

IMPERIAL-TRIAD-DAVIDSON CREEK

P-2

Drilling Authority No.
Date Issued

WELL NAME Imperial Triad Davidson Creek P-2

FIELD Wildcat

Area: Willow Lake

LOCATION: Unit

Section 2

Grid

62-20-418-15

Latitude 62°12'45" N.

Longitude 118°15'05" W.

From Established Reference Marker

Rig Release Date: 4-2-60

Status D & A

Information Release Date 4-2-62

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No.
MAR 22 1962	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.



Drilling Authority No.

Date Issued

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

WELL COMPLETION DATA

(To be submitted in duplicate within thirty days after the completion rework, abandonment, recompletion or suspension of every well.)

Well name and number IMP TRIAD DAVIDSON CREEK P-2
Permit No. ~~Imperial Oil~~ ~~Imperial Oil~~ & Triad Oil Lease No.
~~Imperial Oil~~ (Permitter, Licensee, Lessee) Exploratory Licence No. Not available
Imperial Oil Limited (Operator) Exploratory Licence No. Not available
Location: Unit P Section 2 Grid 62°20' - 118°15'
Latitude 62°11'11.00" N Longitude 118°15'11.00" W
From Established Reference Marker N. 10261' W. 521' from SE Bdy. Permit 2175

	DATE	DEPTH	Pool (S)
			Interval(s) open to production
Spudded	Jan. 5/60		
Suspended			
Resumed			
Finished Drilling			
Deepened			Elevation: Gr. 2073.4
Complete (gas/oil)			K.B. 2086
Abandoned	Feb. 4/60	2737	Drilling Contractor & Rig No. I.O.L.
Rig released	Feb. 4/60	2737	Contractor's Licence No.

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 7			462	308	
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sea	From	To	Rec.	From	To	Rec.
PLEISTOCENE			1724	1913				
Glacial Drift	XEB	XEBXEB	1940	1990				
			2010	2048				
LOWER CRETACEOUS	460	+ 1625	2126	2176				
			2502	2550				
UPPER DEVONIAN	XEBX		2705	2731				
Simpson	1025	+ 1061						
MIDDLE DEVONIAN	1470	+ 606						
Keg River	1714	+ 372						
Chinchaga	1875	+ 210						
PRE DEVONIAN	2137	- 52						
PRECAMBRIAN	2690	- 605						

LOG RECORD

Run No.	Type of Log	From	To
1	Electric	461	2165
1	Laterolog	462	2734
1	Microlaterolog	400	2732
1	Gamma Ray Neutron	100	2736
1	Sonic Log	20	2730

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullt, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Feb. 4/60	2737	2637	20 sax & 2 $\frac{1}{2}$ CaCl ₂								
"	1750	1650	20 sax & 2 $\frac{1}{2}$ Ca Cl ₂								
"	400	500	20 sax & 2 $\frac{1}{2}$ CaCl ₂								
			3 sax on 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.	P.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
														NO TESTS RUN

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

Imperial Oil Limited

COPY (ORIGINAL) R. F. FINCH

Well File Clerk

November 20/1961

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 Jan. 4/ 1960
to Feb. 5/ 1960

~~COMPLETION~~
~~REWORK~~
REPORT of ~~RECOMMENDATION~~ of a Well
~~RECOMMENDATION~~
ABANDONMENT

Permit No. 2175

Name of well Imp. Triad Davidson Creek P-2 Lease No.
Registered owner Imperial Oil Limited Drilling Company Wardson Drilling
Triad Oil Co. Ltd.
Location 62° 11' 11.00" N. Lat. 118° 15' 11.00" W. Long.
Survey description, if available
Elevation: Ground 2073.1' Last previous depth 2137' ft. K.B.
Kelly bushing. 2083.3' Present depth
Spudded January 6th, 1960 Finished drilling 2/2/60 Rig Released
February 5th, 1960
Deviations from vertical 0 to 1 3/4°

CASING RECORD

Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1 Jan. 11/60	7	20	J-55	461	204	Surface
2.						
3.						
4.						

TUBING RECORD

Size	Wt. lbs/foot	Grade	Amount	Landed Depth	Remarks
Wellhead		(Manufacturer)		(Size)	(Series)

Pumping or flowing
 Plug back
 Other

CEMENT PLUGS SET

Date	Plug set at	Sacks cement	Method	Top found at
Feb. 3/60	2737' - 2637'	20	Displacement	Not felt
Feb. 3/60	1750' - 1650'	20	Displacement	1545'
Feb. 4/60	900' - 400'	20	Displacement	398'

Set 5 sack cement plug in top of casing and welded steel plate
 and name plate on top.

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

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

Core analysis (was made) of the Intervals None
 (to be made)

Oil analysis (was made) of the Intervals None
 (to be made)

Gas analysis (was made) of the Intervals None
 (to be made)

Water analysis (was made) of the Intervals None
 (to be made)

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

ADDITIONAL DETAILS AND COMMENTS

Signed.

J. L. Riley
 FEB 30 1960

Address

Dawson Creek, B.C.

Date

(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.)

Imp Triad Davidson Creek P-2



Imperial Oil Limited air photo line overlap, showing well location, topographic tie points and cutlines. Photo to accompany location plan. Scale: 2"=1 mile approx. Flown: April 1960. Compiled: T.G. Watmore.

Imp Triad Davidson Creek P-2



Imperial Oil Limited air strip shown overlaps well location
topographic tie points and cutlines. Photo to go on map
location plan Scale 1:2 = 1 mile approx. Fleming April 1977
Compiled T.G. Watmore

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

~~STOP~~

a Well.

~~STOPPING DRILLING~~

(Strike out operation which does not apply)

In accordance with Sections 48 & 69 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

~~Abandon~~ the well named ~~Imperial Day 14000 Creek P-2~~ on Oil

Permit No. ~~2175~~

and Gas

Registered in the name of ~~Imperial Oil Limited and P-14000 Co. Ltd.~~

Lease No.

Depth ~~2137~~ . . . feet. Elevation above sea level: Ground surface . . . ~~2073.1~~ . . ft.
Kelly bushing . . . ~~2085.3~~ . . ft.

Location . . . ~~62° 11' 11.00~~ . . . N. Lat. . . . ~~118° 15' 11.00~~ . . . W. Long.

~~10661~~ . . . (N. of S. boundary) (Permit No. ~~2175~~)
(S. of N. boundary) of (Lease No.)
~~571~~ . . . (W. of E. boundary) of (Permit No.)
(E. of W. boundary) (Lease No. ~~2175~~)

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	20.0	535	150	161	204	Displacement	Nil
2 - . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
3 - . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
4 - . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .

OIL, GAS AND WATER

Oil from ~~Nil~~ . . . feet to . . . feet From . . . feet to . . . feet with
. sacks cement

Oil from ~~Nil~~ . . . feet to . . . feet From . . . feet to . . . feet with
. sacks cement

H11
Gas from feet to feet From feet to feet with
sacks of cement.

H11
Gas from feet to feet From feet to feet with
sacks of cement.

H11
Water from feet to feet From feet to feet with
sacks cement.

H11
Water from feet to feet From feet to feet with
sacks cement.

Surface and bottom plugs:

- | | | |
|---|----|--------------|
| 1. from feet to feet with sacks cement. | 20 | |
| 2. from feet to feet with sacks cement. | 20 | felt @ 1545' |
| 3. from feet to feet with sacks cement. | 20 | felt @ 398' |
- Feb. 4th, 1960 2737'

Date of last operation Total depth To Surface

Nature of liquid left in well Level from surface
on suspension or abandonment

The following logs ~~XXXXXXXX~~ will be **Electrologs**
have been run

Produced from **N/A** zone and
on abandonment of a well which has been on production. **N/A**

Present condition of well in addition to above

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

Program of operation not included above

Responsible agents of permittee or lessee in charge of operation:
At well **A. J. McCaskill** Postal address **Imperial Oil Limited**
V. J. Moroney **Dawson Creek, B.C.**
At registered office Postal address **Imperial Oil Limited**
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, B.C.** this day of 19.

Signed by **A. J. McCaskill**

This program is approved subject to the following provisions

.....
.....
.....
.....

15.11. February 1965
Date

B. H. Shores
Oil Conservation Engineer

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

FORM "A"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

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. 2175 registered in the name of Lease No.

Imperial Oil Limited and Triad Oil Co. Ltd.

TYPE OF WELL:

Wildcat Wildcat

Development

Expected total depth . . 2,400 feet, in the
formation of . . . Precambrian age.

The well will be located at 62° 11' 41.00 N. Lat. 112° 15' 11.00 W. Long.

10,261 (N. of S. boundary) (Permit No. 2175)
~~(S. of N. boundary)~~ of ~~(Lease No.)~~
521 (W. of E. boundary) of (Permit No. 2175)
~~(E. of W. boundary)~~ ~~(Lease No.)~~

Survey description of Location, if known

Approximate surface elevation of . 2073.1 feet above sea level.

Name of well . . IMP. TRIAD DAVIDSON CREEK P-2

Type of drilling rig . . Emaco Rotary

Expected date of commencement . . January 5th, 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 Sufficient to cement to surface
1. <u>7"</u>	<u>20.0</u>	<u>J.55</u>		<u>New</u>	<u>300'</u>	<u>cement to surface</u>
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

..... will
An electric log ^{will} be run Other logs ^{will} be run
^{will not} ^{will not}

Name and address of drilling contractor . . Imperial Oil Limited.
300 - 9th Avenue South West, .
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 office . V. J. Moroney Postal address Imperial Oil Ltd.,
300 - 9th Avenue South West,
CALGARY, Alberta.

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

Dated at Dawson Creek this 17th day of December . . . 19 59 . . .

Signed by *K. Keeling*

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

Dec. 21, 1959.
Date

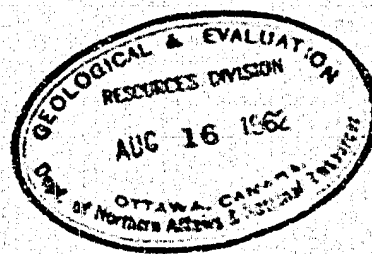
B. H. Shorn
Oil Conservation Engineer.

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

IMP TRIAD DAVIDSON CREEK P-2

P-2 (60° 20'; 118° 15')

CONFIDENTIAL



IMP TRIAD DAVIDSON CREEK P-2

P-2 62° 20'; 118° 15'

SUMMARY OF WELL DATA

<u>Location</u>	: 62° 11' 11.00"W; 118° 15' 11.00"W. Co-ords: 10261' N. of S. Boundary; permit 2175 521' W. of S. Boundary; permit 2175
<u>Elevation</u>	: Ground 2073.1'; K.B. 2085.9'
<u>Permit</u>	: H.M.T. P. & M.G. permit 2175
<u>Contractor</u>	: Wardian Drilling Co.
<u>Operator</u>	: Imperial Oil Limited
<u>Permittee</u>	: Imperial Oil Limited & Triad Oil Co. Ltd.
<u>Classification</u>	: New Field Wildcat
<u>Spudded</u>	: January 6, 1960
<u>Completed Drilling</u>	: February 2, 1960
<u>Total Depth</u>	: 2737'
<u>Well Status</u>	: Dry and Abandoned
<u>Planned Release</u>	: February 4, 1960
<u>Hole Size</u>	: 9 5/8" - 0' - 174'; 6 1/2" - 174' - 2737'
<u>Casing</u>	: 7" x 461' C- ³⁰⁸ 304 + 3% CaCl ₂ <i>with cementing.</i>
<u>Geological</u>	: H. Tatham 0' - 2737'
<u>Drilling</u>	: Wardian

DMP TRIAD DAVIDSON CREEK P-2

-2-

Summary - cont'd

<u>Formation Tong</u>	:	PLEISTOCENE	
		Glacial Drift	
		LOWER CRETACEOUS	460' (+1625')
		UPPER DEVONIAN	
		Simpson Formation	1025' (+1061')
		MIDDLE DEVONIAN	1470' (+ 616')
		Keg River Formation	1714' (+ 372')
		Chinchaga Formation	1875' (+ 210')
		PRE-DEVONIAN	2137' (- 52')
		PRECAMBRIAN	2690' (- 605')
		Total Depth	2737' (- 652')

<u>Core</u>	:		
<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Recovered</u>
1	1724'-1763'	Keg River	39'
2	1763'-1773'	"	15'
3	1773'-1798'	"	20'
4	1798'-1835'	"	37'
5	1835'-1850'	"	15'
6	1850'-1900'	"	50'
7	1900'-1913'	"	12'
8	1940'-1990'	"	50'
9	2010'-2048'	"	35'
10	2126'-2176'	Chinchaga	45'
11	2502'-2550'	Pre-Devonian	38'
12	2705'-2731'	Precambrian	25'

<u>Plugs</u>	:		
<u>No.</u>	<u>Interval</u>	<u>Sacks Cement</u>	
1	2737'-2637'	C-20 + 2% CaCl ₂	
2	1750'-1650'	C-20 + 2% CaCl ₂	
3	400'-500'	C-20 + 2% CaCl ₂	
4		5 sacks top of surface casing.	

/3 . .

Summary- cont'd

<u>Logs</u>	:				
<u>Time</u>	<u>Run</u>	<u>Date</u>	<u>From</u>	<u>To</u>	
Electric Log	1	Jan. 27/60	461'	2165'	
Laterolog	1	Feb. 2/60	462'	2734'	
Microlaterolog	1	Feb. 3/60	1400'	2732'	
Gamma Ray Neutron	1	Feb. 2/60	100'	2736'	
Sonic Log	1	Feb. 3/60	20'	2730'	

F. S. Jeffries

FSJ:rf
Dawson Creek
Feb. 1960

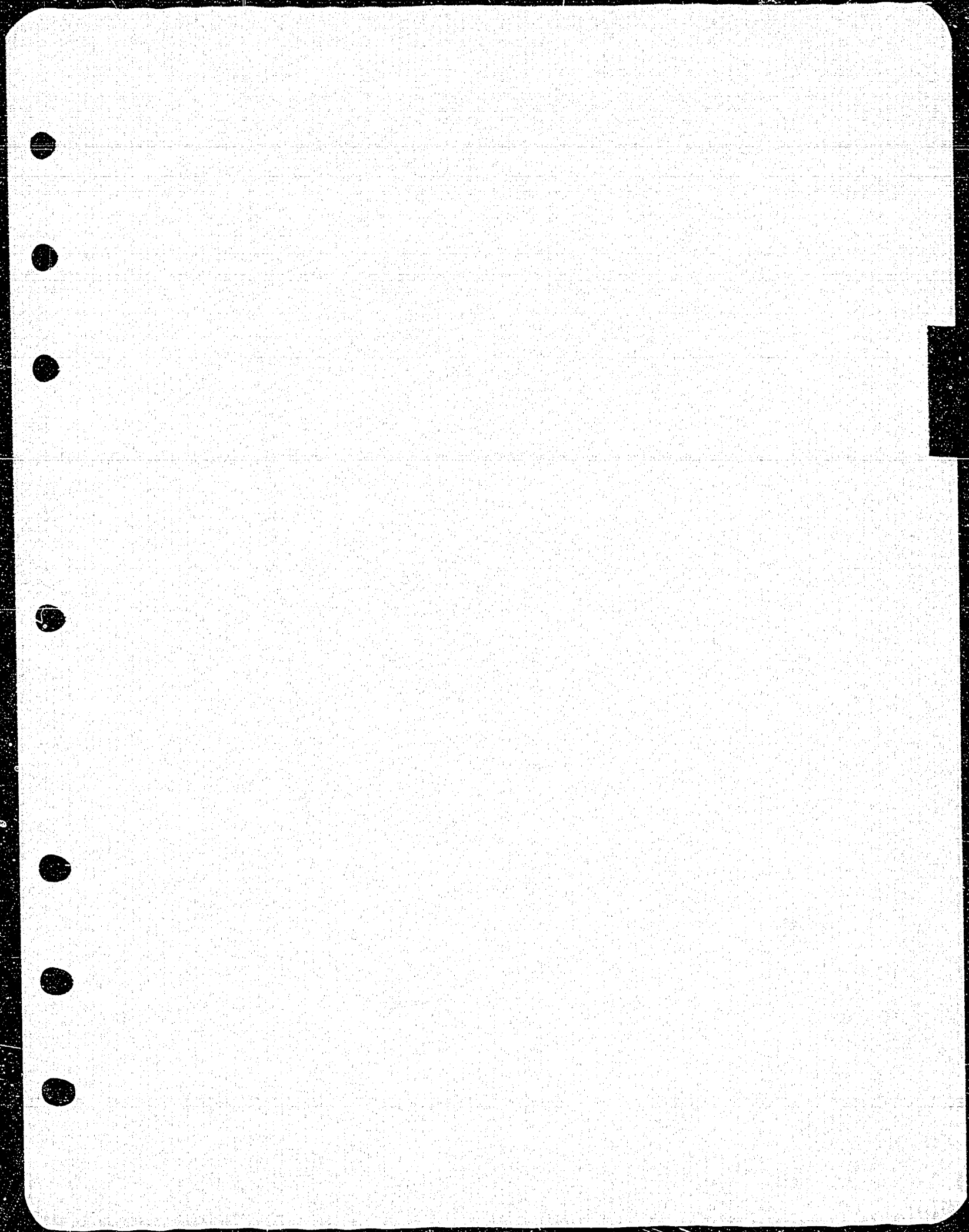
DMP TRIAD DAVIDSON CREEK P-2

P-2 62° 20'; 118° 15'

LITHOLOGICAL DESCRIPTION

- 100' - 460' PLEISTOCENE - Glacial Drift
Uncemented sand, gravel, and boulders derived from igneous rocks. Sand, buff to varicoloured coarse to very coarse, rounded. Gravel and boulders, varicoloured, derived mainly from granite.
- 460' - 1025' LOWER CRETACEOUS
Shale, medium grey, subfissile, slightly silty, slightly dolomitic in part, trace pyrite in part, trace glauconite in part. Fractures lined with white calcite crystals 690'-730'. Loss circulation after drilling.
- 1025' - 1470' UPPER DEVONIAN - Simpson Formation
Shale, light grey-green, subfissile to fissile very slightly silty.
- 1470' - 1714' MIDDLE DEVONIAN
Shale, medium to dark brown, marked bituminous appearance with occasional traces of disseminated pyrite.
- 1714' - 1798' Kee River Formation
Limestone, light grey brown, buff, predominantly skeletal-micrites. Skeletal fragments include crinoids, brachiopods, ostracods and gastropods in lime mud. Interbeds of lithographic mud particularly towards base with micrites and vague pellet-micrites showing a "birds eye" effect.
- 1798' - 1829' Interbeds of well sorted cemented skeletal, skeletal micrites and minor lithographic muds. Fragments have a distinct pellet appearance locally, and may be present in minor amount. Traces patchy staining and poor patchy interfragmental porosity.
- 1829' - 1875' Interbedded limestone and dolomite. Limestone, buff, brown, micritic-skeletal, lime mud and vague pellet micrite. Dolomite, buff, cryptocrystalline, shows abundant relict textures, (skeletal), has an earthy appearance with ineffective matrix porosity. Trace of oil staining.

- 1875' - 2035' Chinlewood Formation
Interbedded dolomite and anhydrite.
Dolomite, buff, brown, very fine microcrystalline to cryptocrystalline, shows abundant relict textures. Locally appears to have been a dolomitized skeletal mass. Interbeds of buff primary dolomite.
Anhydrite, white to brown occurs as patches, blebs and interbeds. Dense appearance. Increasingly anhydritic below 1960'. Traces of grey-green shale partings below 1960' with argillaceous dolomite below 2010'.
- 2035' SEA LEVEL
- 2137' - 2145' P.E.-DEVONIAN
Predominantly red beds with minor interbed coloured grey-green. Dolomite, red, grey, green crypto-crystalline, very argillaceous, becomes a shale below 2145', red, brecciated, dolomitic with traces of salt crystals.
- 2155' - 2390' Salt, clear with reddish tinge, very coarsely crystalline.
- 2390' - 2690' Interbedded dolomite, anhydrite and minor salt.
Dolomite, red to buff, very fine microcrystalline to cryptocrystalline, slightly argillaceous in part.
Anhydrite, brown, densely crystalline interbeds with occasional large blebs and patches.
Salt, minor interbeds at 2480'-96' and 2540'-66'.
- 2690' - 2737' PRECAMBRIAN
Granite, red, brown and green, weathered slippage planes dipping at 35°.
- 2737' Bottom of Hole.



Core #1

1724' - 1763' Recovered 39'.

1724' - 1742.2'
18.2'

Interbedded limestone, dark grey brown, skeletal micritic, 50% fine to very coarse skeletal fragments of ostracods, gastropods, brachiopods and crinoids in a micrograined to micrite matrix, tight, and limestone, dark grey brown, skeletal micritic 70%-80% very fine to very coarse skeletal fragments of ostracods, gastropods, brachiopods, and crinoids in micrite to fine microgranular matrix, trace hairline fractures filled with calcite, numerous darker argillaceous stylolitic partings, tight.

1742.2' - 1758.5'
16.3'

Limestone, dark grey brown, 20-30% very fine to coarse skeletal fragments in fine microgranular matrix, dark argillaceous stylolitic partings, tight.

1758.5' - 1763.0'
4.5'

Limestone, dark grey brown, dense lithographic, trace hairline fractures filled with calcite and pyrite, pyritic in part, argillaceous stylolitic partings, tight.

Coring Times:

12, 10, 10, 10, 10, 10, 10, 10, 12, 11, 11, 10, 10,
10, 10, 11, 10, 13, 12, 10, 9, 12, 12, 12, 13, 13,
14, 14, 10, 11, 12, 10, 10, 12, 11, 11, 18, 14, 18.

— H. Tatham —

Geologist

HT: rf
Dawson Creek
Jan. 1960

IMP TRIAD DAWSON CREEK P-2 P-2 62° 20'; 116° 15'

CORE #2.

1763' - 1778' Recovered 15'

1763' - 63.9'
.9'

Limestone, dark grey brown, dense lithographic, numerous hairline fractures filled with calcite, stylolitic partings, tight.

1763.9' - 66.4'
4.5'

Limestone, dark grey brown, 50-75% fine to very coarse skeletal fragments of ostracods, gastropods, brachiopods and crinoids in a micrite to fine microgranular matrix, numerous hairline fractures filled with calcite and dark stylolitic partings, scattered oil staining and bleeding oil from leached fossil casts and partially filled fractures, essentially tight.

1766.4' - 78.0'
9.6'

Limestone, dark grey brown, dense, lithographic, rare fine to coarse skeletal fragments, numerous hairline fractures filled with calcite, stylolitic partings, tight.

Coring Times:

15, 9, 10, 9, 8, 9, 10, 15, 10, 9, 11, 11, 11,
15, 15.

— H. Tatham —

Geologist

ET:rf
Dawson Creek
Jan. 1960

DAVE TRIAD DAVIDSON CREEK B-2 62° 20'; 112° 15'

CORE #1.

1772' - 1798' Recovered 26'

1778' - 79.5'
1.5'

Limestone, grey brown pellet micritic, 25% pellet, and 5% fine to coarse skeletal fragments, stylolite and dark grey pyritic shale partings, vertical fracture lined with clusters of yellow green sulphur crystals, tight.

1779.5' - 87.8'
8.3'

Limestone, buff brown, dense, lithographic, numerous thin fractures and vugs filled with clear calcite crystals, thin vertical fractures lined with clusters of yellow sulphur crystals, some thin, grey, pyritic shale laminas and stylolitic partings, tight.

1787.8' - 98.0'
10.2'

Limestone, buff brown, pellet micritic with 80% pellet and 10% calcite cement, dark argillaceous partings and stylolites, petroliferous odour, scattered traces blocking oil. tight.

Coring Times:

25, 22, 20, 12, 10, 12, 12, 13, 14, 14, 9, 10, 10,
10, 15, 12, 10, 12, 26, 14.

— R. Tatham —

Geologist

HT:rf
Davidson Creek
Jan. 1960

DMF TRIAD DAVIDSON, CREEK P-2 P-2 62° 20'; 113° 15'

Core #1

1793' - 1836' Recovered 37'

- 1793-1800.7'
2.7' Limestone, buff brown, dense lithographic; fractures and veins filled with clear calcite cement; thin argillaceous parting at 1795.0'; tight.
- 1800.7'-01.0'
2.3' Limestone, buff brown, pellet, 80% pellets, 10% calcite cement, 10% micritic, rare traces of very fine skeletal material, very slightly crystalline in top; tight.
- 1801.0'-05.2'
2.2' Limestone, grey cream, micritic, small fractures and veins filled with calcite, scattered vague pellets and fine skeletal material, tight.
- 1805.2'-06.8'
1.7' Limestone, dark grey brown, vague pellets and fine to medium angular skeletal fragments with 5% micritic matrix, thin argillaceous laminae, mottled at top, tight.
- 1806.2'-07.0'
.8' Limestone, dark grey brown, pellet, 90% pellets and vague pellets in a dark grey argillaceous micritic matrix, oil staining, tight.
- 1807.0'-10.5'
2.9' Limestone, grey brown, pellet micritic 60% vague pellets and fine to medium angular skeletal material in a micritic, argillaceous matrix, thin argillaceous partings, scattered oil staining, tight.
- 1810.5'-11.3'
.8' Dolomite, buff brown, fine microcrystalline, slightly calcareous, faint oil staining, tight.
- 1811.3'-14.8'
3.5' Limestone, buff brown, pellet micritic, 70% pellet with traces of fine to medium skeletal material, thin dark, argillaceous laminae and stylolites becoming more micritic in top 4", scattered oil staining, tight.
- 1814.8'-17.7'
2.9' Limestone, buff brown, dense, lithographic hairline fractures filled with calcite, argillaceous and stylolitic parting at base, tight.
- 1817.7'-25.5'
7.2' Limestone, buff brown, pellet-micritic 75% pellets, vague pellets and some fine to medium skeletal material, scattered traces of calcite cement, scattered oil staining, tight.

Core #1 - cont'd

1825.5'-29.3' 3.8'	Limestone, buff brown, dense, lithographic hair-line fractures, filled with calcite, numerous thin argillaceous partings and stylolites, <u>tight</u> .
1829.3'-32.9' 3.6'	Dolomite, buff brown, fine microcrystalline, argillaceous with thin shaly partings, calcareous, <u>tight</u> .
1832.9'-34.0' 1.1'	Limestone, grey, cream, micritic with clear calcite infilling vugs and fractures, <u>tight</u> .
1834.0'-35.0' 1.0'	Limestone, buff brown, dense lithographic, clear calcite infilling vugs and fractures, <u>tight</u> .
<u>Coring Times: -</u>	8, 11, 10, 9, 10, 11, 11, 11, 12, 12, 10, 10, 9, 10, 9, 11, 12, 10, 10, 4, 9, 10, 9, 9, 10, 12, 11, 11, 12, 10, 11, 10, 11, 10, 12, 13, 20.

- H. Tatham -

Geologist

HT:rf
Dawson Creek
Jan. 1960

DP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 118° 15'

CORE #5.

1835' - 1850' Recovered 15'

1835.0' - 38.6'
3.6'

Limestone, grey-brown, pellet, 85% pellets, 5% fine to very coarse skeletal fragments from crinoids, ostracods, brachiopods and gastropods, argillaceous styolitic parting at 1836' and at base, tight.

1838.0' - 40.4'
1.8'

Dolomite, cream buff, very fine microcrystalline, argillaceous, slightly earthy, faint oil stain, tight.

1840.4' - 43.0'
2.6'

Limestone, buff brown, pellet 85% pellets, 5% fine skeletal fragments in a micrite matrix, grading to micrite at the top, numerous dark styolitic partings, scattered oil staining near base, tight.

1843.0' - 43.7'
.7'

Dolomite, cream buff, very fine crystalline, calcareous, dolomitized pellet micritic limestone, oil stained, bleeding oil, tight.

1843.7' - 44.7'
1.0'

Limestone, buff brown, pellet, 80% pellets in a micrite matrix, numerous thin argillaceous laminae, tight.

1844.7' - 46.8'
2.1'

Dolomite, cream buff, very fine crystalline, calcareous, dolomitized, pellet micritic limestone, scattered oil staining, tight.

1846.8' - 47.6'
.8'

Limestone, buff brown, pellet 85% pellets in a micrite matrix, dark argillaceous partings, styolite at base, tight.

1847.6' - 50.0'
2.4'

Dolomite, cream buff, very fine crystalline, slightly calcareous, scattered oil staining scattered traces of fine vuggy porosity.

Coring Times:

10, 10, 9, 9, 4, 11, 10, 9, 8, 12, 6, 9, 13, 10, 10.

-- H. Tatham --

Geologist

HT:rf
Dawson Creek
Feb. 1960

TOP TRIAD DAVIDSON CREEK P-2 P-2 62' 20'; 113° 15'

CORE #6.

185' - 1900' Recovered 50'

1850' - 50.5'
2.8'

Dolomite, dark gray brown, fine microgranular, slightly argillaceous, oil stained, tight.

1850.8' - 53.4'
2.6'

Limestone, grey brown, pellet micritic, 40-60% pellets, partially dolomitized matrix, thin dark argillaceous laminae, tight.

1853.4' - 58.5'
4.8'

Dolomite, buff brown, very fine, microgranular, dolomitized micritic pellet limestone, slightly calcareous, argillaceous in part with thin dark argillaceous partings, oil stained, tight.

1858.2' - 59.4'
1.3'

Limestone, light grey cream, micritic, partially dolomitized, trace calcite cement, thin argillaceous laminae, tight.

1859.5' - 61.4'
2.1'

Limestone, grey brown, micritic, partially dolomitized, grading to dolomite top 4", tight.

1861.6' - 64.2'
2.4'

Dolomite, buff brown, fine microgranular, argillaceous laminae, faint oil staining, tight.

1862.2' - 70.7'
6.5'

Limestone, buff brown, pellet micritic, 65% pellets, partially dolomitized matrix, thin dark argillaceous partings, tight.

1870.7' - 1900'
29.3'

Dolomite, buff brown, very fine microcrystalline, slightly calcareous, dolomitized micritic and pellet limestones, slightly earthy, large anhydrite inclusions 1992'-90', argillaceous in part, numerous thin dark argillaceous laminae and stylolitic partings, scattered faint oil staining, tight.

Coring Times:

8, 9, 8, 7, 7, 6, 9, 6, 8, 10, 11, 12, 6, 8, 11, 12, 12, 10, 10, 11, 7, 6, 6, 6, 8, 7, 10, 7, 7, 8, 10, 10, 11, 7, 10, 10, 10, 11, 12, 12, 12, 10, 11, 10, 9, 12, 15, 10, 10, 9.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

DMP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 113° 15'

COKE #7

1900' - 1913' Recovered 12'

1900.0' - 00.5'
.5'

Dolomite, cream to buff brown, mottled, microcrystalline, hairline fractures and vugs filled with brown dolomite rhombs and anhydrite, tight.

1900.5' - 01.9'
1.4'

Dolomite, cream, microcrystalline to cryptocrystalline, mottled with large white to grey anhydrite inclusions, dark grey, pyritic shale partings at top, tight.

1901.9' - 2.6'
.7'

Dolomite, cream to buff brown, fine microcrystalline, dolomitized pellet limestone, numerous dark bituminous partings, tight.

1902.6' - 03.7'
1.1'

Anhydrite, buff to dark brown, mottled in part with buff brown dolomite, microcrystalline, crenulated, pyritic, argillaceous partings at base, tight.

1903.7' - 05.7'
2.0'

Dolomite, cream to buff brown, microcrystalline, dolomitized micritic and pellet limestone, hairline fractures and vugs filled with anhydrite horizontal fracture at 1904.2' filled with gypsum crystals, bottom contains anhydrite inclusions, tight.

1905.7' - 08.7'
3'

Mottled anhydrite and dolomite, anhydrite brown to white crystalline, dolomite, cream to buff brown, microcrystalline, possibly dolomitized micritic and pellet limestone, numerous crenulated, dark grey to black, bituminous partings, tight.

1908.7' - 12'
3.3'

Interbedded dolomite and anhydrite with mottled contacts. Dolomite, cream to buff brown, microcrystalline, dolomitized micritic and pellet limestone, dark grey bituminous partings, tight, scattered oil stain, petroliferous odour.

Coring Times:

10, 11, 10, 10, 14, 11, 10, 12, 12, 12, 11, 11, 9.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

BGP TRIAD DAWSON CREEK P-2 1-2 62° 20'; 118° 15'

CORE #8.

1940' - 1990' Recovered 50'

1940.0' - 45.6'
5.6'

Interbedded microcrystalline and cryptocrystalline dolomite, cream to dark grey brown, argillaceous, dolomitized micritic and pellet limestone, tight.

1945.6' - 55.6'
10.0'

Dolomite, fine microcrystalline to cryptocrystalline, buff to dark brown, argillaceous with thin pyritic shale partings, dolomitized micritic and pellet limestone, tight.

1955.6' - 57.6'
2.0'

Anhydrite, brown to white, massive with minor interbeds of brown microcrystalline dolomite, tight.

1957.6' - 62.4'
2.8'

Dolomite, brown buff, microcrystalline to cryptocrystalline, minor anhydrite inclusions, vertical fracture 1/8" wide running length of interval filled with coarse gypsum crystals, traces fine to medium vuggy porosity, faint oil staining.

1960.4' - 66.1'
5.7'

Interbedded dolomite and anhydrite. Dolomite buff brown microcrystalline to cryptocrystalline, tight.

1966.1' - 70.5'
4.4'

Interbedded shale, dolomite and anhydrite, shale grey to green fissile. Dolomite, buff to brown microcrystalline to cryptocrystalline, tight.

1970.5' - 72.5'
2.0'

Dolomite, grey buff, cryptocrystalline, argillaceous, tight.

1972.5' - 74.4'
1.9'

Interbedded dolomite and anhydrite. Dolomite grey buff cryptocrystalline, slightly argillaceous, tight.

1974.4' - 76.3'
1.9'

Dolomite, buff brown, fine microcrystalline, anhydritic, tight.

1976.3' - 90.0'
13.7'

Interbedded and mottled dolomite and anhydrite. Dolomite buff brown microcrystalline to cryptocrystalline, argillaceous in part, tight.

Coring Times:

10, 15, 11, 11, 15, 12, 10, 14, 11, 13, 12, 12, 10, 11,
11, 17, 14, 15, 11, 11, 10, 17, 14, 12, 13, 14, 17, 18,
17, 18, 13, 12, 15, 12, 12, 17, 13, 16, 15, 14, 12, 14,
13, 15, 14, 15, 17, 15, 14.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

DUP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 113° 15'

CORE #9.

2010' - 2043' Recovered 35'

2010.0' - 12.3'
2.3'

Anhydrite, dark grey brown, massive, tight.

2012.3' - 29.1'
16.8'

Interbedded shale and anhydrite. Shale medium grey green, fissile to subfissile, very dolomitic anhydrite brown massive, tight.

2029.1' - 37.8'
8.7'

Anhydrite, dark grey brown, massive, minor interbeds of grey to green, subfissile shale.

2037.8' - 45.0'
7.2'

Interbedded anhydrite and shale. Shale, grey green, subfissile, very dolomitic and brown crystalline anhydrite.

Coring Times:

10, 15, 13, 14, 15, 13, 12, 14, 14, 15, 13, 13, 14, 13,
14, 14, 14, 11, 14, 15, 15, 15, 14, 26, 16, 10, 11, 15,
16, 19, 16, 13, 13, 13, 14, 15, 25, 24.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

DMP TRIAD DAWSON CREEK P-2 P-2 62° 20'; 113° 15'

CORE #10.

2126' - 2176' Recovered 45'

2126.0' - 37.9'
11.9'

Interbedded dolomite, anhydrite and shale. Dolomite, medium grey, cryptocrystalline argillaceous, anhydritic, tight. Anhydrite brown, crystalline, massive. Shale medium grey green, subfissile, dolomitic to very dolomitic.

2137.9' - 38.7'
.8'

Dolomite, grey green grading to red at base, soft earthy, very argillaceous, light.

2138.7' - 45.2'
7.5'

Dolomite, grey to red, fine crystalline, argillaceous with grey shale partings grading to dolomitic shale at base, light.

2145.2' - 48.2'
3.0'

Dolomite, grey green, argillaceous, cryptocrystalline with coarse halite and gypsum crystals, light.

2148.2' - 55.9'
7.6'

Interbedded grey and red shale grading to argillaceous dolomite, salt crystals and salt filled fractures, light.

2155.8' - 2171.0'
15.2'

Halite, clear with reddish brown tinge, very coarse crystalline, rare argillaceous cryptocrystalline dolomite sections.

Coring Times:

17, 14, 16, 14, 14, 14, 15, 14, 13, 15, 15, 7, 10, 10, 11, 12, 11, 8, 10, 9, 8, 8, 7, 9, 9, 7, 9, 11, 11, 8, 8, 5, 5, 5, 5, 5, 5, 6, 5, 5, 6, 6, 7, 7, 6, 9, 6, 6, 6, 6.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

DMP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 118° 15'

CORE #11.

2502' - 2550' Recovered 38'

2502.0' - 2523.0'
21.0'

Interbedded anhydrite and dolomite, anhydrite dark brown, crystalline massive, trace salt crystals. Dolomite, medium to dark brown, microcrystalline, salty, tight, petroliferous odour. Note: buff brown layer on surface of core from leached salt.

2523.0' - 25.5'
2.5'

Anhydrite, light grey, dolomitic, massive rare brown salty, microcrystalline dolomite bands, vugs on surface from leached salt, tight.

2525.5' - 27.5'
2.0'

Salt, clear, coarse crystalline, bands of brown dolomitic anhydrite, section washed.

2527.5' - 40.0'
12.5'

Interbedded dolomite and anhydrite. Dolomite, medium to dark brown, microcrystalline, salty, anhydritic in part, petroliferous odour, vugs, from leached salt. Anhydrite, dark brown, crystalline massive, dolomitic in part, surface vugs from leached salt, tight.

Coring Times:

13, 13, 20, 14, 14, 11, 15, 15, 12, 22, 13, 14, 14, 13,
14, 15, 13, 12, 13, 14, 13, 22, 20, 15, 17, 17, 11, 14,
19, 16, 13, 12, 12, 13, 13, 13, 13, 14, 8, 6, 7, 6, 6,
6, 6, 8, 7, 8.

-- H. Tatham --

Geologist

NOTE: Bottom 10' of core unrecovered. Assumed
to be salt from coring times.

HT:rf
Dawson Creek
Feb. 1960

DMP TRIAD DAVENCO CREEK P-2 P-2 62° 20'; 118° 15'

COLE #12

2705' - 2731' Recovered 25'

2705' - 2730'
25'

Granite, red, green and dark brown, weathered.
Very coarse interlocking crystals of quartz,
weathered red feldspar and green basic minerals.
Numerous slipage planes dipping 35° with
slickensides.

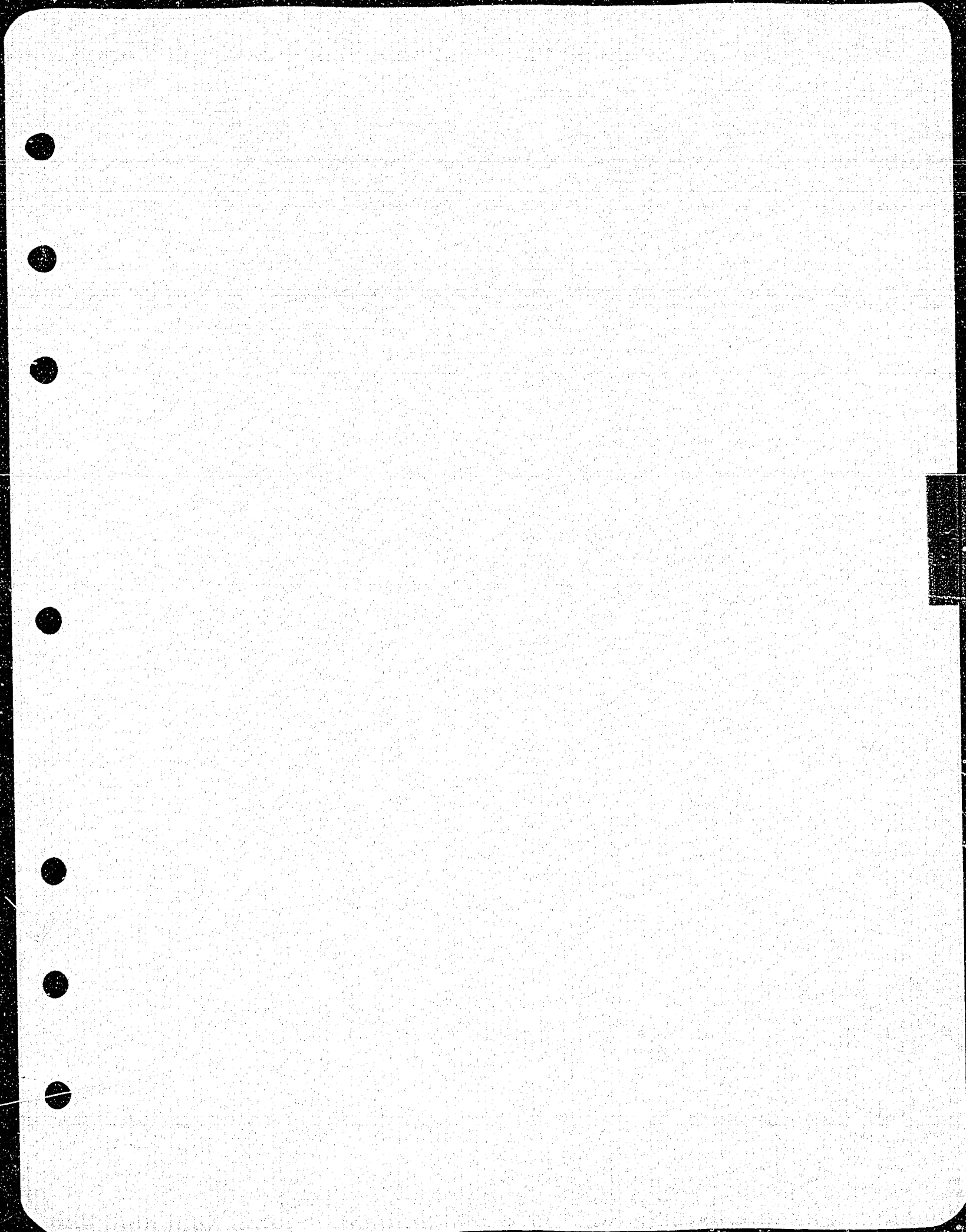
Coring Times:

11, 6, 7, 8, 9, 8, 9, 9, 10, 9, 10, 9, 10, 11, 11,
13, 14, 11, 15, 16, 17, 18, 19, 20, 21, 22.

— H. Tatham —

Geologist

HT:rf
Lawson Creek
Feb. 1960



WEEKLY CHRONOLOGICAL WELL REPORTWell EMP TRIAD DAVIDSON CREEK P-2Location P-2 62° 20'
118° 15'Elev 2086' K.B.District Peace RiverWeek Ending Jan. 12/60Report No. 1

Date	Total Depth	Progress	Days	REMARKS
Jan. 6	55'	55'	1	<u>Spudded 2:30 a.m. Jan. 6, 1960.</u> Drilled from 0'/55' with bit #1, 9", OSC-3 @ 80-90 RPM. 0'-55' Sandstone, buff, fine to coarse, glacial, uncemented, occasional boulders.
Jan. 7	68'	13'	2	Drilled from 55' to 68' with bit #1, 9", OSC-3 @ 120 RPM and all the weight. Loose sand sloughing in hole. Cleaned out 68'. Mixing mud.
Jan. 8	161'	93'	3	Drilled 9" hole from 68'-124' with bit #1 OSC-3 @ 90 RPM and 1600 lbs. Tripped, cleaned to bottom. Drilled from 124'-161' with bit #2 OSC @ 90 RPM and 1600 lbs. Mud Visc. 48. Uncemented glacial sand gravel and boulders.
Jan. 9	396'	235'	4	Drilled from 161'-396' with bit #2 OSC @ 120 RPM and 16000 lbs. Tripped. Cleaning to bottom with bit #3 9", OSC. Mud visc. 120; 160'-390' glacial sand, gravel, boulders.
Jan. 10	434'	38'	5	Plugged bit #3 while cleaning to bottom. Tripped. Cut out bit #3. Plugged bit while cleaning to bottom. Tripped. Plugged bit while cleaning to bottom. Tripped. Ran float 260' above bit. Cleaned to bottom. drilled from 396' to 434' with bit #3, 9" OSC @ 12,000 lbs and 50 RPM. Mud visc. 150. Uncemented coarse glacial sand.
Jan. 11	474'	40'	6	Drilled from 434'-440' with bit #3, OSC @ 16 M and 120 rpm. Tripped clean to bottom. Drilled from 440'-474' with bit #4 OSC @ 18M and 120 rpm. Trip to condition hole. Clean 90' to bottom. Circulate to condition mud. Running 7" surface casing. 430'-474' uncemented glacial sand, gravel and boulders with possible clay. Mud Wt. 10.4; Visc. 104.

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP TRIAD DAVIDSON CREEK P-2

Location P-2 62° 20'
118° 15'

Elev. R.B. 2056'

District Peace River

Week Ending Jan. 12/60

Report No. 1

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Date	Total Depth	Progress	Days	REMARKS
Jan. 12	474'	0'	7	Jan. 12 Jth. 82, 50 20%, 7" casing. Landed at 461.83' W.B. Cemented with 100 sacks + 2% CaCl₂. No returns. Plug down 8:30 a.m. Recemented with 104 sacks + 2% CaCl₂ from 84' to surface through 2" pipe line. Cement to surface 7:00 p.m. W.O.C.

— H. Tatham —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP TRIAD DAVIDSON CREEK P-2 Location P-2 62° 20' Elev 2036' K.B.
113° 15'
 District Peace River Week Ending Jan. 19/60 Report No. 2

Date	Total Depth	Progress	Days	REMARKS
Jan. 13	490'	16'	8	W.O.C. Pressured up to 1000 psi. Drilled casing shoe and pressure up formation. Drilled from 474'-490' with bit #5 6 1/4" OSC-3 @ 18M and 150 rpm. 474'-490' Shale, subfissile, medium grey.
Jan. 14	1583'	1093'	9	Drilled from 490'-1552' with bit #5, 6 1/4" OSC-3 @ 18M and 140 rpm. Tripped. Drilled from 1552'-1583' with bit #6, 6 1/2". OSC-3 @ 18M and 140 rpm. 490'-1025' Shale, medium grey, subfissile. 1025'-1420' Shale, light grey-green, fissile. 1420'-1580' Shale, dark grey brown, fissile.
Jan. 15	1726'	143'	10	Drilled from 1583'-1721' with bit #6 @ 12M and 120 rpm. Lost circulation @ 1572'. Mixed mud and sawdust to regain circulation. Measured out. Pipe tally correction 1721' to 1724'. Ran in with core barrel. Coring Core #1 with Boyles dia. bit @ 8M and 90rpm and 187 gpm. 1580'-1714' Shale, dark grey brown, fissile. 1714'-1724' Limestone, brown-buff skeletal micritic, 50% fine skeletal material, <u>tight</u> .
Jan. 16	1763'	37'	11	Cut Core #1 (1724'-63') Rec. 39'. with dia. Boyles @ 8M and 90 rpm. Core jammed. Tripped. Reamed from 1724'-48' with bit #8 OSC @ 8M and 90 rpm. Lost circulation reaming at 1739'. Believed mud lost to fractured shale @ 700'. 1724'-63' Limestone, dark grey brown, skeletal micritic, <u>tight</u> .
Jan. 17	1778'	15'	12	Reamed from 1748'-63' with bit #8 OSC @ 8M and 90 rpm. Pulled out of hole. Lost circulation. Conditioned mud and sawdust. Regained circulation. Cut core #2 1763'-78'. Core jammed. Pulling out with core.

WEEKLY CHRONOLOGICAL WELL REPORTWell DMP TRIAD DAVIDSON CREEK P-2Location P-2 62° 20'
118° 15'Elev 2056' M.D.District Peace RiverWeek Ending Jan. 19/60Report No 2
page -2-

Date	Total Depth	Progress	Days	REMARKS
Jan. 13	1783'	5'	13	Recovered 15' core #2 1763'-78'. Reamed 1763'-78' with bit #8. OSC @ 8M and 90 rpm. Loss circulation. Hole sloughing. Conditioned mud. Cored from 1778'-83' with bit #7 Boyles dia. @ 8M and 90 rpm. Mud wt. 9.0; visc. 67; W.L. 7.2. Limestone, dark gray brown, skeletal micritic, <u>scattered oil stain and bleeding oil, tight.</u>
Jan. 19	1835'	52'	14	Cut core #3 1778'-98' Rec. 20' with bit #7 Boyles 5" dia. @ 8M and 90 rpm. 217 gpm. Core jammed. Tripped. Cleaned rat hole. Cut Core #4 1798'-1835'; Rec. 37' with Boyles dia. @ 8M 90 rpm 217 gpm. Tripped. Reaming at 180' with bit #8 RR. OSC @ 10M and 120 rpm. Mud wt. 9.0; Visc. 69; W.L. 6.0. 1778'-1835' Limestone, brown, pellet, skeletal and micritic, <u>scattered oil staining, tight.</u>

— H. Tatham —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP TRIAD DAVIDSON CHIEFY P-2 Location P-2 62° 20' Elev 2066' K.B.
118° 15'
District Peace River Week Ending Jan. 26/60 Report No. 3

Date	Total Depth	Program	Days	REMARKS
Jan. 20	1900'	65'	15	Reamed from 1509'-1835' with bit RR.8 at 8M and 120 rpm. Tripped. Cut core #5 1835'-50'; Rec. 15'. Core jammed. Cut Core #6 1850'-1900'; Rec. 50'. Cores 5 & 6 cut with bit 7 Boyles dia. @ 8M, 90 rpm 220 gpm. Mud Wt. 9.2; Visc. 62; W.L. 6.2 1835'-50' Limestone, brown pellet and micrite, scattered oil stain, <u>tight</u> .
Jan. 21	1913'	13'	16	Reamed from 1835'-1900' with bit 7 RR OSC at 10M and 120 rpm. Tripped. Cores core #7 (1900'-13') Rec. 12' with dia. Boyles @ 8M and 90 rpm. Mud Viscosity went up. Reamed from 1900'-13' with bit #9 M3N @ 10-20M 120 rpm. Conditioned mud for anhydrite. Drilling. Mud Wt. 8.9; Visc. 43; W.L. 13.2; 1850'-70' Limestone, pellet and micrite, scattered oil stain, <u>tight</u> . 1870'-1913' Dolomite, brown, anhydritic, <u>tight</u> .
Jan. 22	1940'	27'	17	Drilled from 1913'-40' with bit #9 @ 10M and 90 rpm. Tripped. Ran in with core barrel, tight hole. Pulled out, ran in with bit. Lost circulation. Mixed mud, regained circ. and condition mud for anhydrite. Mud Wt. 8.9; Visc. 42; W.L. 9.0; PL. 12. 1913' Dolomite brown, anhydritic, <u>tight</u> .
Jan. 23	1990'	50'	18	Mix mud clean 360' to bottom. Pull out. Cut core #8 1940'-90'. Rec. 50' with bit dia. 1 Boyles @ 8M 90 rpm. 156 gpm. Tripped Reamed from 1940'-42' with bit 9 RR M4N @ 10M and 90 rpm. Mud Wt. 9.0; Visc. 90; W.L. 9.4. ph. 12.0. 1940'-90' Interbedded dolomite and anhydrite Dolomite, buff brown, microcrystalline to cryptocrystalline, <u>tight</u> .
Jan. 24	2032'	42'	19	Reamed from 1942'-90' with bit 9RR M4N @ 10M 90 rpm. Drilled from 1990'-2010' with bit 9RR M4N @ 18M and 90 rpm. Tripped. Coring core #9 from 2010' with Boyles dia. @ 10M and 90 rpm. and 150 gpm. Mud Wt. 8.9; Visc. 65; W.L. 90; ph. 12. 1990'-2010' Interbedded dolomite and anhydrite as above.

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP TRIAD DAVIDSON CREEK P-2

Location P-2 62° 20';
113° 15'

Elev 2086' I.B.

District Fence River

Week Ending Jan. 26/60

Report No. 3
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Date	Total Depth	Progress	Days	REMARKS
Jan. 25	2065'	33'	20	Core #9 2010'-48' Rec. 35' with bit Boyles dia. @ 90 rpm and 10W, 140 gpm. Roamed 2010'-48' with bit 10 M/N @ 8M and 90 rpm. Lost circulation. Mixed mud regained circ. Drilled from 2048'-65' with bit 10 M/N @ 16M and 90 rpm. Mud Wt. 8.2; Visc. 10.0; W.L. 12.6. 2010'-60' Interbedded anhydrite, shale and dolomite, <u>tight</u> .
Jan. 26	2142'	77'	21	Drilled from 2065'-2126' with bit #10 M/N @ 8M and 90 rpm. Tripped. Coring core #10 from 2126' with Boyles dia. @ 8M and 90 rpm, 156 gpm. Mud Wt. 9.3; Visc. 70; W.L. 9.2. 2060'-2120' Interbedded shale, dolomite and anhydrite, shale, grey green, sub-fissile, very dolomitic. Dolomite buff brown, microcrystalline to cryptocrystalline, <u>tight</u> .

— H. Tatham —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP TRIAD DAVIDSON CREEK P-2Location P-2 62° 20';
118° 15'Elev 2086' K.B.District Peace RiverWeek Ending Feb. 2/60Report No 4

Date	Total Depth	Progress	Days	REMARKS
Jan. 27	2176'	33'	22	Cut core #10 2126'-76'. Rec. 55' with Boyles dia. bit @ 8M, 90 rpm and 160 gpm. Reamed 2126'-76' with bit 11 M/LN @ 8M and 90 rpm. Tripped. Circulate to condition hole to run E-log. Ran E-log. Mud Wt. 9.4; Visc. 10.4; W.L. 16.4; ph. 12. 2120'-2156' Red and grey shale and dolomites, <u>light</u> . 2156'-76' Salt.
Jan. 28	2390'	214'	23	Change mud to Gyp base. Drilled 2176'-2390' with bit 11 M/LN @ 18M and 90 rpm. Lost circulation @ 1831'. Mud Wt. 9.0; Visc. 57; W.L. 7.3; ph. 8.0. 2176'-2390' Salt from drilling times.
Jan. 29	2476'	86'	24	Drilled from 2390'-2430' with bit 11 M/LN @ 12M and 90 rpm. Tripped. Drilled from 2430'-2476' with bit 12 WTR @ 20M and 90rpm. Mud Wt. 9.0; Visc. 59; W.L. 7.0; ph. 8.0. 2390'-2470' Interbedded dolomite and anhydrite. Dolomite red to buff-brown, crypto-crystalline to fine crystalline, anhydritic <u>light</u> .
Jan. 30	2550'	74'	25	Drilled from 2476'-78' with bit 12 WTR. Tripped. Drilled from 2478'-2502' with bit 13 OWS @ 90 rpm. and 20M. Tripped. Cut core #11 (2502'-50'). Recovered 38'. Mud Wt. 9.0; Visc. 59; W.L. 5.6; ph. 7.0. Interbedded dolomite, anhydrite and salt.
Jan. 31	2605'	55'	26	Reamed 2502'-50' with bit RR 13 OWS @ 10M & 90 rpm. Drilled from 2550'-2605' with bit R.F. 13 OWS @ 18M and 90 rpm. Lost circulation @ 2571'. Mud Wt. 9.0; Visc. 45; W.L. 3.6; Interbedded dolomite, anhydritic and salt.

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP TRIAD DAVIDSON CREEK P-2Location P-2 62° 20';
118° 15'.Elev. 2086' K.B.District Peace RiverWeek Ending Feb. 2, 1960 Report No. 4

page-2-

Date	Total Depth	Progress	Days	REMARKS
Feb. 1	2682'	77'	27	Drilled from 2605'-32' with bit 14 OWV @ 16M and 90 rpm. Lost circulation @ 2644'. Mud Wt. 8.9; Visc. 42; W.L. 7.0. Interbedded, red and brown microcrystalline dolomite and anhydrite, <u>tight</u> .
Feb. 2	2737' F.T.D.	55'	28	Drilled from 2682'-2705' with bit 14 OWV @ 16M and 90 rpm. Tripped. Cut core 12 2705'-31'. Rec. 25 with Boyles dia. @ 10M 90 rpm, 150 gpm. Reamed 2705'-31', with bit 15 W7R @ 8M and 90 rpm. Drilled from 2731'-36' with bit 15 W7R @ 18M and 90 rpm. Mud Wt. 9.4; Visc. 47; W.L. 8.0. 2680'-2700' Interbedded dolomite and anhydrite. 2700'-2737' Granite.

— H. Tatham —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well DMP TRIAD DAVIDSON CREEK P-2 Location P-2 62° 20' N; 118° 15' W Elev N.B. 2086'
 District Peace River Week Ending Feb. 9/60 Report No. 5

Date	Total Depth	Program	Days	REMARKS
Feb. 3	2737'	0	29	Ran Laterolog 2734' - 462' " Microlaterolog 2732' - 1400' " Gamma Ray Neutron 2736' - 100' " Sonic Log 2730' - 20'
Feb. 4	2737'	0	30	Plug #1; 2737'-2637'; C-20 + 2% CaCl ₂ . Plug #2; 1750'-1650'; C-20 + 2% CaCl ₂ . Felt plug #2 @ 1748'. Plug #3; 400' - 500'; C-20 + 2% CaCl ₂ .
Feb. 5	2737'	0	31	Felt plug #3 @ 398' Cut off casing. <u>Fig Released 4 p.m. February 5, 1960.</u>

— H. Tatham —
 Geologist

DMP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 118° 15'

Weekly Geological Well Report #1 for week ending 3 a.m. January 12, 1960

K.S. 2086'

Depth: : 474'

Drilled : 474' of 9" surface hole

Total Footage for Week : 474'

Casing : Ran 12 jts. range 2, 20 lb. 7" casing. Casing landed at 461.83'. Cemented with 100 sacks plus 2% CaCl₂. No returns. Recemented with 104 sacks plus 4% CaCl₂ from 84' to surface through a 2" pipe line.

Remarks : Drilling has been limited to uncemented glacial sand, pebbles and boulders of granitic origin. The thick section of interbedded sands and gravels suggests a river channel or glacial lake shore in Pleistocene time. The bottom 20 or 30 feet of the section may consist of a dark grey clay. Although no clay was found in the samples, the last bit was balled up with it. Drilling times and discoloration of mud indicates at least 20 feet of clay.

-- H. Tatham --

Geologist

HT:rf
Dawson Creek
Jan. 1960

DUP TRIAD DAWSON CREEK P-2 P-2 62° 20'; 111° 15'

#2

Weekly Geological Well Report for Week Ending 8 a.m. January 19, 1960.

X.L. 2036'

Depth : 1835'

Drilled : 474' to 1724' 125' of 6 1/2" hole.

Cores : Core #1. 1724'-43' Recovered 38'
Core #2. 1765'-78' Recovered 14'
Core #3. 1773'-98' Recovered 20'
Core #4. 1798'-1835' Recovered 37'.

Total Footage for Week : 1361'

Markers : Lower Cretaceous shale 474' (+1612')
Upper Devonian shale 1025' (+1061')
Middle Devonian shale 1420' (+ 644')
Middle Devonian carbonate 1714' (+ 372')

Reservoirs : The Middle Devonian carbonate has been essentially tight. Scattered oil staining and bleeding oil have been encountered in isolated vugs and partially filled fractures. Most fractures and leached fossil casts are plugged with calcite crystals.

Remarks : Stratigraphy - Normal Cretaceous shales overlie about 400 feet of light grey-green Upper Devonian shale. The Middle Devonian consists of about 300 feet of dark grey-brown, bituminous looking shale overlying a sequence of skeletal, pellet and lithographic limestones.
Structure - The Middle Devonian carbonate was encountered approximately 100 feet higher than was expected. Due to the poor control this is not indicative of structure.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Jan. 1960

DMP TRIAD DAVIDSON CREEK P-2 P-2 62° 20'; 118° 15'

Weekly Geological Well Report #3 for Week Ending 8 a.m. January 26, 1960.

L.B. 2036'

Depth : 2142' Coring

Drilled : from 1913' to 1940'
" 1990' to 2010'
" 2042' to 2126'

Cores : Core #5 1835' to 1850' Recovered 15'
Core #6 1850' to 1900' Recovered 50'
Core #7 1900' to 1913' Recovered 12'
Core #8 1940' to 1990' Recovered 50'
Core #9 2118' to 2042' Recovered 35'

Total Footage for Week : 307'

Reservoirs : Scattered oil staining was found in 90 foot section of tight secondary dolomites and anhydrite.

Remarks : a. Stratigraphy: Ninety feet of dolomitized micrite and pellet limestones with interbeds of massive anhydrite were encountered overlying a sequence of primary dolomites, anhydrite and shales. The shales in this section are gray to green and very dolomitic.

b. Structure: The well continues to run high to expectations. Unless the Pre Devonian section is very thick, total depth should be at least 100 feet less than was estimated.

— E. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

Weekly Geological Well Report #1 for Week Ending 8 a.m. February 2, 1960

R.S. 2086'

Depth : 2737' F.T.D. Circulating to run logs.

Drilled : from 2176' to 2502'
" 2542' to 2705'
" 2731' to 2737'

Cores : Core #10 (2126'-2176') Rec. 45'
Core #11 (2502'-2550') Rec. 38'
Core #12 (2705'-2731') Rec. 25'

Total Footage for Week : 595'

Markers : 2700' (- 614') PreCambrian

Logs : Electric Log 461'-2165'

Reservoirs : Thin interbeds of fine microcrystalline dolomite were encountered from 2440' to 2500'. Scattered traces of fine intercrystalline porosity were noted, however since this is an evaporitic section the porosity may be due to leached salt. Log evaluation will decide if a test is warranted.

Remarks : a) Stratigraphy: A two hundred and fifty-foot salt section overlies 300 feet of interbedded primary dolomites, salt, and anhydrite. The granite is weathered and offered no drilling break at the top.
b) Structure: Basement was encountered approximately 300' lower than was expected. Numerous slippage planes dipping about 35° were noted in the granite core. With the aid of slickensides present on the slippage planes, the relative position of the proposed northwest southeast hinge line may be determined.

— H. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960

LMP TRIAD DAWSON CREEK P-2 P-2 62° 20'; 118° 15'

K.P. 2036'

Weekly Geological Well Report #1 for Week Ending February 9, 1960

Depth : 2737' Status: Dry and abandoned

Logs : Fan Schlumberger Laterolog 2734' - 462'
" " Microlaterolog 2732' - 1400'
" " Gamma Ray Neutron 2736' - 100'
" " Sonic Log 2730' - 20'

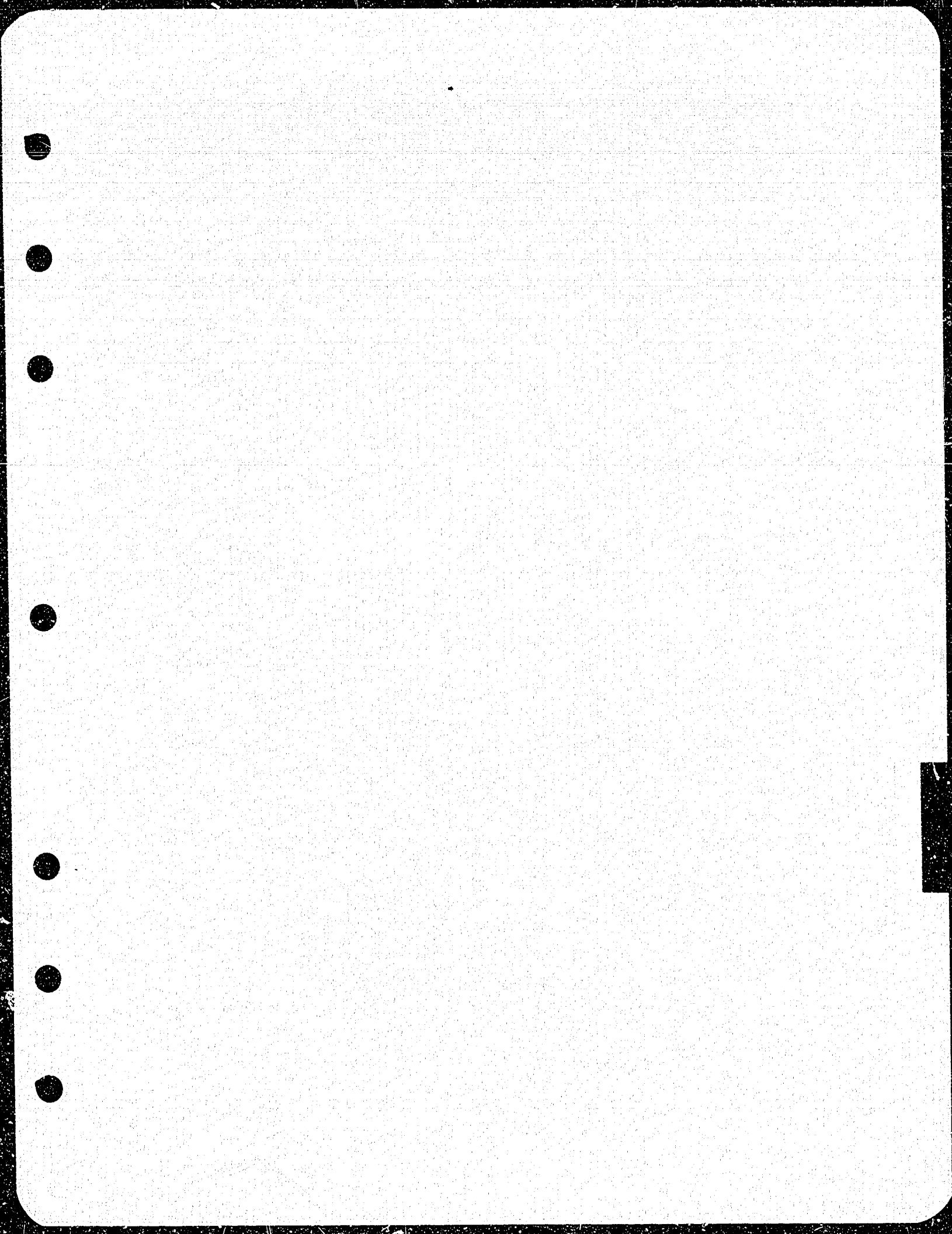
Plugs : Ran abandonment plug #1; 2737'-2637'
C-70 + 2% CaCl₂.
Ran abandonment plug #2; 1750'-1650'
C-20 + 2% CaCl₂.
Felt plug #2 @ 2722'. 1646' ✓
Ran plug #3; 500'-400'; c-20 + 2%
CaCl₂. Felt plug #3 @ 398'.

Rig released 4 p.m. February 5, 1960.

— E. Tatham —

Geologist

HT:rf
Dawson Creek
Feb. 1960



DAILY LOG RECORD

WELL NAME: LINDEN GREEN # 2

DATE: 1-2-20

TIME: 11:30

WISCONSIN STATE UNIVERSITY

DATE	TIME	WELL NAME	WELL TYPE	WELL DEPTH	WELL STATUS	WELL LOCATION	WELL COMMENTS
JAN 7	68	3900					surface near some stringing
JAN 8	161	1900	55				beginning of oil sand, road nearby
JAN 9	396	800	10				drilling surface near in sand, gravel
JAN 10	434	2000	75				beginning of oil sand, gravel
JAN 11	474	100	20				beginning of oil sand, gravel
JAN 12	490	200					beginning of oil sand, gravel
JAN 13	1583						beginning of oil sand, gravel
JAN 14	1726	2800	100				beginning of oil sand, gravel
JAN 15	1763	2200					beginning of oil sand, gravel
JAN 16	1770	3200	100				beginning of oil sand, gravel
JAN 17	1783	3700	15				beginning of oil sand, gravel
JAN 18	1835						beginning of oil sand, gravel
JAN 19	1900	100	25				beginning of oil sand, gravel
JAN 20	1913	500	625	25			beginning of oil sand, gravel
JAN 21	1940	3300	450	15			beginning of oil sand, gravel
JAN 22	1970	2100	50	50			beginning of oil sand, gravel
JAN 23	2000	2500	50	50			beginning of oil sand, gravel
JAN 24	2000	2500	50	50			beginning of oil sand, gravel
JAN 25	2000	2500	50	50			beginning of oil sand, gravel
JAN 26	2000	2500	50	50			beginning of oil sand, gravel
JAN 27	2000	2500	50	50			beginning of oil sand, gravel
JAN 28	2000	2500	50	50			beginning of oil sand, gravel
JAN 29	2000	2500	50	50			beginning of oil sand, gravel
JAN 30	2000	2500	50	50			beginning of oil sand, gravel
JAN 31	2000	2500	50	50			beginning of oil sand, gravel
FEB 1	2000	2500	50	50			beginning of oil sand, gravel
FEB 2	2000	2500	50	50			beginning of oil sand, gravel

BIT RECORD

WELL IMP TRAP THURSON BRN #2 LOCATION T2 65°20' 118°15'

CONTRACTOR

FTD REACHED

DATE SPUEDDED JAN 6-1960

NO.	SIZE	MAKE	TYPE	DEPTH INDEPTHOOT	FTG.	HRS.	WEIGHT	RPM.	CPM.	SERIAL	FORMATION	REMARKS
1	9"	HTC	OSC 3	0	124	12 1/2	16	1	27	9700	SP. SAND	CAUTION - SEE REMARKS
2	9"	HTC	OSC	124	396	17 1/2	16 M	120	271	9702	"	Good
3	9"	HTC	OSC	396	440	11 1/4	16 M	120	271	9704	"	Good
4	9"	HTC	OSC	440	1771	1 1/2	18 M	120	271	9706	"	Good
5	6 1/4"	HTC	OSC 3	1774	1552	18 1/4	10 M	140	271	68453	SHALE	Good
6	6 1/4"	HTC	OSC 3	1552	1724	4 1/2	10 M	140	271	68454	"	Good
7	6"	Boyles	Y	1724	1763	39	8 M	90	254	70331	"	Good
8	6 1/4"	HTC	OSC	1763	1778	15	8 M	90	187	72-59	LIME STONE	Good
9	6 1/4"	HTC	OSC	1778	1790	20	8 M	90	271	70331	"	Good
10	6 1/4"	Boyles	Y	1790	1835	37	8 M	90	271	72-59	LIME STONE	Good
11	6 1/4"	HTC	OSC	1835	1850	15	10 M	120	271	70331	"	Good
12	6 1/4"	Boyles	Y	1850	1900	50	8 M	90	271	72-59	LIME STONE	Good
13	6 1/4"	HTC	OSC	1900	1900	13	10 M	120	240	69238	LIME STONE	Good
14	6 1/4"	Boyles	Y	1900	1913	3	8 M	90	140	72-59	LIME STONE	Good
15	6 1/4"	Boyles	Y	1913	1940	27	10 M	90	200	390923	LIME STONE	Good
16	6 1/4"	Boyles	Y	1940	1990	50	10 M	90	200	390923	LIME STONE	Good
17	6 1/4"	Boyles	Y	1990	2010	20	8 M	90	200	390923	LIME STONE	Good
18	6 1/4"	Boyles	Y	2010	2048	38	10 M	90	200	390923	LIME STONE	Good
19	6 1/4"	Boyles	Y	2048	2126	78	10 M	90	200	390923	LIME STONE	Good
20	6 1/4"	Boyles	Y	2126	2176	50	8 M	90	150	72-59	SHALE	Good
21	6 1/4"	Boyles	Y	2176	2330	254	18 M	90	200	390923	LIME STONE	Good
22	6 1/4"	Boyles	Y	2330	2378	48	15	20 M	200	70331	"	Good
23	6 1/4"	Boyles	Y	2378	2502	24	10 M	90	200	70331	"	Good
24	6 1/4"	Boyles	Y	2502	2500	48	10 M	90	165	72-59	SHALE	Good

BIT RECORD

WELL INR. TRIAD DAVIDSON CREEK RELOCATION P. 2 62° 20' 18" S. CONTRACTOR WAREHAM DRILLING
DATE SPUDDED JAN 6, 1960 F.T.D. 2737 F.T.D. REACHED FEB 2 / 60

[illegible]

SURVEY:

WELL NAME W-2160-Durand-Creek

LOCATION: E2 - 8222 - UB - 10

[illegible]

Total Contract Timehrs. Total Company Timehrs. Toolpusher TJC Approved by

IMPERIAL TRNG. DAVIDSON EX # P.2
 LSD. SEC. TWN. RGE. W. Contractor WARDEN DAY #5 Type Rig NAT 30 Month 2 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.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation																	
		TD. 2737										2737																													
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			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													
No. 2		FELT FOR PLUG #2 @ 2:30 AM																								FELT FOR PLUG #3 @ 11:50 AM															
		TOP OF PLUG @ 1646																								TOP OF PLUG. 398'															
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																
		ABANDONMENT PLUG #3.												FELT FOR PLUG #3 @ 11:50 AM.																											
		RAN 20 SKS. CEMENT + 270 CALCR.												TOP OF PLUG. 398'																											
		TO CEMENT INTERVAL. 500 TO 400'																																							
		DISPLACED WITH 2.96 + 1/2 BBL.																																							
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.																
		DOWN AT 3:30 AM.																																							
DETAIL OF OPERATIONS AND REMARKS		Rig Serv												W.O.C. (PLUG #3)												TEARING OUT															
		W.O.C. & RAN IN Hole												FELT PLUG - HOIST 1/2												TOP OF CASING TO TOP TABLE															
		FELT PLUG #3 & Hoist												DOWN DRILL PIPE												12-23'															
		Running Plug #3												TEAR OUT CONTROLS																											
		Laying down 20 stds Pipe												PUT OFF CASING.																											
		CLEAN OUT CEMENTING												RIG RELEASE																											
		RANTS & MUD TANK												4 PM																											
		B W.O.C.																																							
Driller		Joe Riley										Driller		A. COUSINEAU										Driller		L. M. Cullen															

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

Approved by

Imperial Oil Ltd. *Davidson* SEC. TWN. RGE. W. Contractor *Wardman Drilling* Type Rig *NAT 30* Month *2* Day *3* 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								
		<i>T.O. 2737</i>										<i>T.O. 2737</i>										<i>T.O. 2736</i>										
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.									
		<i>41</i>	<i>1</i>	<i>28</i>		<i>207.56</i>				<i>41</i>	<i>1</i>	<i>29</i>		<i>207.56</i>																		
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								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					
									Drilled	Reamed								Drilled	Reamed								Drilled	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										
SLUSH PUMP RECORD		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off								
No. 1		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. 2		On Line		Circulating								On Line		Circulating								On Line		Circulating								
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
		<i>ABANDONMENT PLUG #1</i>										<i>PLUG #2</i>																				
		<i>RAN 20 SACK CEMENT + 27 CMC² TO CEMENT INTERVAL 2737-2637</i>										<i>RAN 20 SACK CEMENT + 27 CMC² TO CEMENT INTERVAL 1750-1650</i>																				
		<i>4 1/2" FUEL IN TANK</i>										<i>DISPLACED W/ 19.5 + 1 BBL³ MUD</i>										<i>DISPLACED W/ 12.2 BBL³ + 1 BBL MUD DOWN AT 630 PM</i>										
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		<i>Logging w/ SCHUMBERGER</i>										<i>Logging w/ SCHUMBERGER</i>										<i>Run Plug #1</i>										
		<i>Log SERV</i>										<i>TEAR OUT LOGG. TRUCK</i>										<i>PULL OUT 16 STDS</i>										
		<i>Loggng w/ SCHUMBERGER 12⁰⁰ 8⁰⁰</i>										<i>LAY DOWN PCS</i>										<i>CIRC. Run Plug #2</i>										
		<i>PICK UP 8 SINGLES</i>										<i>RUN IN HOLE OPEN END</i>										<i>PULL OUT 5 STDS BREAK CIRC</i>										
		<i>MEASURE IN</i>										<i>MEASURE IN</i>										<i>PULL OUT 7 STDS</i>										
		<i>8 HRS</i>										<i>8 HRS</i>										<i>9 LAY DOWN 18 STDS</i>										
																						<i>W.D.C. #2 Plug</i>										
																						<i>9⁰⁰ 12⁰⁰</i>										
Driller		<i>C. Riley</i>										Driller										<i>L. McCallum</i>										

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

Approved by

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

Total Contract Timehrs. Total Company Timehrs. Toolpusher 12/15 App'oved by

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

IMPERIAL TAND. Davidson CK. P.2 LSD. SEC. TWN. RGE. W. Contractor LARDEAN DR. 4 Type Rig NRT 30 Month 1 Day 30 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				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation					
		2515	2550	35	5							2550	2550	6 1/4								2550	2577	27	6 1/4	Dolomite & SALT.					
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
		3 1/2	37		Down	207.56	56.70			3 1/2		38	-	29.07	207.56				3 1/2		38	1	up 7'	207.56							
		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	4 1/4	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 1/4	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 1/4	2 1/4	207.56	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				
		ARI	D	8 1/4	7 1/4	8 1/4	2550	10	375		ARI	OWS	1 1/2	1 1/2	2 1/4		10		24		ARI	OWS	1 1/2	1 1/2	2 1/4		10		24		
		Bit Serial No. 7259 Table R.P.M. 90										Bit Serial No. 71153 Table R.P.M. 70										Bit Serial No. 71153 Table R.P.M. 90									
		Jet or Conventional - D Nozzle Size										Jet or Conventional - COND Nozzle Size 60										Jet or Conventional - COND Nozzle Size 60									
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												
		7 1/4		600	10	44	5 1/2					300	10	52	5 1/2		5 1/4			300	10	52	5 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						
											3:30	60	9.3	5	5	My-Lo-Gel - 150 "				4:30	58	9.1	4.6	5	200 " MY-LO-GEL						
																Plaster - 100 "									150 " PLASTER PARIS						
																Gel - 400 "				6:30	42	9.2			25 " PRESS						
																									1000 " GEL						
																				11	45	9.0	4.2		10 SX SAWDUST SALT 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.						
		2515	2550	35			EASTLAND				25			38	11	EASTLAND															
DETAIL OF OPERATIONS AND REMARKS		CORING. Blow NEARLY PROPTOTCO										REAMING 2550-2554 RIG SERVICE PULL OUT CORE NO 11 REC CORE NO 11 STAND BACK CORE BBL SLIP 40 FT DRAG LINK CUT SO RUN IN W/ R.T. BREAK CIRC BEAM 5 IN RAT HOLE 6 1/4 WORK ON PUMP MIX MUD										Rig SERV. REAM RATHOLE DRILLING LOSING MUD - MAX MUD DRILL - Lost 8" mud MIX Lost CIRC MATERIAL DRILL									
		Driller: Joe Ruby										Driller: Al Loucine										Driller: L. M. Callum									

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 Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Imperial 17210 DAVIDSON EX R2 SEC. TWN. RGE. W. Contractor WARDEN DAILY #5 Type Rig NAT 30 Month 1 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		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation					
		2445	2476	31	6 1/4	DOLIMITE						2476	2502	26	6 1/4	DOLIMITE SHALE						2502	2515	13	5	DOLIMITE					
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
		3 1/2	37	-	16 1/4	207.56				3 1/2		37	1	21 1/2	207.56				3 1/2		36	1	2' up	207.56	56: 70						
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	4 3/4	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING					
DATA		40 m				10.5 m				DATA		42 m				10.5 m				DATA		42 m				10.5 m					
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	WTR	5:30 PM		14		20 m	47				12	WTR	5:27 PM	4:27 AM	15	2478	20 m	48			KP1	5	8 PM		75			340	
		Bit Serial No. 72044				Table R.P.M. 90						Bit Serial No. 72044 - 71153				Table R.P.M. 90						Bit Serial No. 72-59				Table R.P.M. 90					
		Jet or Conventional - CONN				Nozzle Size C.O						Jet or Conventional - CONN				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		7:34		300	10	52	5 1/2	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								
		12:30	59	9.0	6.4	8.0			9:00		60	9.0	6.2	7.0	Plaster - 150 lbs		9:30		56	9.0	4.8	7.5	150 my-lo-geh								
		5:30	57	9.0	6.4	8.0			1:00		70	9.0	6.2	7.0	my-lo-geh - 150 lbs																
		7:00	59	9.0	7.0	8.0			3:00		65	9.0	6.0	7.0	Preservative - 25 lbs		11:00		61	9.0	5.6	7.0									
		FUEL IN TANK		5'7"																											
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.										
																2476						EAST 1200									
DETAIL OF OPERATIONS AND REMARKS		From	To	Hrs.	From		To	Hrs.	From		To	Hrs.																			
		12:00	12:15	1/4	RIG SERVICE		8:00	8:15	1/4	MIX MUD		4:00	4:30	1/2																	
		12:15	8:00	7 3/4	DRILLING 6 1/4 HOLE		8:15	9:00	1	Pull out To 1850		4:30	5:00	1/2																	
					CIRC SAMPLE @ 2478		9:00	9:45	1/2	SURVEY		5:00	5:15	1/4																	
					PULLED OUT TO 1750 PROZ		9:45	10:00	1/4	FINISH OUT TO CORE		5:15	6:00	3/4																	
					SURVEY					Pick up C.B		6:00	6:15	1/4																	
					FINISH PULLING OUT		11:15	12:00	3/4	Run in w/ C.B		6:15	7:15	1																	
					RUN IN HOLE		12:00	1:00	1	BREAK CIRC - CIRC C.B		7:15	7:30	1/4																	
					BREAK CIRC CLEAN TO BTM		1:00	1:15	1/4	WORK ON PUMP		7:30	8:00	1/2																	
					DRILLING 6 1/4 HOLE		1:15	3:00	1 1/2	CORING		8:00	12:00	4																	
					MIX MUD TO CORE		3:00 - 4:00	1																							
Driller		Joe Riley				Driller		L. McCallum				Driller		L. McCallum																	

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

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

#22

Form 34402 (250 bks-3-59) *TRIP DIVISION EX 22*
 LSD *1* SEC *1* TWN *1* RGE *1* W *1* Contractor *WILLIAM DELAY #5* Type Rig *WAT-30* Month *1* Day *27* 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				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				
2176		2176	-	6 1/4					2176		2176	-	6 1/4					2176		2250	7 1/4	6	SALT							
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					
3 1/2		32		14 1/2	207.56				3 1/2		32		14 1/2	207.56				3 1/2		31	1	4P30	207.56							
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	4 3/4		207.56	DRILLING STRING				COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING				
DATA		59 M. 10.5 M.								DATA		39 M. 18.5 M.								DATA		39 M. 10.5 M.								
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	
											11AR		M4N									11RR		M4N	8 1/2 PM		6 1/4	18 M. 7 1/2	50	
SURVEYS		Table R.P.M.								Table R.P.M.								Table R.P.M.												
SLUSH PUMP RECORD		No. 1								No. 2								No. 3												
MUD RECORD		4 1/2" FUEL IN TANK																												
CORING																														
DETAIL OF OPERATIONS AND REMARKS		REG UP SCHUMBERGER 1200 100 1 LOGGING 100 500 4 TIEP OUT SCHUMBERGER 500 530 1/2 W.O. Mud To CHANGE OVER 530 800 2 1/2								WAIT ON MUD TO CHANGE OVER TO GYP BASE 800 1200 4 RUN IN HOLE TO CHANGE 1200 200 2 DISPLACE MUD IN HOLE & TANKS 200 400 2 TO CHANGE OVER. MIXING PLASTER. 8 HRS								CHANGE OVER TO GYP BASE MUD 700 800 4 DRILLING 800 1200 4												
Driller		Joe Riley								Driller								M. Callan												

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 _____ Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

#21

 IMPERIAL TARIQ. DAVIDSON EXP. 2 LSD. SEC. TWN. RGE. W. Contractor WARDEN DRILL Type Rig ALAT. 30 Month 1 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																																			
		2126	2142	16	5	ANNUHARITE + LIME											2142	2176	34	5	LIME + SALT											2126	2176	50	6 1/4	LIME - SALT																																			
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																		
		3 1/2	30	1	14'	207.56	56.70										3 1/2	31	-	40'	207.56	56.70										3 1/2	32	-	40'	207.56	56.70																																		
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	4 3/4		207.56	DRILLING STRING										COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING										COLLAR		7	4 3/4	2 1/4	207.56	DRILLING STRING																																	
DATA		39,000										10,000					DATA		39,000										10,000					DATA		39 m.										10,5 m.																									
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																																										
		1 R.R.	7	4 3/4	4	8,000	16		Reamed				1 R.R.	7	4 3/4	8 1/2	8,000	2176	8,000					11	MYN	4 3/4	7 1/2	2 1/4	2176	8 m.	50																																								
SURVEYS		Bit Serial No. 72-59 Table R.P.M. 90										Bit Serial No. 72-59 - Table R.P.M. 90										Bit Serial No. 392604 Table R.P.M. 90																																																	
SLUSH PUMP RECORD		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Jet or Conventional - CONN. Nozzle Size																																																	
		Kind at Ft. Deg. off										Kind at Ft. Deg. off										Kind at Ft. Deg. off																																																	
HOURS		On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size										HOURS										On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size										HOURS										On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size																													
		4 1/4 1000 10 40 5 1/2										4 1/4 1000 10 40 5 1/2										2 3/4 3 300 10 52 5 1/2										2 3/4 3 300 10 52 5 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 00	74	9.0	9.0	12												69	9.2	9.6	11	Caustic - 50 #											5 00	70	9.4	10	12	150 # CAUSTIC																																	
		7 00	70	9.0	9.2	12												70	9.2	9.4	10	Spersene - 100 #											7 00	100	9.4	13.4	12	150 # SPERSENE																																	
		12 00	70	9.0	9.2	12																											9 00	104	9.4	13.6	12																																		
		5 1/4" FUEL IN TANKS																																																																					
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.																																		
		2126	2142	16		10	EASTLAND											2142	2176	34	45	10	EASTLAND																																																
DETAIL OF OPERATIONS AND REMARKS		Rig SERV + W.O. Pump										RIG SERVICE										Rig SERV.																																																	
		Hoist										DIAMOND CORING										REAM RATHOLE																																																	
		Pick up CORE Bbl										PULL OUT W/ CORE NO 10										CIRC + CHECK MUD FOR SALT																																																	
		Run in Hole + BROKE CIR										REL CORE NO 10										Blow KELLY + RATHOLE																																																	
		Work to BOTTOM										STAND BACK CORE BBL										PULL OUT Log																																																	
		4 CORING										Run in Hole w/ bit										Rig up SCHLUMBERLAY																																																	
		8 HRS										BREAK CIRC REAM To TOP OF RAT HOLE																																																											
Driller		Driller										Driller										Driller																																																	

 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.
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 YES ☒ NO

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

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

120

DAVIDSON ER 2.2
 IMPERIAL TRAD. LSD. SEC. TWN. RGE. W. Contractor W. GARDEN DRAY Type Rig NAT 30 Month 1 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		From		To		Hole Made		Hole Size		Formation		From		To		Hole Made		Hole Size		Formation													
2056		2065		9		6 1/4		SAND		2065		2097		32		6 1/4		LIME TANHYDRITE		2097		2126		29		6 1/4		LIME TANHYDRITE															
3 1/2		30		-		6 1/4		207.56		3 1/2		30		1		3 1/2		207.56		3 1/2		30		2		UP 4'		207.56															
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		7		4 3/4		207.56		DRILLING STRING		DRILL COLLARS		COLLAR		7		4 3/4		207.56		DRILLING STRING		DRILL COLLARS		COLLAR		7		4 3/4		207.56		DRILLING STRING		DRILL COLLARS									
DATA		39,000								DATA		39,000		10,500						DATA		40 m		10 1/2 m																			
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											
10		M4N		8 1/2 AM		7 1/2		18 M		17		38		10		M4N		14 1/4		18 M		17		38		10		M4N		14 1/4		18 M		17		38							
Bit Serial No.		340421		Table R.P.M.		70		Bit Serial No.		340421		Table R.P.M.		70		Bit Serial No.		340421		Table R.P.M.		90		Bit Serial No.		340421		Table R.P.M.		90		Bit Serial No.		340421		Table R.P.M.							
Jet or Conventional		CONV		Nozzle Size		6.0		Jet or Conventional		CONV		Nozzle Size		6.0		Jet or Conventional		CONV		Nozzle Size		6.0		Jet or Conventional		CONV		Nozzle Size		6.0		Jet or Conventional		CONV		Nozzle Size							
SURVEYS		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		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size	
No. 1		1 3/4		1/2		300		10		52		5 1/2		6 1/2		4		300		10		52		5 1/2		5 3/4		3		300		10		52		5 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							
130		35										2500# GEL 50# CAUSTIC		2:20		9.0		11.2		13				Soda Ash - 300#		6:00		9.0		8.9		12		50# SODA ASH									
500		45		8.9		10.0		11.5		15		SAND		3:30		9.0		5.0		13				SPERSENE - 500#		8:00		7.0		8.6		12		150# SPERSENE									
130		100		8.9		12.0		100#		SPERSENE																																	
3.8																																											
CORING		From		To		Ft. Cored		Ft. Rec'd.		Core No.		Type Bbl.		From		To		Ft. Cored		Ft. Rec'd.		Core No.		Type Bbl.		From		To		Ft. Cored		Ft. Rec'd.		Core No.		Type Bbl.							
DETAIL OF OPERATIONS AND REMARKS		Rig Serv & W.O. Pump		12:00		12:30		1/2		RIG SERVICE		8:00		8:30		1/4		WORK ON DEWIK MOTOR		4:00		5:30		1 1/2		DRILLING		5:30		6:30		1		WORK ON MUD PUMP		6:30		7:00		1/2			
MIXING GEL & LOSS CIRCU		12:30		4:30		4		MIX MUD WORK ON PUMPS		3:00		4:00		1/2		DRILLING WHILE		7:00		9:00		2		MIXING MUD IN P.F.		9:00		9:30		1/4		BLOW OUT MUD LINES ON		9:00		9:30		1/4					
REGAINING CIRCU		4:30		5:30		1		CIRCULATE TO CONDITION		3:00		3:30		1/2		MUD TANK		9:15		12:00		2 3/4		DRILLING																			
CIRCU CHECK VOLUME - HAVING O.K.		5:30		6:00		1/2		MIX MUD		3:00		3:30		1/2																													
RUN IN TO BOTTOM		6:00		6:15		1/4		WORK ON DRAWWORKS - MOTOR		3:30		4:00		1/2																													
DRAY		6:15		8:00		1 3/4																																					
Driller		Joe Riley								Driller		Joe Riley														Driller		L. M. Collins															

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 _____

Approved by _____

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

Imperial Oil Ltd. SEC. TWN. RGE. W. Contractor W. ARDEN Type Rig NOT 30 Month 1 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.																													
BEAM DEPTH		1940 1942		Hole Made		Hole Size		Formation		BEAM 1942 1942		Hole Made		Hole Size		Formation		BEAM 1942 1942		Hole Made		Hole Size		Formation																									
1975 1990		15 5		LIME		1990 1990		6 1/4 LIME		1990 1990		6 1/4 LIME		1990 1990		6 1/4 LIME		1990 1990		6 1/4 LIME		1990 1990		6 1/4 LIME																									
Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.															
3 1/2		28		16 up		207.56		56.70		3 1/2		29		- 28 up		207.56		3 1/2		29		Down		207.56		3 1/2		29		Down		207.56																	
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		7		4 1/4		207.56		DRILLING STRING		DRILL COLLARS		COLLAR		7		4 1/4		207.56		DRILLING STRING		DRILL COLLARS		COLLAR		7		4 1/4		207.56		DRILLING STRING		DRILL COLLARS															
DATA		37,000		10.5 M		DATA		38 M		10.5 M		DATA		38 M		10.5 M		DATA		38 M		10.5 M		DATA		38 M		10.5 M		DATA		38 M		10.5 M															
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	
9.00		M4N		7:20 AM		7:31		10 M		242		10 M		10 M		40		229		M4N		7:20 AM		7:31		10 M		242		10 M		40		229		M4N		7:20 AM		7:31		10 M		242		10 M			
Bit Serial No.		72-54		390423		Table R.P.M.		90		Bit Serial No.		390423		Table R.P.M.		90		Bit Serial No.		390423		Table R.P.M.		90		Bit Serial No.		390423		Table R.P.M.		90		Bit Serial No.		390423		Table R.P.M.		90									
Jet or Conventional		D		CONN		Nozzle Size		Nozzle Size		Jet or Conventional		D		CONN		Nozzle Size		Jet or Conventional		D		CONN		Nozzle Size		Jet or Conventional		D		CONN		Nozzle Size		Jet or Conventional		D		CONN		Nozzle Size									
SURVEYS		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		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		4 1/4		CORING		800		10		32		5 1/2		8		8		250		10		52		5 1/2		7		7		250		10		52		5 1/2													
No. 2		1/2		REAMING		300		10		52		5 1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		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		90		9.0		7.4		12.0		200# SODA ASH		50# CAUSTIC		7:30		70		9.0		8.0		12		100# SODA ASH		9		65		9.8		7.6		13		25# CAUSTIC													
3:30		70								50# SODIUM		300		6.5		9.0		7.6		12		11		80		9.8		7.6		13		25# SODIUM																	
2:40		FUEL IN TANK																																															
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.													
1975		1990		15		50		8		EASTLAND																																							
DETAIL OF OPERATIONS AND REMARKS		From		To		Hrs.		From		To		Hrs.		From		To		Hrs.		From		To		Hrs.		From		To		Hrs.		From		To		Hrs.													
CORING & BREAK OFF CORE		12:00		1:15		1 1/4		12:00		1:15		1 1/4		12:00		1:15		1 1/4		12:00		1:15		1 1/4		12:00		1:15		1 1/4		12:00		1:15		1 1/4													
HOLIST		4:15		5:30		1 1/4		4:15		5:30		1 1/4		4:15		5:30		1 1/4		4:15		5:30		1 1/4		4:15		5:30		1 1/4		4:15		5:30		1 1/4													
REMOVE CORE & LOW BBL.		5:30		6:15		3/4		5:30		6:15		3/4		5:30		6:15		3/4		5:30		6:15		3/4		5:30		6:15		3/4		5:30		6:15		3/4													
4 STROCK BACK LINE		6:15		7:30		1 1/4		6:15		7:30		1 1/4		6:15		7:30		1 1/4		6:15		7:30		1 1/4		6:15		7:30		1 1/4		6:15		7:30		1 1/4													
RUN IN HOLE TO BEAM		7:30		8:00		1/2		7:30		8:00		1/2		7:30		8:00		1/2		7:30		8:00		1/2		7:30		8:00		1/2		7:30		8:00		1/2													
5" ART-HOLE																																																	
REAMING																																																	
Driller		J. P. Filly						Driller		J. P. Filly				Driller		J. P. Filly				Driller		J. P. Filly				Driller		J. P. Filly				Driller		J. P. Filly															

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

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

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

CLASSES OF TIME BREAKDOWN										PREVENTER EQUIPMENT TO	
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:	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 E. J. [Signature] Approved By _____

Imperial T-100-ESD SEC. 22 TWN. RGE. W. Contractor WARDEN DRILLING Type Rig NAT 30 Month 1 Day 21 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									
		1900	1913	13'	6 1/4"	LINE & ANTHRACITE						1913	1940	27'	6 1/4"	LINE & ANTHRACITE						1940	1940	0'	6 1/4"	LINE							
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
		3 1/2	27	1	6' up	207.56							3 1/2	28	-	9' up							3 1/2	28		9' up	207.56						
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	4 3/4"		207.56	DRILLING STRING				COLLAR		7	4 3/4"	2 1/4	207.56	DRILLING STRING				COLLAR		7	4 3/4"	2 1/4	207.56	DRILLING STRING							
DATA						37,000				DATA						37,000				DATA						37,000							
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	M4N	6:00	1:12			10,000	0 13				9	M4N	6:30	2:00	7:14	1940	10.0	27 13				9	M4N			7:14	1940	10.0	27 13		
						20,000																											
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		1 1/2	5	300	10	52	5 1/2	5 1/4			300	10	52	5 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		
		6:30	8.9	8.0	12.0						4:30	9.0	11.0	12.0	Caustic - 50 lbs																1500# GEL		
		7:00	4.3	8.9	13.2	13.0	550# SPERSENE				4:45	9.0	10.0	13.0	Gel - 300 lbs																		
							600# CAUSTIC				5:00	9.1	9.8	13.0	Spersene - 50 lbs																		
REAM RECORD		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.		
		1900	1913				REAM 5" RAT HOLE																										
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	Rig Serv		From		To	Hrs.	Rig Serv		From		To	Hrs.	Rig Serv		From		To	Hrs.	Rig Serv		From		To	Hrs.	Rig Serv			
		12:00		12:55	1 1/4	COND-Mud		12:55		3:45	3 1/2	DRILLING 6 1/4" HOLE		8:00		8:15		Running in w/ C.B.		4:00		4:30	1 1/2	HOLE TIGHT 700' at 1000'		4:30		5:30	1	PULL OUT C.B.			
		3:45		5:00	1 1/4	RUN IN HOLE & BROKE		3:00		3:15		PULLED OUT OF HOLE		8:15		8:30		CLEAN OUT C.B. Pkg w/ HOLE		5:30		6:15	3/4	6:15		7:15	1	7:15		8:00	3/4		
		5:00		6:30	1 1/2	COND-Mud		5:00		6:30	1 1/2	RICK UP CORE BBL		3:15		3:30		Run in w/ B.T.		6:15		7:15	1	CLEAN OUT HOLE		7:15		8:00	3/4	1500' - 1620' - 1720-1780' - lost CIRC. 1780			
		6:30		7:45	1 1/4	REAMING		6:30		7:45	1 1/4	RUNNING IN HOLE		3:30		4:00		PULL OUT TO 1512'		8:00		8:30	1/4	WAIT ON WATER IN X MUD		8:30		12:00	3 1/2				
		7:45		8:00	1/4	DRILL		7:45		8:00	1/4																						
Driller		Joe Dely				Driller		Al Lausean				Driller		L. M. Calum																			

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 L. J. Jones Approved by L. M. Calum

Total Contract Time hrs. Total Company Time hrs. Toolpusher 7/1/2012 Approved by

Imperial TRAIL DIVISION EK-R2
 LSD. SEC. TWN. RGE. W. Contractor WARDEN DRILL Type Rig NAT-30 Month 1/19/60 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						
PEAK		1778	1809	31	6 1/4	LIME				PEAK		1805	1842	7	5	LIME				PEAK		1842	1865	23	5	LIME						
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.					
DRILLING STRING		3 1/2	26	-	20'	207.56	-			DRILLING STRING		3 1/2	25	1	207.56	56.70			DRILLING STRING		3 1/2	26	-	19 1/2	207.56	56.70						
DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL					
DRILLING STRING		COLLAR	7	4 3/4	2 1/4	207.56	DRILLING STRING			DRILLING STRING		COLLAR	7	4 3/4	2 1/4	207.56	DRILLING STRING			DRILLING STRING		COLLAR	7	4 3/4	2 1/4	207.56	DRILLING STRING					
DRILLING STRING		DATA				37,000				DRILLING STRING		DATA				37,000	10,500			DRILLING STRING		DATA				36m	10 1/2 m					
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	
BIT RECORD		RR-8	OSC	3 1/2		1 1/2		10,000	75		BIT RECORD		RR8	OSC	3 1/2		1 1/2		10,000	101		BIT RECORD		D	9.5	5 1/2	3 1/2		8m			
BIT RECORD		Bit Serial No. 70331		Table R.P.M. 120		Jet or Conventional - CONU		Nozzle Size 1/2" OUT-OUT		BIT RECORD		Bit Serial No. 700331-7259		Table R.P.M. 90		Jet or Conventional - CONN 5" DIAMOND		Nozzle Size C.O.		BIT RECORD		Bit Serial No. 7259		Table R.P.M. 90		Jet or Conventional - D		Nozzle Size C.O.				
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		On Line	Circulating	350	10	5	5 1/2	SLUSH PUMP RECORD		On Line	Circulating	900	10	5 1/2	SLUSH PUMP RECORD		On Line	Circulating	950	10	38	5 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							
MUD RECORD		4:30	72	8.6	6.2	9.5			MUD RECORD		60	9.0	6.2	9.5	100 lbs GEL		MUD RECORD		50	62	9.2	9.0										
MUD RECORD		7:00	69	9.0	6.0	9.5			MUD RECORD		58	9.0	6.6	9.0	F.C. 1/2" SFT. FIRM.		MUD RECORD		90	58	9.2	9.0										
MUD RECORD		FUEL IN TANKS 4' 9"						MUD RECORD						25 lbs CAUSTIC		MUD RECORD		100		56	9.2	6.4	9.0									
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		1778	1835	37	37	4	EASTLAND	CORING		1835	1842	7		5	EASTLAND	CORING		1835	1850	15	15	5	EASTLAND									
CORING				100%			CORING							6		CORING																
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.															
DETAIL OF OPERATIONS AND REMARKS		Rig SERV		12:00	12:15	1/4	DETAIL OF OPERATIONS AND REMARKS		Rig SERVICE		8:00	8:15	1/4	DETAIL OF OPERATIONS AND REMARKS		CORING		4:00	5:45	1 3/4												
DETAIL OF OPERATIONS AND REMARKS		BLOW KILLY & HOIST		12:15	1:30	1 1/4	DETAIL OF OPERATIONS AND REMARKS		BEARING RAT HOLE 1807-1835		8:15	11:00	2 3/4	DETAIL OF OPERATIONS AND REMARKS		Pull out		5:45	6:45	1												
DETAIL OF OPERATIONS AND REMARKS		REMOVE CORE & SERV BBL		1:30	2:15	3/4	DETAIL OF OPERATIONS AND REMARKS		CIRC-MUD MAN CHECKING MUD		11:00	12:00	1	DETAIL OF OPERATIONS AND REMARKS		RECOVER SERV CORE BBL		6:45	7:30	3/4												
DETAIL OF OPERATIONS AND REMARKS		REPLACE JACK SCADET BRAKE		2:15	2:30	1/4	DETAIL OF OPERATIONS AND REMARKS		PULL OUT OF HOLE		12:00	1:00	1	DETAIL OF OPERATIONS AND REMARKS		Run in w/c.c.		7:30	8:30	1												
DETAIL OF OPERATIONS AND REMARKS		RAN IN HOLE & BREAK CIRCUIT		2:30	3:45	1 1/4	DETAIL OF OPERATIONS AND REMARKS		PICK UP CORE BIT DES		1:00	1:30	1/2	DETAIL OF OPERATIONS AND REMARKS		CLEAN OUT TO BDM		8:30	9:15	3/4												
DETAIL OF OPERATIONS AND REMARKS		BEARING 5" RAT HOLE		3:45	8:00	4 1/4	DETAIL OF OPERATIONS AND REMARKS		SLIP 10 FT DRILL LINE		1:30	1:45	1/4	DETAIL OF OPERATIONS AND REMARKS		CORING #1		9:15	12:00	2 3/4												
DETAIL OF OPERATIONS AND REMARKS							DETAIL OF OPERATIONS AND REMARKS		FINISH RUNNING IN		1:45	2:45	1	DETAIL OF OPERATIONS AND REMARKS																		
DETAIL OF OPERATIONS AND REMARKS							DETAIL OF OPERATIONS AND REMARKS		CLEAN OUT TO BDM		2:45	3:00	1/4	DETAIL OF OPERATIONS AND REMARKS																		
DETAIL OF OPERATIONS AND REMARKS							DETAIL OF OPERATIONS AND REMARKS		CORING CORE NO'S		3:00	4:00	1	DETAIL OF OPERATIONS AND REMARKS																		
DETAIL OF OPERATIONS AND REMARKS		Driller Joe P. Riley				DETAIL OF OPERATIONS AND REMARKS		Driller M. Cousineau		8 HRS.		DETAIL OF OPERATIONS AND REMARKS		Driller F. McCallum																		

HEADING UP & DRUG. 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: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

IMPERIAL TARIO LSD. SEC. TWN. RGE. W. Contractor WARREN DRILL Type Rig NAT-30 Month 1 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												
		1778	1783	5	5	LIME								1793	1798	15	5	LIME								1798	1835	37	5	LIME												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.													
		3 1/2	24	1	9 up	207.56	56.70					3 1/2		25		23 up	207.56	56.70					3 1/2		25	1	18 up	207.56	56.70													
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	4 3/4		207.56	DRILLING STRING						COLLAR		7	4 3/4		207.56	DRILLING STRING						COLLAR		7	4 3/4		207.56	DRILLING STRING												
DATA		37,000						10,500.						DATA		37,000						10,500						DATA		37 m						10.5 m.						
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											
		7-C	Boyles	6:15 AM		14		8,000				7-C		Boyles	6:15 AM	12 AM	17 1/4	1758	8,000				7-C		Boyles	4:45 PM	12:00	25	1235	8 m												
Bit Serial No.		72-59						Table R.P.M. 90						Bit Serial No.		72-59						Table R.P.M. 90						Bit Serial No.		72-59						Table R.P.M. 90						
Jet or Conventional		Diamond						Nozzle Size						Jet or Conventional		Diamond						Nozzle Size						Jet or Conventional		Diamond						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		2 1/4		1300	10	42	5 1/2		4		1200	10	42	5 1/2		7 1/4	3/4	1400	10	40	5 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											
		6:15	65	9	8.0	9.5	2800# GEL						9:00		75	9.0	6.4	9.5							7:00		62	9.0		9.5												
							15# DRISCOSE																																			
		7:15	67	9	7.2	9.5	5 SANDUST.						12:00		70	9.0	6.8	9.5	FC. 1/2. SUFF.						9:00		65	9.0	6.4	9.5												
							1 FIBERSEAL.																																			
		8:00	67				25# CAUSTIC.																		11:00		64	9.0		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.																					
		1778	1783	5		3	Boyls	1793		1798	20	19	3	EASTLAND.	1798		1835	37		4	EASTLAND.																					
DETAIL OF OPERATIONS AND REMARKS		Rig SERV						R.C SERVICE						CLEANING OUT RATHOLE																												
		CHANGE HEADS + LINERS IN PUMP						DIAMOND CORING						CORING																												
		PULL UP CORE BBL + RUN IN HOLE						PULL OUT OF HOLE																																		
		LOST CIRCU + MIX GEL CIR.						REC CORE NO 3																																		
		WASH CORE BBL TO BOTTOM						RUN IN HOLE W/ CORE BBL																																		
		CORING						CLEANING OUT FILL																																		
Driller		Joe Riley						Driller						L. M. Callum																												

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

Total Contract Time

Total Company Time

Toolpusher

Approved by

Form 54102 (250 OKS-5-59)

DAVIDSON CREEK P.2
LSD SEC. TWN. RGE. W. Contractor Wardson Day Type Rig APT-30 Month 1 Day 17 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	
	1763	1778	15	5	LIME		1778	-	-	-	-		1763	1788	REAM 15	6 1/4	LIME	
	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	3 1/2	24	1	13 UP	207.56	56.70	3 1/2	24	1	13 UP	207.56	56.70	3 1/2	25		"UP 19'	207.56	
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	7	4 3/4		207.56	DRILLING STRING	COLLAR	7	4 3/4		207.56	DRILLING STRING	COLLAR	7	4 3/4		207.56	DRILLING STRING
	DATA					36000	DATA					36000	DATA					36000
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
	7	Boyles T-20M		12 1/4			6,000			7	Boyles		12 1/4					
	Bit Serial No.	72-59	Table R.P.M.	90						Bit Serial No.	72-59	Table R.P.M.	90					
	Jet or Conventional -	D	Nozzle Size							Jet or Conventional -	D	Nozzle Size	C O					
SURVEYS	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
No. 1	4 1/4		350	10	32	6	4 1/4		350	10	32	6	3 3/4	2 1/2	350	10	50	6
No. 2																		
MUD RECORD	Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS
	5:00	42	9.3	6.8	9.5		12:00	45	9.0	10.0	9.0	Gel. 1200 165	6	53	9.6			5000 CEL
	7:00	42	9.3				2:30	120	9.0	9.0	9.0	3 Sacks - Sawdust	7	53	9.6			4 BAGS SAWDUST
	8:00	42				WORK ON PUMP 7:30-7:45 1/4	3:30	100	9.0	8.2	9.5	2 SACKS - Fiberseal	8	53	9.6	7.4		15# DRISCOSE
						D CORING 7:45-8:00 1/4						15/65 DRISCOSE	9	58	9.6			
						FUEL IN TANK 2 1/4"							10	64	9.6	6.4	9.0	
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.
	1763	1778	15		2	EASTLAND												
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.
	Rig SERV	12:00	12:15	1/4	RIG SERVICE	8:45	8:55	1/4	CIRC - FILL TANK	4:00	4:30	1/2						
	INSTALL VALVES ON CONTROL HEAD	12:15	1:15	1	WORK JAMMED CORE BBL	8:55	9:25	1/4	CLEAN OUT TO TOP RAT HOLE	4:30								
	PICK UP CORE BBL	1:15	1:45	1/2	PULL OUT OF HOLE	9:25	9:35	1	1682-1763	5:15	5:45	3/4						
	RUN IN HOLE & BREAK CIRCUIT	1:45	3:00	1 1/4	REC CORE NO 2	9:35	10:05	1 1/2	REAM RAT HOLE 5-6 1/2"	8:55	8:55	3						
	WORK TO BOTTOM WITH				STAND BACK & SER CORE BBL	10:05	10:25	1/2	COND MUD FOR CORING	8:55								
	CORE BBL	3:00	3:30	1/2	RUN IN HOLE TO 1652 REATING	10:25	11:35	1	Rise vol. 6"		10:45	11:00	1/4					
	D CORING	3:30	4:15	3/4	BEARING OUT TO BTH	11:35	12:35	1										

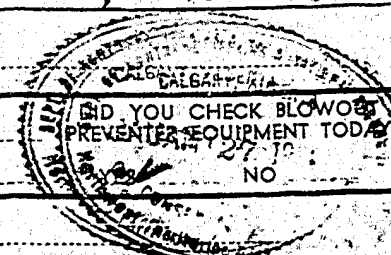
CLASSES OF TIME BREAKDOWN	
HEADING UP & DRLG. OUT:	TOTCO: CONDITIONING MUD:
DRILLING:	FISHING: TRIPPING:
REAMING:	CIRCULATING: CORING:

CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:
W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:
D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:

MNFR. DRILLING LINE IN USE _____ REEL SERIAL No. _____
 MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____

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

Approved by



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

Form 34402 (250 bks. 3-59)

IMPERIAL OIL COMPANY

TRAID DAWSON CK P.2

IMPERIAL LSD. SEC. TWN. RGE. W. Contractor **WARREN DAIRY** Type Rig **NET 30** Month **1** Day **15** 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.																																			
	From		To		Hole Made		Hole Size		Formation		From		To		Hole Made		Hole Size		Formation		From		To		Hole Made		Hole Size		Formation																			
DEPTH	1724		1726		22		6 1/4		LIME		1726		1763		37		5		LIME		1724		1739		15		6 1/4		LIME																			
	Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.													
	3 1/2		24		1		12 1/2		207.56		56.70		3 1/2		24		1		28 07		207.56		56.70		3 1/2		55		27 1/2		207.56		56.70															
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		7		4 3/4				207.56		DRILLING STRING		COLLAR		7		4 3/4				207.56		DRILLING STRING		COLLAR		7		4 3/4				207.56		DRILLING STRING													
	DATA								36 000		10,500		DATA								36 000		10,500		DATA								36 000		10,500													
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	
	6		OSC-3		7:30 AM		2:15		4 3/4		1726		12 M		169		7		D		6:15 AM		4 3/4		8 3/4		1763		12 M		15		8		OSC		7:30 AM		3:14		8		15					
	Bit Serial No.		69628 -		72-59		Table R.P.M.		120		Bit Serial No.		72-59		Table R.P.M.		90		Bit Serial No.		70331		Table R.P.M.		90		Jet or Conventional -		CONV		Nozzle Size		9/16		Jet or Conventional -		CONV		Nozzle Size		1/2							
SURVEYS	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		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size							
	No. 1		2 1/4		350		10		58		76		6		No. 2		3 1/4		350		10		52		6		3 1/4		350		10		52		6		3 1/4		350		10		52		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		Time		Visc.		Wt.		W L		pH		ADDITIVES — POUNDS	
	1:00		30								1300 GEL		2:00		34								NOT LOOSING		8:00		50		9.8		9.5		800 GEL		10:00		38								LOST CIR. 10:45 PM.			
	7:00		37		8.9		8.4		10		FUEL 5' 4"		3:00		40		9						MUD.		10:45		45		9.8																			
	8:00		38								5" BIT 3" CORE																																					
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.																	

CLASSES OF TIME BREAKDOWN										REEL SERIAL No.		HOSE SERIAL No.	
HEADING UP & DRG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE						
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						

Total Contract Timehrs. Total Company Timehrs. Toolpusher 7/7 Approved by _____

Form 34402 (250 bks.-3-59)

IMPERIAL TRAMP DAVIDSON EK P.2

LSD. SEC. TWN

LSD. SEC. TWN. RGE

RGE

W.

Contractor WARDEN

Type Rig N-30

Month 1 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		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation													
	1339	1581	2'42"	6 1/4"	SHALE		1581	1672	91'	9"	SHALE		1672	1721	49'	6 1/4"	SHALE - LIME													
	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.												
	3 1/2	22	NIL	DOWN	207.56		3 1/2	23	1	3975'0"	207.56		3 1/2	24	1	UP 12	207.56													
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	7	4 3/4"	2 3/8"	207.56	DRILLING STRING	COLLAR	7	4 3/4"		207.56	DRILLING STRING	COLLAR	7	4 3/4"		207.56	DRILLING STRING												
	DATA						DATA						DATA				38m	10m												
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													
	5	O.S.C.3	7:30 AM	4:45	18 1/4	1552	10' M	1080		6	O.S.C.3	7:30 AM		1 1/4		10	120													
	6	O.S.C.3	7:30 AM				10																							
	Bit Serial No. 68453-69628						Table R.P.M. 140						Bit Serial No. 68453-69628						Table R.P.M. 120											
	Jet or Conventional - CONN						Nozzle Size 9/16						Jet or Conventional - CONN						Nozzle Size 9/16											
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	4	1/2	400	10	58	6			400	10	58	6	3	1 3/4	400	10	52	6												
MUD RECORD	Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	WL	pH	ADDITIVES — POUNDS										
	1:30	30	9.3		9.5								Caustic - 100 lbs		6:55	8.9				CEL #500										
	4:30	30	9.2		9.5								Fiberseal - 4 Sacks																	
													Sawdust - 16 Sacks		10:38	8.9														
													MagcoGel - 2000 lbs																	
	CHECK A.O.P. O.K. (BAIRD RAMS)																													
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.												
	FUEL IN TANK 2' 10"																													
DETAIL OF OPERATIONS AND REMARKS	Rig Serv						From	To	Hrs.	P.C SERVICE						From	To	Hrs.	MIX MUD - RECAP CIRC.											
	DRY						12:00	12:15	1/4	DRILLING						8:00	8:15	1/4	6:00 8:00 2											
	CIRCUIT HOLE CLEAN						12:15	4:15	4	HI. AND WAIT ON WATER						8:15	9:30	1 1/4	CLEAN OUT MUD DITCH ON											
	BLOW KELLY + HOIST-TIGHTEN						4:15	4:45	1/2	LOST CIRCULATION @						9:30	4:00	6 1/2	8:00											
	CHECK B.O.P. & CHANGE BITS						4:45	6:00	1 1/4	1672 @ 9:30 AM									MUD TANK											
	RUNNING HOLE WORKING						6:00	6:30	1/2										WORK ON ROTARY CHAIN											
	TIGHT SPOTS & PROVE CIRCUIT						6:30	7:30	1										8:30 1/2											
	DRY						7:30	8:00	1/2										+ GAUGED											
																			DRILLING											
																			CIRC @ 1720											
																			9:15 10:15 1											
																			10:15 12:00 1-											
	Driller J. Kelly						Driller Al. Louisian						Driller L. McCallum						CALGARY											

CLASSES OF TIME BREAKDOWN	
HEADING UP & DRLG. OUT:	TOTCO: CONDITIONING MUD
DRILLING:	FISHING: TRIPPING:
REAMING:	CIRCULATING: CORING:

CASING:	LOGGING:	RIG MAINTENANCE:
W.O.C.	W O ORDERS:	MISCELLANEOUS:
D.S. TESTING:	RIG REPAIRS:	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. _____



Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

IMPERIAL TRAIL *DAWSON CK. P.2* LSD. SEC. TWN. RGE. W. Contractor *WARDEAN DRLY* Type Rig *NAT 30* Month *1* Day *13* 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				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation									
		474	490	16	6 1/4	CEMENT & SHALE						490	893	383	9	SHALE						883	1339	456	6 1/4	SHALE									
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
		3 1/2	4	-	DOWN	207.56							3 1/2	10	1	3975 Pounds	207.56							3 1/2	18	-	DOWN	207.56							
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	4 3/4		207.56	DRILLING STRING				COLLAR		7	4 3/4		207.56	DRILLING STRING				COLLAR		7	4 3/4		207.56	DRILLING STRING									
DATA		20,000								DATA		24,000								DATA		18 m													
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				
		5	OSC-3	730		12	18	18.00	16				5	OSC-3			6 1/2	20	399					5	OSC-3			14 1/4	10 m	855					
SURVEYS		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				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				
		On Line	Circulating	200	10	58	6			300	10	60	6			7314	350	10	60	6			7314	350	10	60	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								
							WATER. 100 # B. 3AB										WATER.										WATER.								
							PRESSURED UP O.O.P. 1000 # P.S.I. - HELD O.K. 15 MINS																												
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.
		PRESSURED UP FORMATION 200 # P.S.I. HELD O.K.																																	
DETAIL OF OPERATIONS AND REMARKS		Top of Plug 4128 CEMENT To 4128						WORK ON MUD TANKS						Rig SERV.						4:00 4:15 1/4						4:15 12:00 7 3/4									
		PICKED UP 3 DAMN COLLARS & RAN IN HOLE 12:00 2:00 2						DRILLING.						DRILL																					
		PRIME PUMP & HOOK UP KELLY HOSE 2:00 3:00 1																																	
		WORKING ON MUD TANK 3:00 5:00 2																																	
		DRILL Plug & COLLAR. 5:00 6:00 1																																	
		TIGHTEN PLATES ON B.O.P. & PRESSURED UP 6:00 7:00 1																																	
		DRILL CASING SHOE & PRESSURE 7:00 7:30 1/2																																	
		UP FORMATION DRLY 7:30 8:00 1/2																																	
		Driller <i>J. Riley</i>						Driller <i>Al. Louisian</i>												Driller <i>L. M. Callum</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.: 8 HRS

Total Contract Timehrs. Total Company Timehrs. Toolpusher *19 hours* Approved by

Form 34402 (250 bks. 3-59)

IMPERIAL OIL LIMITED

TRAID DAVIDSON LK P.2

IMPERIAL LSD. SEC. TWN. RGE. W. Contractor WARDEAN DALY Type Rig NAT 30 Month JAN 12 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 474	DEPTH From To Hole Made Hole Size Formation 474	DEPTH From To Hole Made Hole Size Formation 474
DRILLING STRING Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft. DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL COLLAR DRILLING STRING DRILL COLLARS DATA	DRILLING STRING Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft. DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL COLLAR DRILLING STRING DRILL COLLARS DATA	DRILLING STRING Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft. DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL COLLAR DRILLING STRING DRILL COLLARS DATA
BIT RECORD No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size	BIT RECORD No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size	BIT RECORD No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size
SURVEYS Kind at Ft. Deg. off HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size	SURVEYS Kind at Ft. Deg. off HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size	SURVEYS Kind at Ft. Deg. off HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size
SLUSH PUMP RECORD No. 1 No. 2	SLUSH PUMP RECORD No. 1 No. 2	SLUSH PUMP RECORD No. 1 No. 2
MUD RECORD Time Visc. Wt. W L pH ADDITIVES — POUNDS FUEL IN TANK 3' 10"	MUD RECORD Time Visc. Wt. W L pH ADDITIVES — POUNDS	MUD RECORD Time Visc. Wt. W L pH ADDITIVES — POUNDS
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. W.O.C. SLACK-OFF 12:00 3:00 3 BRIDGING UP 3:00 8:00 5 8	DETAIL OF OPERATIONS AND REMARKS From To Hrs. HEADING UP 8:00 4:00 7 W.O.C. 3:00 4:00 1 HEADING UP. 8	DETAIL OF OPERATIONS AND REMARKS From To Hrs. HEADING UP - WORK ON 4:00 BRAKE ON DRUMS - WORK 12:00 8 ON STEAM LINES
Driller Joe Riley	Driller Al Louisa	Driller L. M. Callahan

CLASSES OF TIME BREAKDOWN										PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.		YES	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.			

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by _____

IMPERIAL TANK DRAVISON CREEK P.2. LSD. SEC. TWN. RGE. W. Contractor WARDEAN OALG Type Rig NAT 30 Month 1 Day 11 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				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation											
472		474	2	9"	SHALE																																
DRILLING STRING		Size-D.P.	Stand's	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stand's	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stand's	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.												
3 1/2		4	1	20' up	up 20	176.77																															
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		2	6 3/4		57.00	DRILLING STRING			DRILL COLLARS			COLLAR				DRILLING STRING			DRILL COLLARS			COLLAR				DRILLING STRING			DRILL COLLARS								
DATA		4	4 3/4		119.77	17.000			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								
4		OSC		1 1/2	474	12,000	34	230																													
Bit Serial No.		93468				Table R.P.M.				120				Bit Serial No.						Table R.P.M.								Bit Serial No.						Table R.P.M.			
Jet or Conventional		CONV				Nozzle Size				9/16				Jet or Conventional						Nozzle Size								Jet or Conventional						Nozzle Size			
SURVEYS		Kind	Totco		at	465	Ft.	1 1/2	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		13/4		300	10	58	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														
1:00		104	10-2	100# GEL																																	
RAN 450' R2 SC 20" 7" TH. 10R CASING, LANDED AT 461.83' KB																																					
CEMENT W 2% CALCT 100 SKS CEMENT																																					
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.																
NO RETURNS OF CEMENT																																					
DETAIL OF OPERATIONS AND REMARKS																																					
SEAN RIG		12:00		12:15		1/4																															
PUT ON KENY & BROKE CIRCUIT		12:15		12:30		1/4																															
DRAG		12:30		12:45		1/4																															
CIRCUIT & CHECK MUD		12:45		1:00		1/2																															
HOIST & LAYED DOWN 6 3/4 COLUMNS		1:15		2:15		1																															
RIG UP TO RUN CASING		2:15		3:00		3/4																															
RUNNING CASING		3:00		6:00		3																															
WORKING PIPE & CIRCUIT		6:00		7:00		1																															
CEMENTING CASING		7:00		8:00		1/8																															
Driller		Joe Rely						Driller		C. Curran						Driller		L. M. Callum																			

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 Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Imperial TRAD. DAVIDSON CREEK P2. LSD. SEC. TWN. RGE. W. Contractor WARDEAN DRG. Type Rig ART 30 Month 1 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									
		412	434	22	9"	SAND & GRAVEL						434	472	38	9	SAND & GRAVEL						472	472	-	9	SAND									
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.										
		3 1/2	3	1	5'	146.77						3 1/2	4	1	270P						3 1/2	4	1	4P 22	146.77										
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		2	6 3/4		5200'	DRILLING STRING				COLLAR		2	6 3/4		5700	DRILLING STRING				COLLAR		2	6 3/4	5	57.90	DRILLING STRING									
DATA		4	4 3/4		119.77	17,000				DATA		4	4 3/4		119.77	20,000				DATA		4	4 3/4		119.77	14 m.									
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						
		3	OSC	12:15		10		12	38	50			3	OSC	11:40		11 1/2		14	44				4	OSC			1:14	472	32	230.				
		Bit Serial No. 97694				Table R.P.M. 100						Bit Serial No. 97694-93468				Table R.P.M. 120						Bit Serial No. 93468				Table R.P.M. 80									
		Jet or Conventional - Conv.				Nozzle Size 1/2"						Jet or Conventional - Conv.				Nozzle Size 1/2"						Jet or Conventional - Conv.				Nozzle Size 1/2"									
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				
		On Line	Circulating					On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating							
		6 1/2		200	10	58	6	3 1/4			200			1			200	10	58	6	1			200	10	58	6	1							
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				
							500# GEL										9		75				20 CAUSTIC												
							40# CAUSTIC										9:30		80																
		150															10:00		150																
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		SERV. P.R.G.		12:00	12:15	1/4		RIG SERVICE		8:00	8:15	1/4		RIG SERVICE		4:00	4:15	1/4		RIG SERVICE		4:00	4:15	1/4		RIG SERVICE		4:00	4:15	1/4		RIG SERVICE			
		DRG		12:15	6:00	5 3/4		WORK ON PUMP		8:15	8:45	1/2		FINISH OUT		4:15	4:45	1/2		FINISH OUT		4:45	5:15	1/2		FINISH OUT		5:15	5:45	1/2		FINISH OUT			
		W.C. Pump		6:00	6:30	1/2		DRILLING		8:45	11:00	2 1/4		Run in & stand out 90' 2304 350-472		4:45	9:00	4 1/4		Run in & stand out 90' 2304 350-472		4:45	9:00	4 1/4		Run in & stand out 90' 2304 350-472		4:45	9:00	4 1/4		Run in & stand out 90' 2304 350-472			
		DRG		6:30	7:15	3/4		TRIP OUT L.R. BIT		11:00	12:00	1 1/4		CIRC - COND. MUD		9:00	10:00	1		CIRC - COND. MUD		9:00	10:00	1		CIRC - COND. MUD		9:00	10:00	1		CIRC - COND. MUD			
		CLEAN OUT PUMP		7:15	8:00	3/4		Run in - READ TO BIT		12:00	2:00	2 1/2		DROP SURVEY (7 1/2")		10:00	10:15	1/4		DROP SURVEY (7 1/2")		10:00	10:15	1/4		DROP SURVEY (7 1/2")		10:00	10:15	1/4		DROP SURVEY (7 1/2")			
								DRILLING		2:00	3:15	1 1/4		PULL OUT		10:15	11:00	3/4		PULL OUT		10:15	11:00	3/4		PULL OUT		10:15	11:00	3/4		PULL OUT			
								PULL OUT IF HOLE		3:15	4:15	3 1/4		BREAK BIT RECOVER TOP OF MUD		11:00	11:15	1/4		BREAK BIT RECOVER TOP OF MUD		11:00	11:15	1/4		BREAK BIT RECOVER TOP OF MUD		11:00	11:15	1/4		BREAK BIT RECOVER TOP OF MUD			
								TO CONDITION						Run in hole		11:15	12:00	3/4		Run in hole		11:15	12:00	3/4		Run in hole		11:15	12:00	3/4		Run in hole			
								MEASURE PIPE .12 DIFF.																											
Driller		Joe Ruby						Driller						Joe Ruby						Driller						Joe Ruby									

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.
 DRILLING: FISHING: TRIPPING: W.O.C. W.O. ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

Total Contract Time hrs.

Total Company Time hrs.

Top pusher

Approved by

Form 34402 (250) BKS-3-59

IMPERIAL OIL LIMITED

IMPERIAL TRIO JOHNSON CREEK P.2

LSD. SEC. TWN. RGE. W. Contractor WARDEAN DRILLING Type Rig NAT-30 Month 1 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				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation							
		37422	39632	22	9	SAND & GRAVEL						37422	39632	22	9	SAND & GRAVEL						37422	39632	22	9	SAND & GRAVEL							
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.						
		3 1/2	3	1	27	146.77						3 1/2	3	1	27	146.77						3 1/2	3	1	27	146.77							
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		2	6 3/4		57.00	DRILLING STRING				COLLAR		2	6 3/4		57.00	DRILLING STRING				COLLAR		2	6 3/4		57.00	DRILLING STRING							
DATA		4	4 3/4		112.77	17000				DATA		4	4 3/4		112.77	17000				DATA		4	4 3/4		112.77	17000							
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				
		2	OSC	12:15	3:00	17 1/2	396	16,000	268				3	OSC	12:15										3	OSC	12:15						
		3	OSC																														
		Bit Serial No. 97707 & 97694 Table R.P.M. 120										Bit Serial No. 97694 Table R.P.M. 120										Bit Serial No. 97694 Table R.P.M. 120											
		Jet or Conventional - CONV CONV Nozzle Size 9/16										Jet or Conventional - CONV Nozzle Size 9/16										Jet or Conventional - CONV Nozzle Size 9/16											
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												
		5 1/4		250	10	58	6			5 1/4			200	10	58	6			5 1/4			200	10	58	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						
							NIL											500 GEL 15 CAUSTIC											GEL 1000 CAUSTIC 15				
		120																HEAVY															
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 Serv								Rig Serv								Rig Serv															
		12:00 12:15 1/4								Rig Service								4:00 4:15 1/4															
		12:15 3:00 2 3/4								BEARING TIGHT HOLE								Pull out Plug & Bit															
		3:00 4:00 1								Pull out Plug & Bit								Run in 2700 lbs															
		4:00 5:00 1								Running in bearing								Ream to 37 in															
		5:00 8:00 3								Pull out Plug & Bit								Drilling															
										Wait on welder to cut out								Circ - wait on orders															
										Bit																							
										Running in hole reaming																							
										Caving sand & gravel																							
Driller		J. Bailey								Driller								J. Lawrence								Driller							

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

Total Contract Timehrs.

Total Company Time hrs.

Toolpusher

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

IMPERIAL TRAIL DAVISON CREEK R.2
 LSD..... SEC..... TWN..... RGE..... W..... Contractor WILSON DRILLING Type Rig NAT 30 Month 1 Day 8 1950

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					
		124	161	37	9	SAND & GRAVEL						161	191.34	30	9	SAND & GRAVEL						191.34	374.22	182.88	9	SAND & GRAVEL			
DRILLING STRING		Size-D.P.	Stands	Singles	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			
		3 1/2			36'									36.150P	147.04							3 1/4	2	1	147.77				
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		1	5.318		27.77	DRILLING STRING				COLLAR		1	5.318		27.77	DRILLING STRING				COLLAR		1	5.318		27.77	DRILLING STRING			
DATA		3	4.314		29.90	15000				DATA		3	4.314		29.90	15000				DATA		3	4.314		29.90	15000			
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		
		2	OSC	124		63 1/4		16,000	37			2	OSC			7 1/2		16,000	30			2	OSC			14 1/4		16,000	250
Bit Serial No. <u>2-97707</u> Table R.P.M. <u>9/16</u>										Bit Serial No. <u>97707</u> Table R.P.M. <u>9/16</u>										Bit Serial No. <u>97707</u> Table R.P.M. <u>9/16</u>									
Jet or Conventional - <u>CONV</u> Nozzle Size <u>9/16</u>										Jet or Conventional - <u>CONV</u> Nozzle Size <u>9/16</u>										Jet or Conventional - <u>CONV</u> Nozzle Size <u>9/16</u>									
SURVEY at <u>CONV</u> Ft. <u>9/16</u> Deg. off <u>9/16</u>										SURVEY at <u>CONV</u> Ft. <u>9/16</u> Deg. off <u>9/16</u>										SURVEY at <u>CONV</u> Ft. <u>9/16</u> Deg. off <u>9/16</u>									
SLUSH PUMP RECORD										SLUSH PUMP RECORD										SLUSH PUMP RECORD									
No. 1										No. 1										No. 1									
No. 2										No. 2										No. 2									
MUD RECORD										MUD RECORD										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									
180 180 200 10 58 6"										180 180 200 10 58 6"										180 180 200 10 58 6"									
CORING										CORING										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.									
FUEL IN TANK 2' 11" 8:00 A.M.										FUEL IN TANK 2' 11" 8:00 A.M.										FUEL IN TANK 2' 11" 8:00 A.M.									
DETAIL OF OPERATIONS AND REMARKS										DETAIL OF OPERATIONS AND REMARKS										DETAIL OF OPERATIONS AND REMARKS									
Rig SERV 12:00 12:15 1/4										Rig SERV 12:00 12:15 1/4										Rig SERV 12:00 12:15 1/4									
DRILL 12:15 2:00 13 1/4										DRILL 12:15 2:00 13 1/4										DRILL 12:15 2:00 13 1/4									
Pick up Drill Collar & Work In 2:00 2:30 1/2										Pick up Drill Collar & Work In 2:00 2:30 1/2										Pick up Drill Collar & Work In 2:00 2:30 1/2									
DRILL 2:30 5:00 3										DRILL 2:30 5:00 3										DRILL 2:30 5:00 3									
W.O. Pump & DITCH 5:30 6:00 1/2										W.O. Pump & DITCH 5:30 6:00 1/2										W.O. Pump & DITCH 5:30 6:00 1/2									
DRILL 6:00 6:30 1/2										DRILL 6:00 6:30 1/2										DRILL 6:00 6:30 1/2									
REAMING KELLY 6:30 7:00 1/2										REAMING KELLY 6:30 7:00 1/2										REAMING KELLY 6:30 7:00 1/2									
Work on Rotary Catch 7:00 7:30 1/2										Work on Rotary Catch 7:00 7:30 1/2										Work on Rotary Catch 7:00 7:30 1/2									
REAMING KELLY 7:30 8:00 1/2										REAMING KELLY 7:30 8:00 1/2										REAMING KELLY 7:30 8:00 1/2									
Driller <u>C. E. Riley</u>										Driller <u>C. E. Riley</u>										Driller <u>C. E. Riley</u>									

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.
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher JohnApproved by L. M. Callum

Imp. TRAND DAVIDSON CREEK P.2

LSD. SEC. TWN. RGE. W.

Contractor WARDEAN DRILLING

Type Rig NAT 30

Month 1 Day 7 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																			
		68			9	SAND						68	90	22	9	SAND & ROCK						90	124	34	9	GRADE																			
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																				
		3 1/2												3 1/2			31.75	57.00						3 1/4			UP 7	87.19																	
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			2			DRILLING STRING				COLLAR			3			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																
									Drilled	Reamed									Drilled	Reamed									Drilled	Reamed															
												Bit Serial No. 99966										Table R.P.M. 90																							
		Jet or Conventional -										Nozzle Size										Jet or Conventional - Conn										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														
		On Line	Circulating					On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating																	
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS														
		Mud used 3900# GEL								Gel - 600 lbs Caustic 15 lbs								20 CAUSTIC																											
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.												
		12:00		12:15	1/4	12:15		5:00	1 1/4	8:00		8:15	1/4	8:15		11:00	2 1/4	6:00		6:15	1/4	6:15		6:30	1/2	6:30		7:00	1/2	7:00		7:30	1/2												
		CLEAN OUT Mud Pot & Mix GEL		PICKED UP DRILL COLLAR		BEAMED DOWN TIGHT HOLE		MIX GEL		RIG SERVICE		M.V. 400		WORK ON SECTION HOSE		REAM IN CAVED HOLE 0-18		PULL OUT PLUGGY BIT		RUN IN TO BIT		DRILLING		CLEAN OUT VALVES ON PUMP		DRILLING		RIG SERVICE		DRILL		PICKED D.C. TO MIDDLE COR. VALVE		REAMING		MAKE CONN.		DRILLING		WORK ON PUMP		TRIP CHANGE BITS		RE CLEAN OUT TO BIT	
		7:00		8:00	1	3:00		3:30	1/2	3:30		4:00	1/2	10:00		11:00	1/2	11:00		12:00	1/2	11:00		12:00	1/2	11:00		12:00	1/2	11:00		12:00	1/2	11:00		12:00	1/2	11:00		12:00	1/2				
Driller		J. Riley								J. Riley								J. Riley								J. Riley																			

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

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Report #1

IMP. TRIAD - DAVIDSON CREEK P2.

LSD. SEC. TWN. RGE. W.

Contractor WARDEAN DRIG.

Type Rig NAT. 30.

Month JAN 5 Day 6 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						
		0		55	9							55	68	13	9	SANDSHALE								68	9	SAND						
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					
		3 1/2				27.77																				Down	27.77					
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	
		1	OSC-3										1	OSC3	0		4 3/4		ALL	68	36.75			1	OSC3	0					66	
SURVEYS		Bit Serial No. 99966 Table R.P.M. 120								Bit Serial No. 99966 Table R.P.M. 120								Bit Serial No. 99966 Table R.P.M. 120														
		Jet or Conventional - CONN Nozzle Size 9/16								Jet or Conventional - CONN Nozzle Size 9/16								Jet or Conventional - CONN Nozzle Size 9/16														
SLUSH PUMP RECORD		Kind at Ft. Deg. off								Kind at Ft. Deg. off								Kind at Ft. Deg. off														
No. 1		HOURS								HOURS								HOURS														
No. 2		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														
		WATER								CEL 300								CEL 300														
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		5:00 Rig To Spud 5:30 DRAG KELLY DOWN Pick up DRILL COLLAR 5:30 6:00 1/2 DRAG 6:00 8:00 2 8								RIG SERVICE 8:00 8:05 1/4 DRILLING 8:05 11:00 2 3/4 Pull out to CHECK R.T 11:00 11:05 1/2 Lay down DC 11:05 12:00 1/2 READ KELLY DOWN 12:00 1:00 1 PICK UP DR 1:00 1:30 1/2 Hole CAVING Lay down DC 1:30 2:00 1/2 RIG UP AND MIXER 2:00 3:00 1 1/2 MIXING MUD 3:00 4:00 1								RIG SERVICE 4:00 4:15 1/4 SET MUD 4:15 6:00 2 1/4 Pull out to CTM 6:00 8:30 2 1/4 WORK ON PUMP 8:30 9:00 1/2 CLEAN OUT MUD 9:00 10:00 1 Pick up D.C. UNDER 10:00 TO GET TO CTM 10:00 10:30 1/2 Pull out 2 DC. BREAK 10:30 11:00 1/2 CLEAN OUT Suction Piping Driller 11:00 12:00 1														
Driller		Joe Vitale								Driller A. COUSINEAU								Driller L. McClellan														

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

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

James

Approved by