

IMPERIAL

CANOL. MAC

NO. 1

WELL NAME Imperial Canal No. 1

FIELD Wildcat

Area: Norman Wells

LOCATION: Unit

Section

Grid

Latitude 67°15'30" N.

Longitude

126°59' W.

From Established Reference Marker

Rig Release Date: 6-11-43

Status D.S.A.

Information Release Date 6-11-45

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>
MAR 22 1952	<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>



CANADA

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 CANOL WAC #1**  
 Permit No. **P & HC # 177** Lease No. ....  
**Imperial Oil Limited** Exploratory Licence No. **Not available**  
(Permitter, Licensee, Lessee)  
**Imperial Oil Limited** Exploratory Licence No. **Not available**  
(Operator)  
 Location: Unit **B** Section **76** Grid **65°20' 126°45'**  
 Latitude **65°15'30" N.** Longitude **126°59' W.**  
 From Established Reference Marker **S. 9946' W. 18680 from Imperial Discovery #1**

	DATE	DEPTH	Pool (S)
Spudded	Aug. 17/43		Interval(s) open to production
Suspended			
Resumed			
Finished Drilling			
Deepened			Elevation: Gr. ....
Complete (gas/oil)			K.B. <b>167</b>
Abandoned	Nov. 6/43	3146	Drilling Contractor & Rig No. <b>I.O.L.</b>
Rig released	Nov. 6/43	3146	Contractor's Licence No. ....

**CASING RECORD**

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. <b>10 3/4</b>			<b>286</b>	<b>70</b>	
2. <b>7</b>			<b>2097</b>	<b>50</b>	
3.					
4. <b>2 1/2</b>			<b>2255</b>		
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depths	Sub-Sea	From	To	Rec.	From	To	Rec.
Recent	297	- 130	2085	2210				
Shaley Phase	810	- 643	2262	2292				
Sandy Phase	960	- 793	2370	2386				
Upper Fort Creek	1330	-1163	2496	2504				
Bituminous Zone	2000	-1833	2522	2540				
Saturated Zone	2097	-1930	2553	2560				
Unsaturated Zone	2100	-1933	3092	3110				
Basal Limestones	2510	-2343	3118	3146				
Lower Fort Creek	2589	-2422						
Beavertail Re-parts	3130	-2963						

**LOG RECORD**

Run No.	Type of Log	From	To
<b>1</b>	<b>Electric</b>	<b>287</b>	<b>3143</b>

CEMENTING RECORD (Plug, Squeeze, etc.)			PERFORATING RECORD (Bullet, Jet)			SERVICING RECORD (Acidizing, Fracing, etc.)					
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
											No Acid

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.P.B.H.P.	F.P.B.H.P.	I.H.P.	F.H.P.	REMARKS
1		Swabbing Test	2097	2570										Rec. 15 gals. fresh water in 1 hour (Water believed to be returning from drilling mud water loss)

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

Company: Imperial Oil Limited  
 Signed by: COPY (ORIGINAL) R. F. FRICH  
 Total: Well File Clerk  
 Date: November 16/61

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

POOR COPY

0

*John Smith*

*John Smith*

**POOR COPY**

August 13

43

is.

Notice is hereby given as requested by well No. 1 of the Petroleum and Natural Gas Regulations, dated January 27, 1943, that it is our intention to begin work on a well on the south bank of the Mackenzie River near **Well No. 1 Oil Location** 2722

of **August 19 43**

Starting in the name of **Imperial Oil Limited by W. B. Dingle** and located **on the south bank of the Mackenzie River near Well**

five miles distance from the nearest

being **9970 feet** south of **Well No. 1** and **18680 feet** west of **Discovery Well No. 1**

The well shall be known as **Well No. 1**

to be drilled using the following equipment:-

Type of Drilling Rig	Rotary		CASING			
	Dia.	Length	Brand	Year Used	Quantity	Remarks
	10	420	8	New	300	cemented
	7	260	8	New	1975	"

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

**Water below 2060**

**Gas & oil 1975'**

**probable depth of well 2350'**

The well is to be drilled by **Imperial Oil Limited** Contractor. The contractor gives the **Mobil Drilling Corp.**

The officers in charge of the operations will be:

At the well *W. B. Dingle*

Name of permittee **Field Superintendent 1** Signature **Imperial Oil Limited**

Approved \_\_\_\_\_ Title \_\_\_\_\_

*J. S. Stewart*  
**Supervisory Engineer**

MAC. NO. 1 LOCATION WELL NO. 1

Lease - Mac. No. 1 Location

Registered owner - W. S. Dingle for Imperial Oil

Location - South bank Mackenzie River near Camp Canal 9950 ft.8 and  
19680 ft. W. of Discovery well No. 1

Elevation -

Date commenced -

Date completed -

Type of rig -

Total depth - 3146 feet.

Casing record -

<u>Size</u>	<u>Weight</u>	<u>Length</u>	<u>Cemented</u>
10 <sup>3/4</sup> "	40.5 lbs.	286'	no withdrawal
7"	24 lbs.	2097	870' recovered

The hole was abandoned as there was not sufficient oil saturation to make a commercial producer.

A very slight oil saturation in the uppermost section of the reef limestone from 2097 to 2102 was observed.

No gas was detected.

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. & N. C. Regulations, dated January 28th, 1943, that it is the intention on or about the day of November 6, 1943, to abandon Well Mac No. 1. Elevation 297 feet, location on Imperial Oil Limited, Mac No. 1. Oil and Gas Permit 177 - Registered in the name of Imperial Oil Limited by its agent W.B. Dingle, of Calgary, Alberta. The reasons for abandonment are:- Not sufficient saturation to make a commercial producer. Oil, gas and water were encountered as follows and will be shut off as outlined below:-

Oil:- Very slight oil saturation in the uppermost section of the Reef formation from 2097 to 2102'.

Gas:- Believe to be associated with oil. None was detected.

Water:- 15 gal. of water/hr. entered hole during a swabbing test while testing the zone from 2097' to 2570'.

Water rose to (How near the surface):- This water is believed to be fresh and may be returns of drilling mud water loss.

<u>Diameter</u>	<u>Depth Feet</u>	<u>Weight</u>	<u>Free, set or cemented</u>	<u>The intention is to withdraw feet.</u>
10 3/4"	286'	40.5#	70 sacks	No withdrawal
7"	2097'	24 #	50 sacks	870' withdrawn

Abandonment procedure:- The whole was plugged from 3095' to 3125' with 15 sacks of cement and from 2570' to 2630' in order to test for oil in the reef formation. When it was evident that oil could not be recovered in commercial quantities a 25 sack cement plug was placed from 2052' to 2138' to shut off the reef formation and 870' of 7" casing was backed off. Then another 10 sacks cement plug was placed from 276 to 296' to shut off the base of the surface casing. A final 3 sack cement plug was placed in the top of the hole.

Approved:

Dr. J. S. Stewart,  
Supervisory Engineer,  
Bureau of Mines and Resources,  
Lands, Parks and Forests Branch.

At the Wells

Signature \_\_\_\_\_  
Walker L. Taylor,  
Title Field Superintendent 1  
Address - Norman Wells, N.W.T.

Signature \_\_\_\_\_  
J. H. McLeod,  
Title Manager.  
Address - 604-606 2nd Street, West,  
Calgary, Alberta.

OFFICE 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. S. Regulations, dated January 20th, 1943, that it is the intention on or about the day of **November 6th 1943** to abandon Well Mac No. 1

Elevation **297** feet, located on **Imperial Oil Limited - Mac No. 1**  
**Oil and Gas Permit 177**

Registered in the name of **Imperial Oil Limited**, of **Calgary, Alberta**,  
by its agent - **W. B. Dingle**  
The reasons for abandonment are:

**Not sufficient saturation to make a commercial producer**

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

**Oil:-** Very slight oil saturation in the uppermost section of the Reef Formation from 2097' to 2102'.

**Gas:-** Believed to be associated with oil. None was detected.

**Water:-** 15 gals. of water/hr entered the hole during a swabbing test while testing the zone from 2097' to 2570'.

This water is believed to be fresh and may be returns of drilling mud water loss.

The depth drilled to was **3146'** feet and the following casings were inserted:-

Diameter	Depth Feet	Weight	Free, set or cemented.	The intention is to withdraw feet.
10 1/4"	286'	40.5#	cemented with 70 sacks	No withdrawal
7"	2097'	24#	50 sacks	870' withdrawn

**Abandonment procedure:** The hole was plugged from 3095' to 3125' with 15 sacks of cement and from 2570' to 2630' in order to test for oil in the Reef Formation. When it was evident that oil could be recovered in commercial quantities a 25 sack cement plug was placed from 2062' to 2138' to shut off the Reef Formation, and 870' of 7" casing was backed off. Then another 10 sack cement plug was placed from 276' to 296' to shut off the base of the surface casing. A final 3 sack cement plug was placed in the top of the hole.

Approved:

*J. S. Stewart*

Dr. J. S. Stewart  
Supervisory Engineer  
Bureau of Mines and Resources  
Lands, Parks and Forests Branch

At the Wells

Signature

*Walker L. Taylor*

Title Field Superintendent 1

Address Murray Wells, N. T. P.

Signature

*J. E. McLeod*

Title Manager  
Imperial Oil Ltd., Producing Dept.

Address 604-606-2nd Street West,  
Calgary, Alberta.

Date:

**POOR COPY**

**NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS**

This notice is being furnished, in duplicate, to the Director, Lands, Parks and Forests Branch, Department of Mines and Technical Surveys, Ottawa, at least 15 days before work is begun.

August 13 1943

Sir:

Notice is hereby given as required by Section 94 of the Petroleum and Natural Gas Regulations, dated January 27, 1943, that it is our intention to begin drilling a well on P. & N. G. Permit No. **Mac No. 1 Oil Location** on or about the 27th day

of **August 1943**

standing in the name of **Imperial Oil Limited by W. B. Dingle** and located on the south bank of The MacKenzie River near Canal

(Give below distances from boundaries)

Being 9950 feet south of ~~xxx~~ and 18680 feet west of ~~xxx~~ **Discovery Well No 1**  
The well shall be known as **Mac** No. 1.

We intend using the following equipment:-

Type of drilling rig	Rotary				New		
CASING							
Size	Weight	Thread	Brand	How Used	Depth	How set	
10	42#	8		new	300	cemented	
7	26#	8		new	1975	"	

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

Water - below 2060

Gas & oil 1975'

probable depth of well 2350'

The well is to be drilled by ~~xxxxx~~ or Contractor. If contractor give name. **Noble Drilling Corp.**

The officers in charge of the operations will be:

At the well: *W. Stewart*

Of the company

Name of permittee **Field Superintendent** Signature *J. S. Stewart*  
**Imperial Oil Limited.**

Approved

Title **Manager, Imperial Oil Limited,**  
**Producing Department**

*J. S. Stewart*  
**Supervisory Engineer**