

IMPERIAL (CANOL)

HOOSIER RIDGE

NO. 2

Drilling Authority No.

Date Issued

WELL NAME *Special Class - Operator Date No. 2*

FIELD *Midwest* Area: *Norman Wells*

LOCATION: Unit Section Grid

Latitude *36° 25' 30" N.* Longitude *100° 48' 11" W.*

From Established Reference Marker

Rig Release Date: *1-2-65*

Status *OK*

Information Release Date *1-2-65*

CHANGE OF NAME:

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



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 **IMPERIAL HOOSIER RIDGE #2**
 Permit No. Lease No.
Imperial Oil Limited Exploratory Licence No. **Not available**
(Permitter, Licensee, Lessee)
Imperial Oil Limited Exploratory Licence No. **Not available**
(Operator)
 Location: Unit **P** Section **15** Grid ~~XXXXXX~~ **65°30' 127°30'**
 Latitude **55°25'00" N** Longitude **127°32'11.25" W**
 From Established Reference Marker ~~XXXXXX~~
N. 4080' W. 4610' SE post of Hoosier #1 claim.

	DATE	DEPTH	Pool (S)
Spudded	Apr. 17/43		Interval(s) open to production
Suspended			
Resumed			
Finished Drilling			
Deepened			Elevation: Gr.
Complete (gas/oil)	XXXXXX		K.B. 276
Abandoned	Aug. 10/43	2718	Drilling Contractor & Rig No. I.O.L.
Rig released	Aug. 10/43	2718	Contractor's Licence No.

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 10 3/4			201	35	
2. 7			2120	25	
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sea	From	To	Rec.	From	To	Rec.
Sand & Gravel	0	+ 276	928	958				
Bosworth Sand	50	+ 226	1199	1208				
Upper Ft. Ck. Shale	150	+ 126	2018	2028				
Reef ls.	926	- 650	2051	2134				
lr. Ft. Ck. Shale	1390	- 1114	2334	2346				
Beavertail Rav. ls.	2160	- 1884						
Ramparts-Hare Ind.	2300	- 2024						
Bear Rock Dolomite	2570	- 2294						

LOG RECORD

Run No.	Type of Log	From	To
1	Electric	201	2446

SERVICING RECORD (Acidizing, Fracing, etc.)

CEMENTING RECORD (Plug, Squeeze, etc.)		PERFORATING RECORD (Bullet, Jet)		SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks
	836	184	C10				No acid.
	210	191	C10				
	Surface	0 6	0 6				

DRILL STEM TESTS

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

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

Company: Imperial Oil Limited

Sign'd by: (Signature) Well File Clerk

Total: November 15/61

Date: November 15/61

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

. HOOSIER NO. 2

Lease No. 1, Group - Hoosier Ridge Oil lot - Location

Registered owner - R. Harmon

Location - N 4080', W 6410' from S.E. post of Hoosier No. 1 claim

Elevation - 406

Date commenced - April 17th, 1943

Date completed - Aug. 9th, 1943

Type of rig - Rotary

Total depth - 2718 feet.

Casing record -

<u>Size</u>	<u>Weight</u>	<u>Length</u>	<u>Cemented</u>
10 $\frac{3}{4}$ "	45 $\frac{1}{2}$ #	201'	May 13th, 1943
7"	22 $\frac{1}{2}$ #	2120"	July 5th, 1943

836 ft. of 7" and 28 ft. of 70 $\frac{3}{4}$ " casing was recovered.

Water - 1020' fresh, 2718' salt

Gas - none detected

Oil - show at 2130 in cores

Est. initial capacity.

Log of formations - Depth in ft.

	Glacial alluvial deposits	0 to 50
	Bosworth sandstone	50 - 150
	(Upper shale zone	150 - 850
Fort Creek	(Bituminous " "	850 - 926
Formation	(Reef limestone "	926 - 1580
	(Lower shale " "	1380 - 2160
	Beavertail-Ramparts l.s.	2160 - 2300
	Hare Indian River shale	2300 - 2570
	Bear Rock dolomite	2570 - 2718 -

NOTICE OF INTENTION TO ABANDON A WELL

Notice to be forwarded, in duplicate, to the Director, Lands, Parks and Forests Branch, Department of Mines and Resources, Ottawa.

Notice is hereby given, as required by Section 53 of the P. & M. G. Regulations, dated January 28, 1943, that it is the intention on or about the 27th day of July 1943, to abandon Well No Hoosier 2 Elevation 406' feet, located on Hoosier Ridge Oil Location No. 1.

registered in the name of Imperial Oil Limited of Calgary, Alberta.

The reasons for abandonment are:- Insufficient oil saturation to indicate a successful producer, and salt water intrusion.

Oil, gas and water were encountered as follows and will be shut off as outlined below:-

Oil:- Slight show in cores at 2130'. Also in bailer from same depth.

Gas:- None detected.

Water:- At 1020' fresh water was determined to be entering hole. When hole stood at 2718 salt water would rise to surface.
(water rose to (how near the surface)

The depth drilled to was 2718 feet and the following casings were inserted:-

Diameter	Depth Feet	Weight	Free, set or cemented	The intention is to withdraw feet
10 $\frac{3}{4}$ "	201	45.5#	35 sacks	28'
7"	2120	22 #	25 sacks	836'

Abandonment was carried out as follows:-

1. 20 sack cement plug from 2554' to 2448' to isolate salt water.
2. 10 sack cement plug from 2130' to 2080' to plug bottom of 7" casing.
3. 10 Sack cement plug from 836' to 814' to plug the remaining 7" casing.
4. 10 sack cement plug from 210' to 191' to plug bottom of 10 $\frac{3}{4}$ " casing.
5. Wooden plug in top of hole.

AT WELLS

Signature *Allen H. Taylor*
Title Field Superintendent

APPROVED *J. S. Stewart*
J. S. Stewart

Address Norman Wells, N.E.T.
Signature *J. M. Ford*
Title Manager, Imperial Oil Limited, Producing Department
Address 606 - 2nd Street, Calgary, Alberta.

Supervisory Engineer, Dept. of
Mines and Resources
Date Lands, Parks and Forest Branch
Date August 16, 1943

POOR COPY

Hoosier Ridge Oil Location No. 1

Imperial Oil Limited
by its agent - R. Hanson

Hoosier 2

April 17, 1943

Hoosier Ridge, H.B.T.

W 4000' W6/10°

Area S.E. Part
(Hoosier No. 1. Claim)

406

2718

Portable Rotary Rig (I. O. L. Unit No. 4)

2 1/2" at 913'

1020' (fresh) 2718' (salt)

To surface in both cases.

as above.

None

2131 (very slight)

10 1/2"	45 1/2"	New	201	May 13, 1943	35
7"	22 1/2"	New	2120	July 5, 1943	25

Sand and Gravel	0	50
Bosworth s. s.	50	150
Upper Fort Creek sh.	150	926
Reef Formation ls.	926	1380
Lower Fort Creek sh.	1380	2160
Beavertail Ramparts ls.	2160	2300
Ramparts-Bare Indian River sh.	2300	2570
Bear Rock Dolomite	2570	

Slight oil show in cores
at 2131'

This well was drilled to test for oil in the Reef Formation limestone, in the Beavertail limestone and in the Bear Rock dolomite. Fresh water with a slight sulphurous odour was encountered and tested at 1020'. Very slight oil showed in cores at 2131' and was in bailer runs from the same depth. Salt water was encountered at depth 2718 and drilling discontinued. A cement plug was placed to isolate the salt water. The hole section 2120 to 2448 was acidised but yielded no possibilities of commercial oil.

It was decided to abandon and 10 sack cement plugs were placed at 2130', 836' and at 210'. 836' of 7" casing and 28' of 10 1/2" casing was recovered. A wooden plug in the top of the hole, completed the abandonment program.

POOR COPY

DEPARTMENT OF MINES AND TECHNICAL SURVEYS
Lands, Parks and Forests Branch

Notice of intention to begin boring operations

Notice must be given at least 10 days before work is begun.

April 17 1943

To the Petroleum Engineer,
701 Public Building,
Calgary, Alberta.

Sir:

Notice is hereby given as required by Section 25a of the Petroleum and Natural Gas Regulations that it is our intention to begin boring a well on

P. & N.G. Lease No. _____ on or about the 3 day of May 1943

Standing in the name of **Imperial Oil Limited**

and located on **Hoodier Ridge Oil location No. 1.**
(Give below distances from boundaries)

Being **6,400 feet West** of E. Bdy line and **4,300 feet North** of S. Bdy

The well shall be known as **Hoodier Ridge** No. 2

We intend using the following equipment:

Type of Drilling Rig	Rotary	CASING			New or Used	Depth	Used
		Size	Weight	Thread			
1st		10 1/2"	52#		New	250	Cemented
2nd		7"	15#		New	1500	Cemented
3rd							
4th							
5th							
6th							
7th							

We expect to encounter the following oil, water and gas horizons and are taking care of them as follows. We will inform you of any changes in this program.

Water None

Oil and Gas at 1500 feet.

The well is to be drilled by Company or Contractor. If contractor give name

The officers in charge of the operation will be

Mr. W. L. Taylor
Norman Wells, N. W. T.

IMPERIAL OIL LIMITED.

Approved *J. S. Stewart*
Supervisory Engineer

V. J. Hard
Asst. Manager