off

SURVEYS	Kind	at	Ft.	Deg. off

SLUSH PUMP RECORD	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			270	6		4 1/2

SLUSH PUMP RECORD	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			250	6	8.5	4 1/2

SLUSH PUMP RECORD	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			270			

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	12:00					865-936'

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	9:00	41	11.8			50 lbs Spersene

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	6:00	37	12.2		11.0	50 Spersene

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

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

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

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
MAKE WP PACKER & RAN IN HOLE	12:00	2:00	2

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
Rig Service, Ch B.O.P's	8:00	8:15	1/4

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.
Rig Ser	4:00	4:15	1/4

Driller: E. Riske

Driller: Jan Burnett

Driller: O. Boock

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:

MNFR. DRILLING LINE IN USE

REEL SERIAL No.

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher: R. Kovacs

Approved by

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES NO

Approved by

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY
YES ☒ NO ☐

IMPERIAL OIL LIMITED

MAYHEW 2000 DAILY DRILLING REPORT

Lac Tache

LSD

SEC

TWN

RGE

W

Contractor Sedco

Type Rig Rotary

Month March

Day 10

1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																					
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																													
		880	882	5 7/8	Quartz													882	889	5 7/8	Quartz													887	903	14	5 7/8	DOLomite																													
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.																																				
		2 7/8		35		166.07							2 7/8			35	12.00	166.07							2 7/8			36		166.07																																					
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		9			166.07	DRILLING STRING										COLLAR		8			166.07	DRILLING STRING										COLLAR		8			166.07	DRILLING STRING																													
DATA															DATA															DATA																																					
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																												
		23	WTR	5 AM		3 1/2			0	7.50						23		WTR	5 AM		6 1/4		67.00	9	7.50						23		WTR					18	7 1/2																												
		Bit Serial No. 23 57621										Table R.P.M.												Bit Serial No. 23 57621										Table R.P.M. 85												Bit Serial No. 23 57621										Table R.P.M. 85											
		Jet or Conventional - DIAMOND BOYLES 68-59										Nozzle Size												Jet or Conventional -										Nozzle Size												Jet or Conventional -										Nozzle Size											
SURVEYS		Kind	at		Ft.		Deg. off									Kind		at		Ft.		Deg. off									Kind		at		Ft.		Deg. off																														
SLUSH 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														On Line		Circulating																																																
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																												
		1 AM	48	12			Water												930	43				Water												500	43																														
																			2:00	43			8.0													11:00	40																														
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																														
		878	880	7	7	3	Chertman																																																												
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.															From	To	Hrs.															From	To	Hrs.																											
		Coring		12	1 45	1 3/4													Rig Set. Ch. B.O.P.S		800	815	1 1/4													Drilg		400	815	4 1/4																											
		Pull out + remove core		1 45	3 15	1 1/2													Only		815	1015	2																																												
		Ran. back in to ream		3 15	4 30	1 1/4													Cleaning pit		1015	1 15	3													trip for A/B		815	1015	1 3/4																											
		Reaming rat hole		4 30	7	2 1/2													Only		1 15	401	2 3/4													Drilg		1000	1200	2																											
		Drilling		7	8	1																																																													
Driller		S. Riske													Driller		Jan Brumitt													Driller		O. Buck																																			

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:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USEREEL SERIAL No.
HOSE SERIAL No.DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY
YES ☒ NO ☐

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher RA Kovacs

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

16

Loc. Tache 35 LSD. SEC. TWN. RGE. W. Contractor Sedco Type Rig Rotary Month March Day 9 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																											
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation																							
		853	872	19	4 3/4							872	873	1	5 5/8	QUARTZ						873	876	3	5 5/8	QUARTZ																					
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.																				
		2 7/8		33		166.07							2 7/8	34		7' UP	166.07							2 7/8	34		7' UP	166.07	-24.35																		
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		8			166.07	DRILLING STRING				DRILL COLLARS				COLLAR		8			166.07	DRILLING STRING				DRILL COLLARS				COLLAR		8			166.07	DRILLING STRING				DRILL COLLARS									
DATA												DATA												DATA																							
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																		
		10	1/2										10	1/2	830	1:15								12	1/2																						
		234												74												24																					
		Rerun												Rerun												Rerun																					
		Bit Serial No. 8859												Bit Serial No. 23 Rerun												Bit Serial No. 068-59 (12) 3572												Table R.P.M. 70									
		Jet or Conventional - Bayless Diamond												Jet or Conventional -												Jet or Conventional -												Nozzle Size									
SURVEYS		Kind	at	Ft.	Deg. off				Kind		at	Ft.	Deg. off				Kind		at	Ft.	Deg. off																										
SLUSH 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																												
		On Line	Circulating							On Line	Circulating					On Line	Circulating																														
		No. 1																																													
		No. 2																																													
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																				
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																				
		853	872	19	19	2	CHRISTENSEN																	873	876	3		3	CHRISTENSEN																		
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	From		To	Hrs.	From		To	Hrs.																																		
		Coring		12	4	4	Rig Ser.		800	830	4	RIG SERVICE & CHECK																																			
		Pull out & take out core		4	6:15	2 1/4	Reaming core hole		830	10:20	2	B.O.P. O.K.																																			
		Ran back in with bit		6:15	8	1 3/4	Drill		1030	1:15	2 3/4	400 450																																			
		Lift & trouble free					Repair Rig		1:15	4:00	2 3/4	RUN IN W/ BIT #12 RERUN																																			
		up					Trip out		1:15	2:00	3/4	& BREAK CIRCULATION																																			
							Repair rig		2:00	4:00	2	545 815																																			
												DRUG																																			
												PULL OUT TO CORE PICKUP BAR																																			
												Circulate 10 min - 10 min																																			
												3 10:15 1200 1 3/4																																			
												Driller O. Back																																			

CLASSES OF TIME BREAKDOWN: HEADING UP & DRUG, OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE: REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY?

Total Contract Timehrs. Total Company Timehrs. Toolpusher R. J. Hovos Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

15

Loc. Lake George LSD. SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor Sedco Type Rig Rotary Month March Day 8 1960.

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.									
DEPTH		From	To	Hole Made	Hole Size	Formation	From		To	Hole Made	Hole Size	Formation	From		To	Hole Made	Hole Size	Formation											
		813	831	18	5 5/8	Anhydrite			831	844	13	5 5/8	Anhydrite			844	853	9	5 5/8	DOLOMITE									
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.								
		2 7/8		34	11' up	124.76		2 7/8			33	2' up	124.76		2 7/8			33	7' up	166.07	24.35								
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		6			124.76	DRILLING STRING	DRILL COLLARS	COLLAR		6			124.76	DRILLING STRING	DRILL COLLARS	COLLAR		8	3 1/2			DRILLING STRING	DRILL COLLARS						
DATA								DATA								DATA													
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE				
		21	V3			12 1/2			38	21	V3	7:30	9:15	14 1/2	8:32		34	22	08-3	8:32	8:53	7 1/2		8 m	21				
Bit Serial No.		7360					Table R.P.M.					Nozzle Size					Bit Serial No.		10061 068-59					Table R.P.M. 150					
Jet or Conventional												Jet or Conventional							Jet or Conventional										
SURVEYS		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off								
SLUSH 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					On Line		Circulating				On Line		Circulating													
No. 2				225	6		4 1/2					250	6	86	4 1/2														
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								
		12:00 PM	40			8			9:00	43			8	25 Sperene		Old tally 853.00 New tally 854.38 diff - 1.38													
		1:10	38			8	Water		8:45	42			9.5	25 caustic															
		5:45	43			8	50 lbs soda ash																						
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.										
DETAIL OF OPERATIONS AND REMARKS		Drilling		12	8	8		Rig ser. ch. D.P.		8:00	30	1/2		Drilling		4:00	8:15	4 1/4											
								Only		8:30	9:15	3/4		Drain down + measure															
								Tripping, repair drill collar		9:15	12:30	3 1/4		out to 4 Core #2		8:15	10:00	1 3/4											
								cut centre out bit						Make up core Bbl		10:00	10:30	1/2											
								Only		12:30	2:30	2		Run in w/ core Bbl		10:30	11:30	1											
								W/O Rymotor - power end		2:30	3:00	1/2		Circulate hole clay		11:30	12:00	1/2											
								Only		3:00	4:00	1																	
Driller		G. Riske					Driller					J. Burnett					Driller					O. Boek							

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher R. J. Hovner

Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Lac Tache

LSD

SEC

TWN

RGE

W

Contractor Sedco

Type Rig Rotary

Month March

Day 7

196

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		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	Hole Size	Formation			From	To	Hole Made	Hole Size	Formation			From	To	Hole Made	Hole Size	Formation														
		748	765	17	5 7/8	Anhydrite			765	793	28	5 7/8	Anhydrite			893	813	20	5 7/8	Anhydrite														
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.											
		2 7/8		29	17' up	166.07				2 7/8		30	70P	166.07				2 7/8		31	6' up	124.76												
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL												
COLLAR		8			166.27	DRILLING STRING	DRILL COLLARS			8			166.07	DRILLING STRING	DRILL COLLARS			6			124.76	DRILLING STRING	DRILL COLLARS											
DATA																																		
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE			No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE			No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE					
		19	OSC-3	2 30		12 1/4			40			20	OSC-3	4 30		3 1/2			10			20	OSC-3			12			43					
		20	OSC-3	4 30		3 1/2			10			20	OSC-3	4 30		3 1/2			10			20	OSC-3			12			43					
		Bit Serial No. 59717-20 11537 Table R.P.M.										Bit Serial No. 20-11537 Table R.P.M. 145										Bit Serial No. 22 11537 21 7360 Table R.P.M.												
		Jet or Conventional -										Jet or Conventional -										Jet or Conventional -												
SURVEYS		Kind at Ft. Deg. off										Kind at Ft. Deg. off										Kind at Ft. Deg. off												
SLUSH 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									
		No. 1	No. 2																															
				225	6		4 1/2						300	6	90	4 1/2						200	6											
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			9.8						9 30	40			8	100 lbs Soda					8 00	41			9								
		4 30	50			8	Water					11 30	40			8	ash																	
		5 40	40			8						3 30	40			9																		
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					
DETAIL OF OPERATIONS AND REMARKS																																		
		Drilling										Rig set ch B.O.P.s										Only												
		Bit Change										D-19																						
		Drilling																				Survey (Instrument Brake)												
																						Trip for N.B. lay down												
																						2 drill Collars												
																						Only												
																						730 12 00 4 1/2												
Driller		E. Risko										Driller										O. Boek												

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

MNFR. DRILLING LINE IN USE

MNFR/OE/KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

Approved by

Lac Tache C-35

LSD..... SEC..... TWN..... RGE..... W.....

IMPERIAL OIL LIMITED

Contractor Sedco

DAILY DRILLING REPORT

Type Rig Rotary

Month March Day 5 1960

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.

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation									
		684	705	21	5 7/8	ANHYDRITE						705	720	15	5 7/8	ANHYDRITE						720	748	28	5 7/8	ANHYDRITE									
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.								
		27 1/2	28	26	15' UP	166.17						27 1/2	27	21' UP	166.07						27 1/2	28	11' UP	166.07											
COLLAR		8				166.07		DRILLING STRING		COLLAR		8				166.07		DRILLING STRING		COLLAR		8				166.07		DRILLING STRING							
DATA						6000		2500		DATA						6000		2500		DATA						6000		2500							
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed	BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed	BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed						
		18	OSC3	930		10 1/2						18	OSC3	930	130 PM	15	7 1/2						19	OSC-3	230		9 3/4								
Bit Serial No.		8593								Table R.P.M.		Bit Serial No.		8593								Table R.P.M.		Bit Serial No.		59717								Table R.P.M.	
Jet or Conventional -										Nozzle Size		Jet or Conventional -										Nozzle Size		Jet or Conventional -										Nozzle Size	
SURVEYS		Kind		at		Ft.		Deg. off		SURVEYS		Kind		at		Ft.		Deg. off		SURVEYS		Kind		at		Ft.		Deg. off							
SLUSH 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		175		6		4 1/2		On Line		Circulating		200		6		4 1/2		On Line		Circulating		200		6		70		4 1/2			
No. 2																																			
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	37			8							900	41			9							1000	44			9							
		430	45			9							1130	42			9																		
		615	43			8							400	42			9																		
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS		From		To		Hrs.				DETAIL OF OPERATIONS AND REMARKS		From		To		Hrs.				DETAIL OF OPERATIONS AND REMARKS		From		To		Hrs.									
		Drilling		12		8		8				Rig Ser. ch. B.O.P.		800		930		1/2				Rig Service		400		415		1/4							
												Working on pumps		830		900		1/2																	
												Only		900		130		1 1/2																	
												Trip for N.B.		130		230		1																	
												Only Dev		230		400		1 1/2																	
Driller.....		E. Rake								Driller.....		Jan Burnett								Driller.....		O. Back													

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

MNFR. DRILLING LINE IN USE

REEL SERIAL No.

MNFR. OF KELLY HOSE IN USE

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

K. H. Morris

Approved by

ZONE _____ TACHE _____ LSD _____ SEC _____ TWN _____ RGE _____ W _____ Contractor SECO DRLG Type Rig MAYHEW 2000 Month MARCH Day 5 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																											
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation																					
		615	633	18	5 7/8	ANHYDRITE						633	661	28	5 7/8	Anhydrite						661	184	53	23	Anhydrite																					
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.																				
		2 7/8		22	3 1/2 UP	166.07						2 7/8	24		20' up	166.07						2 7/8		25	15' up	166.07																					
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		8	3 1/2		166.07	DRILLING STRING				DRILL COLLARS				COLLAR		8			166.07	DRILLING STRING				DRILL COLLARS				COLLAR		8			166.07	DRILLING STRING				DRILL COLLARS									
DATA												DATA												DATA																							
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																		
		16	Osc. 3	3:5		16 1/2		6M	38		16		Osc. 3	3:5	8:15	16 3/4			39		17		Osc. 3	9:15	8:30	7 1/2	677		42																		
		17	Osc. 3	9:15		5 1/2			26		17		Osc. 3	9:15		5 1/2			26		18		Osc. 3	9:30		2 1/2																					
Bit Serial No.		10060										Table R.P.M.		87										Bit Serial No.		10060										Table R.P.M.		95									
Jet or Conventional												Nozzle Size												Jet or Conventional												Nozzle Size											
SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off													
SLUSH 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	125		6		80		4 1/2		On Line		Circulating	200		6		4 1/2		On Line		Circulating																								
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																				
		3:00	39			10.					9:15		45			9					4:45		40			10																					
		5:00	41			9.6					10:50		39			9					7:30		42			9	50 lbs Soda																				
											3:15		42			10					9:30		45			10																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																				
DETAIL OF OPERATIONS AND REMARKS												From		To	Hrs.											From		To	Hrs.																		
		Rig Set										12:00		12:15	1/4	Drilling										8		8:15	1/4	Only																	
		Drilling										12:15		8:00	7 3/4	Bit Change										8:15		9:15	1	Dev. miss run																	
																-Drilling										9:15		1:00	3 3/4	Trip A.B.																	
																Rig Repair										1:00		2:30	1 1/2	Only																	
																Drilling										2:30		4	1 1/2																		

CLASSES OF TIME BREAKDOWN										OTHER	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY		
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES	NO	

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher R. D. Davis

Approved by _____

YES NO

DAILY DRILLING REPORT

1

SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor SECO DRLLG Type Rig MAYHEW 2000 Month MARCH Day 4 1960

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.

1950

CLASSES OF TIME BREAKDOWN									
DRILLING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
FISHING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:			
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC:	MNFR. OF KEY HOSE IN USE	HOSE SERIAL N.	YES

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY?

YES ☒ NO ☐

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

LA TACHE LSD C-35 SEC. TWN. RGE. W. Contractor SECO DRLG Type Rig MAYHEW 2000 Month MARCH Day 3 196

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.									
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation														
	515	521	6	5 5/8	ANHYDRITE	521	541	20	5 5/8	ANHYDRITE	541	559	18	5 5/8	ANHYDRITE														
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.											
	2 7/8		17		166.07		2 7/8		18		166.07				19	16 1/2	166.07												
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	8			166.07	DRILLING STRING	DRILL COLLARS	COLLAR	8			166.07	DRILLING STRING	DRILL COLLARS	COLLAR	8			166.07	DRILLING STRING	DRILL COLLARS									
DATA							DATA					5000		DATA															
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	Reamed		
	14	V3	6:30		1 1/2			6		14	V3	6:30		9 1/2			26			14	V3	6:30 AM	10:00 AM	15 1/2		40			
	Bit Serial No. 7270				Table R.P.M. 100					Bit Serial No. 7270				Table R.P.M. 110					Bit Serial No. 7270 - Hughes 59046				Table R.P.M. 110						
	Jet or Conventional -				Nozzle Size					Jet or Conventional -				Nozzle Size					Jet or Conventional -				Nozzle Size						
SURVEYS	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off																	
SLUSH 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					On Line	Circulating					On Line	Circulating															
No. 2			100	6	70	4 1/2			100	6"	80	4 1/2						4 1/2											
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											
						TEST No. 1 - 470-515	9 AM	37			8		4:30	40			9	50 lbs Soda ash											
						15L 90 mins	1:30	37			11	100 lbs Soda Ash	7:00	42			10												
						Blow 45 mins	4 PM	40			11		7:45	37															
	7 AM 45					FSI. 45 mins																							
						Recovered 44" water																							
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.																				
	FINISH MAKING UP TOOL			Drilling	8	7:40	1:40	Only Drlg	4:00	1:00																			
	RUN IN W/ SDR	12:00	1:15	1 1/4	Change oil & check BOP	10:00	0:20	Trip for N.B.	1:00	1:15																			
	TESTING	1:15	4:15	3	Drilling	10:00	4	6	Only Drlg	1:15	12:00																		
	PULL OUT AND LAY DOWN																												
	TOOL	4:15	6:00	1 3/4																									
	RUN IN W/ BIT #14	6:00	6:30	1/2																									
	DRLG	6:30	8:00	1 1/2																									
Driller	O. Bock						Driller	L. Riske						Driller	Jan Burnett														

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

9

LAC TACHE ⁶⁻³⁵ LSD SEC. TWN. RGE. W. Contractor JERCO DRILL Type Rig MAYHEW 2000 Month MARCH Day 2 19 60

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation				From	To	Hole Made	Hole Size	Formation																			
		417	460	43	5 5/8	SHALE + DOLOMITE				460	504	44	5 5/8	Dolomite				504	515	11	5 5/8	Dolomite																			
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.																		
		2 7/8				166.07				2 7/8				166.07						16	down																				
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		8			166.07	DRILLING STRING				COLLAR	8				DRILLING STRING				COLLAR	8				DRILLING STRING																	
DATA										6700																															
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
		12	V2D	9:45		10			62		12	V2D	9:45	10:40	12				64		13	V3	11:15	8:00	8		5:00	53													
		- Bit Serial No. 3572 Table R.P.M.										Bit Serial No. 7276 Table R.P.M. 90										Bit Serial No. 7276 Table R.P.M.																			
		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size																			
SURVEYS		Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off																
SLUSH 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																
		On Line	Circulating								On Line	Circulating								On Line	Circulating																				
				150	6	72	4 1/2						170	6	80	4 1/2						150	6		4 1/2																
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																
		3:00	37								1:00 PM	40			10	30 lbs. SP. ...				5:00	37																				
		7:30	40								3:30	42			11	25 lbs. SP. ...				7:30	39				Water																
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																
						1																																			
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.							From	To	Hrs.							From	To	Hrs.																	
		RIC SGR		12:00	12:15	1/4					Drilling		8	10	2							Drilling		4:00	8:00	4															
		DRLG		12:15	8:00	7 3/4					Bit change		10	11	1							W/O pumps		8:00	9:00	1															
											Hook up flare line		1:15	1:45	1/2							Circ. making up packer		9:00	10:30	1 1/2															
											Drilling		1:45	3:10	1 1/4							Pulling out to test		10:30	11:15	3/4															
											Rig service—Check BOP		3:00	3:30	1/2							Measure out																			
											Drilling		3:30	4	1/2							Tripping in making up		11:15	12:00	3/4															
																						packers																			
Driller		O. BOCK								Driller								E. Riehl								Driller								B. Smith							

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ☒ NO ☐
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher R. K. Kovacs Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Loc. Tache-G35 LSD..... SEC..... TWN..... RGE..... W..... Contractor Sedco..... Type Rig Rotary..... Month March Day 1 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation									
		332	350	18	5 7/8	SHALE + SANDY DRIFT																370	417	47	5 3/8										
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.								
		2 7/8				166.07						2 7/8				166.07										17.00									
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		8				DRILLING STRING				COLLAR		8				DRILLING STRING				COLLAR						DRILLING STRING									
DATA										DATA										DATA															
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				
		10	V3	1:30		2 3/4			18				11	V3	4:00									11	V3	3:00	9:00	5 1/2	398	3:00	28	20			
		Bit Serial No. 3571 Table R.P.M. 80										Bit Serial No. DIAMOND 5587 Table R.P.M.										Bit Serial No. 12 V20 945 2 1/4 3000 19 20													
		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Bit Serial No. V20 3572 Table R.P.M. 50													
SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off		SURVEYS		Kind	at		Ft.		Deg. off	
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	
		On Line	Circulating								On Line	Circulating								On Line	Circulating								On Line	Circulating					
				200	6	80	4 1/2															150	6"												
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		MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	
							2.1 SAG GEL									50 SPARSER				7:00	35														
																25 CAUSTIC				11:30	34														
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	
		350	352	7							358	370	12		1	Christensen																			
DETAIL OF OPERATIONS AND REMARKS		1	From	To	Hrs.			DETAIL OF OPERATIONS AND REMARKS		1	From	To	Hrs.			DETAIL OF OPERATIONS AND REMARKS		DETAIL OF OPERATIONS AND REMARKS		1	From	To	Hrs.					DETAIL OF OPERATIONS AND REMARKS		1	From	To	Hrs.		
		DRILL OUT PLUG + SHOE TEST FORM	12:00	1:15	1 1/4							8	9:45	1 3/4			Repair pumps						8	9:45	1 3/4			Reaming core hole		8:00	5:00	1			
		MIX GEL	1:15	1:45	1/2							9:45	12:25	2 3/4			Coring						9:45	12:25	2 3/4			Drig		6:00	9:00	4			
		DRUG	1:45	3:00	1 1/4							12:30	1:00	1			Pull out of hole						9:45	12:00	2 1/2			Tripping + checked BOP		9:00	9:45	5			
		MIX GEL + CIRCULATE TO CORE	3:00	4:00	1							1:00	2:30	1 1/2			Take out core											Only							
		PULL OUT TO CORE	4:00	4:30	1/2												Run Hook up fill up																		
		MAKE UP CORE BBL	4:30	5:00	1/2												Line																		
		RUN IN W/ CORE BBL + CIRC	5:00	6:15	1 1/4												Run in hole to ream																		
		◇ CORING	6:15	7:15	1												drill ahead.																		
		PUMP BROKE DOWN	7:15	8:00	3/4																														
Driller		O. Back								Driller		E. Riche								Driller		Jan Burnett													

HEADING UP & DRUG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W.O. ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher R. J. Kovacs

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Loc. Lake C-25 LSD. SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor Sedes Type Rig Rotary 2022 Month Feb. Day 29 1960

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	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	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation									
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	DRILL	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					DRILL COLLARS	DATA					DRILL COLLARS	DATA					DRILL COLLARS						
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
								Drilled									Drilled							Drilled
								Reamed									Reamed							Reamed
SURVEYS	Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.												
	Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size												
	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off												
	SLUSH PUMP RECORD	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						
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.						
Driller	<u>Back</u>						<u>E. Riske</u>						<u>Jan. Burant</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:

MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.
HOSE SERIAL No.

DID YOU CHECK BLOWOUT-
PREVENTER EQUIPMENT TODAY

YES ☒ NO ☐

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher R. J. Kovacs

Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 6

LAC TACHE LSD..... SEC..... TWN..... RGE..... W..... Contractor SERCO DRILL Type Rig MAYHEW 2000 Month FEB Day 28 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																														
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																																						
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.																																			
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										DRILL COLLARS										COLLAR		DRILLING STRING										DRILL COLLARS										COLLAR		DRILLING STRING										DRILL COLLARS																				
DATA																						DATA																						DATA																																
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE												BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE												BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																									
SURVEYS		Kind	at	Ft.	Deg. off										SURVEYS		Kind	at	Ft.	Deg. off										SURVEYS		Kind	at	Ft.	Deg. off																																									
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																	
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																																			
Coring		Ran 6 hrs 7' 20" L.C. Japanese casing with Baker float and shoe (Total 195.89 ft) Cemented with 62 SKS cement plus 2 1/2 gal 2 Cement returns Plug down 4' 5" pm. Casing landed at 187 ft K.B.															Cut off																																																											
		George H. Lytle																																																																										
DETAIL OF OPERATIONS AND REMARKS		PULL OUT CASING + LAY DOWN SAME 1200 200 2															Reaming 9 7/8" 8:00 8:30 1/2 Circulating 8:30 9:00 1/2 Rig up for casing + Ran same. 9:00 1:00 4 Rig up cementing unit + cementing 1:00 4:00 3															Pumping plug. 4 4:15 15 1/4 W.O.C. 4:15 12:00 7 3/4																																												
Driller		O. Bock															Driller															L. Riecke															Driller															J. Burnett														

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher PA K. K. K.

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 5

Lac-Tache LSD SEC TWN RGE W Contractor Sedco Type Rig Rotary Month Feb Day 27 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.										
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				
Rang		0	382																											
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				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS						
DATA										DATA										DATA										
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
		9	6CS-3	1130	700	7 1/2			332																					
		Bit Serial No. <u>92-Rerun</u>				Table R.P.M.				Bit Serial No. <u>999-RERUN</u>		Table R.P.M.				Bit Serial No. <u>9 7/8" Rerun</u>		Table R.P.M.												
		Jet or Conventional -				Nozzle Size				Jet or Conventional -		Nozzle Size				Jet or Conventional -		Nozzle Size												
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off							
SLUSH 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					On Line		Circulating					On Line		Circulating													
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							
		75																												
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.			From		To	Hrs.			From		To	Hrs.													
		Reaming casing stuck at 25 ft		1200	700	7			TRYING TO RUN CASING		800	1200	4			Reaming		4	9 15	5 1/4										
		Rigging up to run casing		700	730	1/2										Circulating		9 15	9 30	1/4										
		Running casing		730	800	1/2			REAMING OUT TO BOTTOM		1200	400	4			Pull out & prepare to run casing		9 30	10 30	1										
																Trying to run casing		11 30	12	1 1/2										
Driller		<u>J. Ann Burnett</u>								Driller		<u>O. BOCK</u>								Driller		<u>E. Riche</u>								

HEADING UP & DRILG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher R. K. Kowalski Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 4

Loc. Tache LSD. SEC. TWN. RGE. W. Contractor Sedco Type Rig Rotary Month Feb Day 26 1960

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.									
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation			
		270	335	75	9 3/8	Surface						20	280	260	9 7/8	SURFACE						280	335	55'	9 7/8				
		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.						Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.						Size-D.P.	Stands	Singles	Kelly	Drill. Collar 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	8				DRILLING STRING DRILL COLLARS					COLLAR	8				DRILLING STRING DRILL COLLARS				COLLAR	8				DRILLING STRING DRILL COLLARS				
	DATA										DATA										DATA								
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
	8	OCS-3	3 PM	6:30 AM	14 1/2	335	145	20			9	OCS-3	7:30 AM	8			280	280		9	OCS-3		335	10 1/2	335		335		
	9	OCS-3	7:30 AM				20																						
	Bit Serial No. 978-51683 Table R.P.M.										Bit Serial No. 51683 Table R.P.M.									Bit Serial No. 978-51683 Table R.P.M.									
Jet or Conventional -									Jet or Conventional -									Jet or Conventional -											
SURVEYS	Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off				Kind	at		Ft.		Deg. off					
	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									
SLUSH PUMP RECORD	No. 1									No. 1									No. 1										
No. 2									No. 2									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					
	1:00	75				50 lbs S.A.P.P.																							
	6:30	60																											
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.							From	To	Hrs.							From	To	Hrs.						
	Reaming 9"		1200	630	6 1/2					RIG SER		800	830	1/2					Reaming 9" To 9 7/8		4	630	2 1/2						
	Bit Change		630	730	1														Dummy Trip measure out		630	730	1						
	Reaming		730	800	1/2					REAMING TO 9 7/8		830	400	7 1/2					Pulled out & prepare to run surface casing		730	1000	2 1/2						
																			Try to run casing		1000	1100	1						
																			Rig up to ream		1100	1200	1						
Driller: <u>Jan Burnett</u>										Driller: <u>O. Brock</u>										Driller: <u>E. Riske</u>									

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher R. K. Kovacs Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 3

Lac Tache LSD SEC TWN RGE W Contractor Sedco Type Rig Ratney Month Feb 25 Day 1960

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	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	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	8	110	110	9"	Surface gravel	110	190	80	9"	SURFACE GRAVEL	190	270	80	9"	shale
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.
	DRILL	Number	OD	ID	Length	DRILL	Number	OD	ID	Length	DRILL	Number	OD	ID	Length
	COLLAR	5				166.07	8	3 1/2			166.07				
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run
	005	1100	100	2		7	035	130	3 PM	13	190	8	OSC. 3	4 PM	8
	005	130				8	050	4 PM							
SURVEYS	Bit Serial No.	Used 72	9' - 29247	Table R.P.M.	Jet or Conventional -	Bit Serial No.	29247	29265	Table R.P.M. 80	Jet or Conventional -	Bit Serial No.				Table R.P.M.
	Kind	at	Ft.	Deg. off	Nozzle Size	Kind	at	Ft.	Deg. off	Nozzle Size	Kind	at	Ft.	Deg. off	Nozzle Size
	SLUSH PUMP RECORD	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.
MUD RECORD	Time	Visc.	Wt.	W L	pH	Time	Visc.	Wt.	W L	pH	Time	Visc.	Wt.	W L	pH
	6:00	65									7 PM	60			
	ADDITIVES - POUNDS					ADDITIVES - POUNDS					ADDITIVES - POUNDS				
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	From	To	Ft. Cored	Ft. Rec'd.	Core No.
	REMARKS					REMARKS					REMARKS				
DETAIL OF OPERATIONS AND REMARKS	Reaming 7 3/4	1200	100	13		RIG SER	800	830	1/2		Reaming 5 7/8 to 9"	4	12	8	
	Changing bits	100	30	1/2		REAM TO 9"	830	300	6 1/2						
	Reaming 9"	130	800	6 1/2		TRIP FOR A.B. REAM BACK TO BOTTOM	300	400	1						
Driller: <u>Jan Burnett</u>					Driller: <u>O. BOCK</u>					Driller: <u>S. Rake</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: MNFR. DRILLING LINE IN USE: REEL SERIAL No. MNFR. OF KELLY HOSE IN USE: HOSE SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY: YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher R. K. K. K.

Approved by _____

Total Contract Timehrs. Total Company Timehrs. Toolpusher RA Kovacs Approved by [Signature]

Toolpusher TRB Kovacs