

IMPERIAL WHIRLPOOL  
No. 1.

Drilling Authority No.

Date Issued

WELL NAME Imperial Whirlpool No. 1

FIELD Wildcat

Area: Norman Wells

LOCATION: Unit

Section

Grid

Latitude 65°32'25" N.

Longitude 129°13'17" W.

From Established Reference Marker

Rig Release Date: 30-8-46

Status D &amp; A

Information Release Date 30-8-48

## 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.  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.
MAR 22 1962	



# CEMENTING RECORD (Plug, Squeeze, etc.)

## PERFORATING RECORD (Bullet, Jet)

### SERVICING RECORD (Acidizing, Freeding, etc.)

No acid

## DRILL STEM TESTS

### PRESENT STATUS OF WELL

Imperial Oil Limited  
 COPY ( )  
 Well File Clerk  
 November 20/1961

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

Well file 39490

NOTICE OF INTENTION TO SUSPEND A WELL

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

Notice is hereby given, as required by Section 78 of Order in Council P.C. 5059, dated June 30, 1944, that it is the intention on or about the 30th day of August, 1946 to suspend Well Whirlpool No. 1 which is registered in the name of Imperial Oil Limited (Concession No. 8).

The reasons for suspension are: The machinery used was installed on frozen ground during the winter at a time when the frozen ground is used as a foundation for winter operations only, with the anticipation that the well would be completed before the spring thaw. However, due to extra hard formation encountered this operation was carried on into the summer causing the complete sub-structure to settle into the muskeg. After drilling to 6,417 feet, which is close to the maximum depth for this type of equipment when rigged up on a solid foundation, we found it necessary to discontinue operations, as it was unsafe for personnel to continue drilling.

Oil, gas and water will be shut off as outlined below:

Oil and gas: None

Water: None

Elevation: 476' (Est.)

Total Depth: 6,417 feet

The following casings were inserted:

<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 $\frac{3}{4}$ "	257'	40.5#/ft.	Cemented 75 sacks	None

Remarks: The suspension procedure will be carried out by spotting two cement plugs, capping the surface casing and marking the location with a metal marking plate bearing the inscription "Imperial Oil Limited - Whirlpool No. 1".

The plugs will be placed as follows:

- |     |                     |   |                    |
|-----|---------------------|---|--------------------|
| (1) | From 2800' to 2850' | - | 25 sacks of cement |
| (2) | From 225' to 275'   | - | 25 sacks of cement |

(bailed drilling fluid out of 10 $\frac{3}{4}$ " casing to top of cement plug - 225 ft.)

Approved:

At The Wells:

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

*H. S. Wilson*  
(Signature) H. S. Wilson,  
Field Superintendent  
Imperial Oil Limited -  
Norman Exploration  
Norman Wells, N. W. T.

cc: Dept. Mines & Resources (2)✓  
W. L. Taylor, Calgary (2)  
Dr. C. B. Hopkins, Toronto (2)  
Petroleum Engineers 91.0  
Geological Department

NOTE: All depths to be reported from top of rotary table if rotary used; derrick floor if standard tools used.

DEPARTMENT OF MINES & RESOURCES

NORTHWEST TERRITORIES BRANCH

WELL COMPLETION REPORT

(As required by Section 81, sub-clause 3 of Petroleum & Natural Gas Regulations.)

Field or Region: Norman Wells, N. W. T.

Designation of Well: Whirlpool No. 1

Lease or Permit No.: Imperial Oil Limited Concession No. 8

Registered Owner: Imperial Oil Limited

Location (Survey Description): S 58,343', W 61,224' of P.M. 0-3

Elevation: 476' (Est.)

Date Operations Commenced: January 27, 1946

Date Completed: August 30, 1946

Type of Rig: Easco Rotary

Completed Depth: 6,417'

Deviations from Vertical: 120' -  $\frac{3}{4}$ °; 150' -  $\frac{1}{2}$ °; 270' - 1°; 475' - 1°; 650' -  $1\frac{1}{2}$ °

CASING AND TUBING RECORD

<u>Size</u>	<u>Weight</u>	<u>Thread</u>	<u>Depth</u>	<u>Cemented with</u>
10 $\frac{3}{4}$ "	40.5/ft.	8R	257'	75 sacks Cement
(No other strings of casing run)				

Distance between Rotary Table (or derrick floor) and Well Head: 10'

Gun Perforations: None

Nitro-glycerine: None

Initial Acid Treatments: None

Initial Productive Data: None

Water Encountered and How shut off: None

Remarks:

suspended  
Well ~~abandoned~~ as a dry hole on August 30th, as per ~~abandonment~~ suspension notice.

GEOLOGIC LOGS

Electric Logs Taken: (1) 257' - 3787'; also velocity tests by Seismograph at the depth of 3787'.

## Cores Taken:

(1) 803' - 815'  
 (2) 956' - 974'  
 (3) 1634' - 1649'  
 (4) 2111' - 2121'  
 (5) 2635' - 2653'  
 (6) 2840' - 2858'  
 (7) 2858' - 2876'

(8) 2957' - 2973'  
 (9) 3204' - 3220'  
 (10) 4048' - 4063'  
 (11) 4553' - 4599'  
 (12) 5235' - 5244'  
 (13) 5433' - 5448'  
 (14) 6289' - 6307'

SUMMARY LOG

<u>Depth</u>	<u>Nature of Rock</u>
0' - 50'	Surface deposits - sands, silts, etc.
50' - 920'	Imperial Series
920' - 955'	Fort Creek Series
955' - 2,828'	Beavertail Ramparts
2,828' - 3,266'	Bear Rock
3,266' - 5,426'	Mount Renning Dolomite
5,426' - 6,417'	Dodo Formation

September 11/46  
 Norman Wells, N. W. T.

cc: Dept. of Mines and Resources (2)  
 Toronto  
 Mr. W. L. Taylor  
 Petr. Engnr. 91.0

# NOTICE OF INTENTION TO BEGIN BORING OPERATIONS

NOTICE to be forwarded, in duplicate, to the Director, Lands, Parks, and Forests Branch, Department of Mines and Resources, Ottawa, at least 15 days before work is begun.

January 10th 1946

Sir:

Notice is hereby given as required by Section <sup>57</sup> ~~24~~ of the Petroleum and Natural Gas Regulations, dated <sup>June 30, 1944</sup> ~~September 1, 1942~~, that it is our intention to begin boring a well on P. & N. G. Permit No. 8 on or about the 27th day of January 1946

Standing in the name of Imperial Oil Limited

and located 58,343 feet south and 61,224 feet west of P.M.O-3 of the Department of Interior "Mackenzie River" traverse  
(Give below distances from boundaries)

Being Approx. 24 miles from north Boundary and 5.5 miles from east Boundary.

The well shall be known as Whirlpool No. 1

We intend using the following equipment:-

Type of drilling rig: Emsco Rotary

~~Machine~~ Used

## CASING

Size	Weight	Thread	Brand	New Used	Depth	How Set
10 3/4"	40.5 #/ft.	8R	Spang	New	258'	Cemented
7"	24.0 #/ft.	8R	Spang	New	To be cemented	

at top of producing horizon if commercial production is encountered.

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 - none

Possible Oil and Gas Horizons - 1500'  
2600'  
3650'  
5250'

Maximum Depth 6000'

The well is to be drilled by Company ~~and contractor~~. If contractor give name.

The officers in charge of the operations will be:

At the well

Chas. Visser  
Chas. Visser  
Field Superintendent

Of the Company

Name of Permittee

Imperial Oil Limited

Signature

P. F. Shannon  
P. F. Shannon

Approved

Title Manager

Supervisory Engineer  
Bureau Lands, Parks and Forests Branch  
Department of Mines and Resources

P.T.O.





File No. \_\_\_\_\_  
Drilling Authority No. \_\_\_\_\_

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area NORMAN WELLS

Date 11th July 1971

TO: The Oil Conservation Engineer

RE Imperial Whirlpool No. 1

Location 65.54027°N., 129.22139°W.

Status D & A

August 1946

This location was inspected by the undersigned on 11th July 1971

The location is in ~~satisfactory~~ unsatisfactory condition

T.D. 6417

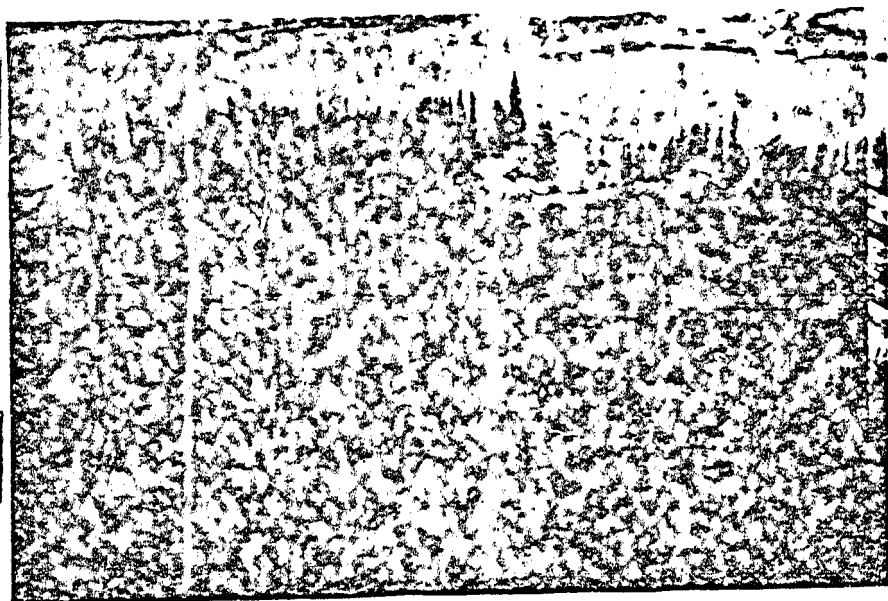
The following items require attention

1. Remove timbers from around slush pit, bury timbers in slush pit and backfill level.
2. Paint identifier pipe and plate fluorescent orange.
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

Other comments and recommendations (Include Map, if necessary for clarity)

Identified as 101 Whirl Pool No. 1

Fair amount of junk on ground but grown over.



Inspected by M. D. Thomas