

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 & 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.
MAR 22 1962	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.



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 WHIRLPOOL #1**Permit No. **P & NG #8**

Lease No.

Imperial Oil Limited
(Operator, Licensee, Lessee)

Exploratory Licence No.

Not available

Imperial Oil Limited
(Operator)

Exploratory Licence No.

Not available

Location: Unit **H**Section **73**Grid **65°40' - 129°00'**Latitude **65°32'29.06" N**Longitude **129°3'16.87" W.**From Established Reference Marker **S. 58.343 N. 61.224 of PM 0-3**

	DATE	DEPTH	Pool (S)
Spudded	Jan. 27/45		Interval(s) open to production
Suspended			
Resumed			
Finished Drilling			
Deepened			Elevation: Gr.
Complete (gas/oil)			K.B. 346
Abandoned	Aug. 30/46	6417	Drilling Contractor & Rig No. I.O.L.
Rig released	Aug. 30/46	6417	Contractor's Licence No.

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at--	Sacks of Cement	Method
1. 10 3/4			257	75	
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sea	From	To	Rec.	From	To	Rec.
Surface Deposits	0	+ 346	803	815				
			956	974				
Imperial Series	50	+ 296	1634	1649				
Fort Ck. Series	920	- 574	2111	2121				
Beavertail Ramparts	955	- 609	2635	2653				
Bear Rock	2828	- 2482	2840	2876				
Mount Ranning Dol.	3266	- 2920	2957	2973				
Dodo Formation	5426	- 5080	3204	3220				
			4048	4063				
			4553	4559				
			5235	5244				
			5433	5448				
			6289	6307				

LOG RECORD

Run No.	Type of Log	From	To
1	Electric	257	3787

CEMENTING RECORD (Plug, Squeeze, etc.)

REFURBISHING RECORD (Bullet, Jet)				SERVICING RECORD (Actuating, Precise, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks

PERFORATING RECORD (Bullet, Set)

SERVICING RECORD (Acquiring, Freezing, etc.)					
Date	From	To	Remarks	Date	From

DRILL STEV TESTS

CROWN STATE TESTS										REMARKS			
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.
												NO TESTS RUN	

THE SAVAGE IN NINETEEN-THIRTY-SEVEN

Oil	(Interval)	Company	Imperial Oil Limited
Gas	(Interval)	Signed by	COPY [Signature]
Dry	Abandoned	Total	Well File Clerk
Susp.		Date	November 20/1961

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

Imperial Oil Limited

COPY [REDACTED] 10/10/1991

Wall File Clerk

November 20/1991

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

Well 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. 5099, 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</u>	<u>Free, set or Weight</u>	<u>cemented</u>	<u>The intention is to withdraw</u>	<u>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)
Petrobium 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

Elevations: 476° (Est.)

Date Operations Commenced: January 27, 1946

Date Completed: August 30, 1946

Type of Rig: Enso Rotary

Completed Depth: 6,417°

Deviations from Vertical: 120° - 3°; 150° - 3°; 270° - 1°; 475° - 1°;
650° - 1°

CASING AND TUBING RECORD

<u>Size</u>	<u>Weight</u>	<u>Thread</u>	<u>Depth</u>	<u>Cemented with</u>
10 $\frac{1}{2}$ "	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~~ notice.

GEOLOGIC LOGS

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

Cores Taken:

(1)	803 ^f	-	815 ^f	(8)	2957 ^f	-	2973 ^f
(2)	956 ^f	-	974 ^f	(9)	3204 ^f	-	3220 ^f
(3)	1634 ^f	-	1649 ^f	(10)	4048 ^f	-	4063 ^f
(4)	2111 ^f	-	2121 ^f	(11)	4553 ^f	-	4559 ^f
(5)	2635 ^f	-	2653 ^f	(12)	5235 ^f	-	5244 ^f
(6)	2840 ^f	-	2858 ^f	(13)	5433 ^f	-	5448 ^f
(7)	2858 ^f	-	2876 ^f	(14)	6289 ^f	-	6307 ^f

SUMMARY LOG

<u>Depth</u>	<u>Nature of Rock</u>
0 ^f - 50 ^f	Surface deposits - sands, silts, etc.
50 ^f - 920 ^f	Imperial Series
920 ^f - 955 ^f	Fort Creek Series
955 ^f - 2,828 ^f	Beavertail Ramparts
2,828 ^f - 3,266 ^f	Bear Rock
3,266 ^f - 5,426 ^f	Mount Ronning Dolomite
5,426 ^f - 6,417 ^f	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 57 of the Petroleum and Natural Gas Regulations, dated ~~January 30, 1946~~, 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 EmSCO Used

CASING

Size	Weight	Thread	Brand	New	Used	Depth	How Set
10 $\frac{3}{4}$ "	40.5 #/ft.	SR	Spang	New		258'	Cemented
7"	24.0 #/ft.	SR	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 ~~EmSCO~~. 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 ~~poor~~ unsatisfactory condition

T.D. 6417'

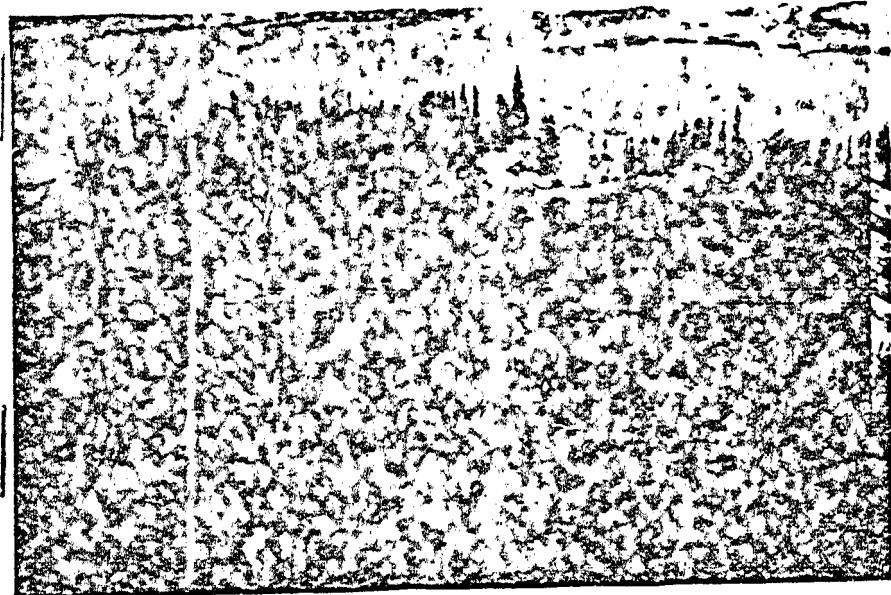
The following items require attention

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 Whirlpool No. 1

Fair amount of junk on ground but grown over.



Inspected by M. D. Thomas

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
IAND 52-90-14 (9-69)

M. D. Thomas
District 2