

IMPERIAL  
JUDILE

770. 1

Drilling Authority No.

Date Issued

WELL NAME Imperial Jubile No. 1

FIELD Wildcat

Area: Norman Wells

LOCATION: Unit

Section

Grid

Latitude 65°29'24" N.

Longitude

127°35'56" W.

From Established Reference Marker

Rig Release Date: 2-9-45

Status D &amp; A

Information Release Date 2-9-47

## CHANGE OF NAME:

| DATE RECEIVED | INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAR 22 1945   | <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> |



Date Issued: \_\_\_\_\_

## WELL COMPLETION DATA

Well name and number.....IMPERIAL JUDILE #1

Permit No. **P & NG 13** Lease No.

|                                                       |                         |               |
|-------------------------------------------------------|-------------------------|---------------|
| Imperial Oil Limited<br>(Permitter, Licensee, Lessee) | Exploratory Licence No. | Not available |
|-------------------------------------------------------|-------------------------|---------------|

Imperial Oil Limited      Exploratory Licence No.      Not available  
(Operator)

Location: Unit H Section 40 Grid 65°30' - 127°30'

Latitude  $65^{\circ}29'23.6''$  N. Longitude  $177^{\circ}35'58.2''$  W.

From Established Reference Marker..... N. 10130' W. 11170' from right bank of

Wackenzie River, about 26 miles downstream from Norman Wells.

|                    | DATE       | DEPTH |
|--------------------|------------|-------|
| Spudded            | July 22/45 |       |
| Suspended          |            |       |
| Resumed            |            |       |
| Finished Drilling  |            |       |
| Deepened           |            |       |
| Complete (gas/oil) |            |       |
| Abandoned          | Sept. 2/45 | 2815  |
| Rig released       | Sept. 2/45 | 2815  |

Pool (S) .....

Interval(s) open to production .....

Elevation: Gr. 297

K.B. 307

Drilling Contractor & Rig No. I.O.I.

Contractor's Licence No. ....

## CASING RECORD

| Casing Size (Inches) | Weight | Amount | Set at-- | Sacks of Cement | Method |
|----------------------|--------|--------|----------|-----------------|--------|
| 1. 10 $\frac{1}{2}$  |        | 200    | 290      | 75              |        |
| 2.                   |        |        |          |                 |        |
| 3.                   |        |        |          |                 |        |
| 4.                   |        |        |          |                 |        |
| 5.                   |        |        |          |                 |        |
| 6.                   |        |        |          |                 |        |

[illegible]

## LOG RECORD

| Run No. | Type of Log | From | To   |
|---------|-------------|------|------|
| 1       | Electric    | 290  | 2630 |
| 2       | Electric    | 2580 | 2815 |

| 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  |
|                                        | 2585<br>265 | 2625<br>305 | 0 20<br>0 20 |                                  |      |    |         |                                             |      |    | No acid. |

## DRILL STEM TESTS

| No. | Date | Formation | From | To   | V.O.<br>Mins. | I.S.I.<br>Mins. | F.S.I.<br>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. | P.H.P. | REMARKS                        |
|-----|------|-----------|------|------|---------------|-----------------|-----------------|--------------|--------------|------------|------------|--------|--------|--------------------------------|
| 1   |      | Kee Sparg | 1321 | 1362 |               |                 |                 |              |              |            |            |        |        | Recovered 30' of drilling mud. |
| 2   |      | Bear Rock | 2638 | 2661 |               |                 |                 |              |              |            |            |        |        | Packer leaked                  |
| 3   |      | Bear Rock | 2630 | 2673 |               |                 |                 |              |              |            |            |        |        | Packer leaked                  |
| 4   |      | Bear Rock | 2628 | 2673 |               |                 |                 |              |              |            |            |        |        | Recovered 60' drilling mud.    |

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

Company Imperial Oil Limited

Signed by COPY ( ORIGINAL ) R. F. FINCH

Total Well Pile Clerk

Date November 16/61

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

35235

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... ~~Northwest Territories~~... Designation of well... Judith No. 1...  
Lease or Permit No... P and N G No. 3... Registered owner... Imperial Oil Limited...  
Location (Survey description) N10130' W1170 of PM53... Elevation... 437 (RT)...  
Date Operations commenced... July 22, 1945... Date completed... Sept. 2, 1945...  
Type of Rig... Esso Skid Rotary... Completed depth... 2315'...  
Deviations from Vertical... 135'-00°, 198'-10°, 289'-10°, 500'-10°, 900'-10°, 1470'-00°...

CASING & TUBING RECORD

| Size                                                                                         | Weight           | Thread                         | Depth      | Cemented with                |  |  |  |
|----------------------------------------------------------------------------------------------|------------------|--------------------------------|------------|------------------------------|--|--|--|
| <u>10 3/4"</u>                                                                               | <u>40.5#/ft.</u> | <u>8R</u>                      | <u>290</u> | <u>75 sacks - July 24/45</u> |  |  |  |
| .....                                                                                        | .....            | No other strings of casing run |            |                              |  |  |  |
| .....                                                                                        | .....            |                                |            |                              |  |  |  |
| Distance between Rotary table (or derrick floor) and well head... <u>10' 10"</u>             |                  |                                |            |                              |  |  |  |
| Gun Perforations... <u>none</u>                                                              |                  |                                |            |                              |  |  |  |
| .....                                                                                        |                  |                                |            |                              |  |  |  |
| Nitro-glycerine... <u>none</u>                                                               |                  |                                |            |                              |  |  |  |
| Initial Acid treatments... <u>none</u>                                                       |                  |                                |            |                              |  |  |  |
| .....                                                                                        |                  |                                |            |                              |  |  |  |
| Initial Production Data... <u>none</u>                                                       |                  |                                |            |                              |  |  |  |
| .....                                                                                        |                  |                                |            |                              |  |  |  |
| Water encountered and how shut off... <u>none</u>                                            |                  |                                |            |                              |  |  |  |
| Remarks: <u>Well abandoned as a dry hole on September 2, 1945 as per abandonment notice.</u> |                  |                                |            |                              |  |  |  |
| .....                                                                                        |                  |                                |            |                              |  |  |  |
| .....                                                                                        |                  |                                |            |                              |  |  |  |

GEOLOGIC LOGS

Electric Logs taken... (1) 290' to 2630'... (2) 2580' to 2805'...  
Cores taken... (a) 1321' to 1362'... (2) 1589' to 1605'... (3) 2307' to 2348'...  
(4) 2628' to 2673'... (5) 2805' to 2815'...

SUMMARY LOG

Depth

Nature of Rock

(if more space required use back of page)

p.t.o.

SUMMARY LOG

| <u>Depth</u>   | <u>Nature of Rock</u>           |
|----------------|---------------------------------|
| 0' to 60'      | Recent                          |
| 60' to 315'    | Cretaceous                      |
| 315' to 1252'  | Imperial Series                 |
| 1252' to 2306' | Fort Creek Series               |
| 1252' to 1305' | Bituminous Zone                 |
| 1305' to 1725' | Reef Limestone                  |
| 1725' to 1835' | Basal Limestone                 |
| 1835' to 2306' | Lower Shale                     |
| 2306' to 2608' | Beavertail - Ramparts Limestone |
| 2608' to 2815' | Bear Rock Dolomite              |

cc: Dept. of Mines and Resources (2) ✓  
Toronto  
Edmonton  
Mr. P. F. Shannon  
Petr. Engr. 9L.O V.R.1.

35235

JUDIE NO. 1.

Coordinates: N. - 10,130'  
 W. - 11,170'  
 (of P. M. 53)

Elevation: - 457'  
 (Rotary Table)

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0' - 60'      | Recent. Fine, surface sands and silts.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 60' - 315'    | Cretaceous. Dark soft shales with basal sandstone present from 270' - 315'.                                                                                                                                                                                                                                                                                                                                                                                   |
| 315' - 1252'  | Esperal Series. The Bosworth member extended to 653'. Impedence peak at 710'.                                                                                                                                                                                                                                                                                                                                                                                 |
| 1252' - 1305' | Fort Creek Shales. Dark bituminous shales with pyrite quite common near the base.                                                                                                                                                                                                                                                                                                                                                                             |
| 1305' - 1835' | Reef limestone member. The reef proper extended to 1725'. Grey to brown, fine grained to crystalline dense limestone, fossiliferous, (chiefly corals), and containing much calcite veining and crystals; slight tust with acetone, (very little local oil staining present). The basal limestone beds (1725' - 1835') were found to be quite shaley. Cored from 1521' - 1362'. No formation fluid recovered in formation test. Also cored from 1539' - 1605'. |
| 1835' - 2306' | Lower Fort Creek Shales. Becoming limey near the base.                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2306' - 2495' | Beavertail-Ramparts limestone. Dark gray to brown, finely crystalline, hard, dense, massive limestones. Calcite veining quite common. Cored from 2307' - 2348'.                                                                                                                                                                                                                                                                                               |
| 2495' - 2608' | Beavertail-Ramparts limestone and shales. Grey limestone with shale beds.                                                                                                                                                                                                                                                                                                                                                                                     |
| 2608' - 2815' | Bear Rock dolomite. Massive, hard, dense, crystalline to granular, brownish dolomitic limestone. Anhydrite common below 2675'. Cored from 2628' - 2673'. No formation fluid recovered in the formation test.                                                                                                                                                                                                                                                  |

All contacts are confirmed by electrolog.

Total Depth - 2815'.

This well was drilled by means of a rotary rig and an electrolog was taken from 290' - 2805'.

R. D. Sluzar

35235

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 33 of the P. & N. G. Regulations, dated January 28th, 1945, that it is the intention on or about the day of September 2, 1945 to abandon Well Judile No. 1

Shallow 437' feet, located on P. & N. G. Permit 3

10,130' North and 11,170' W. of P.M. 53

Registered in the name of Imperial Oil Limited

The reasons for abandonment are:-

No productive horizons encountered.

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

Oil:-

Gas:-

Water:-

Water rose to (How near the surface.)

The depth drilled to was 2815 feet and the following casings were inserted:-

| Diameter | Depth Feet | Weight    | Free, set or cemented | The intention is to withdraw | feet. |
|----------|------------|-----------|-----------------------|------------------------------|-------|
| 10 1/4"  | 290        | 40.5#/ft. | cemented - 75 sacks   | -                            | none  |

No other strings of casing run.

Remarks:

The abandonment operation will be carried out by spotting two cement plugs as follows:

- (1) 2585' to 2625' - 20 sacks
- (2) 265' to 305' - 20 sacks

The 10 1/4" casing will be capped and the well location identified with a metal marking plate, bearing the inscription "Judile No. 1", affixed to the casing cap.

cc: Dept. Mines & Res. (2)  
Mr. P. F. Shannon  
Toronto  
Edmonton  
Geo. I. Dept.  
Pet. Eng. 91.0

Approved:

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

At the Wells

Signature

*H. L. Taylor*  
H. L. TAYLOR  
Field Superintendent

Bureau of Lands, Parks and Title  
Forests Branch  
Department of Mines and Resources

Address

Norman Wells, N.W.T.

Date:

POOR COPY

New file

July 5 45

3

19 July 5

Imperial Oil Limited

on the right bank of the Mackenzie River approximately 26 miles downstream from Norman Wells

10,130 feet north of and 11,170 feet west of P.M. 53

Judite No. 1

Esso Rotary

XXX

10 1/2" 40.5#/ft. 8 Rd. Spang New 250' Cemented

7" casing (to be cemented at the top of the producing horizon if commercial production is encountered.)

|                |       |
|----------------|-------|
| Water          | none  |
| Oil & Gas      | 1900' |
|                | 2700' |
| Probable Depth | 3200' |

W. L. T. Lov  
Field Superintendent

Imperial Oil Limited

J. S. Stewart  
Acting Supervisory Engineer  
Dept. of Mines and Resources

P. F. Shannon  
XXXXXXXXXXXX  
P. F. SHANNON

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Information is required primarily not to get out to business of our "Y" coming to be concerned at the top of the production of information (information is concerned)

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Doors of Lines and Resources  
Adopting Supervisory Engineer

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.  
Company or Contractor Imperial Oil Limited  
Well designation Judith No. 1

| Day ending<br>8:00 a.m. | Footage drilled |          |          | Total | Depth<br>at<br>end of<br>day | Drilling Mud                    |                              | Slope tests |             | Remarks              |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|------------------------------|-------------|-------------|----------------------|
|                         | 1st tour        | 2nd tour | 3rd tour |       |                              | Average<br>viscosity<br>Seconds | Average<br>Weight<br>#/ gal. | Depth       | Inclination |                      |
| July 22                 | 35              | 55       | 51       | 141   | 141                          | 64                              |                              | 135         | 0°          | Spudded at 1:00 p.m. |
| " 23                    | 64              | 45       | 31       | 140   | 281                          | 57                              | 11.6                         | 198         | 1°          | Drilling shale       |
| " 24                    | 9               |          |          | 9     | 290                          | 54                              | 11.9                         | 289         | 1°          | Ran 10 3/4" casing   |
| " 25                    |                 |          |          |       | 290                          |                                 |                              |             |             | Standing cemented    |
| " 26                    |                 |          |          |       | 290                          |                                 |                              |             |             | Standing cemented    |
| " 27                    |                 |          | 50       | 50    | 340                          | 50                              | 9.4                          |             |             | Drilled plug at 280' |
| " 28                    | 49              | 47       | 70       | 166   | 506                          | 45                              | 10.6                         |             |             | Drilling sandy shale |
|                         |                 |          |          |       |                              |                                 |                              |             |             |                      |

General Remarks: July 24: Ran and cemented 280' of 10 3/4" surface casing at 290' with 75 sacks of cement.

Drilling Superintendent H. J. Wilson  
Date July 22 to 28, 1945

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.

Company or Contractor Imperial Oil Limited

Well designation Judile No. 1.

| Day ending<br>8:00 a.m. | Footage drilled |          |          | Total | Depth<br>at<br>end of<br>day | Drilling Mud                    |                             | Slope tests |                       | Remarks            |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|-----------------------------|-------------|-----------------------|--------------------|
|                         | 1st tour        | 2nd tour | 3rd tour |       |                              | Average<br>viscosity<br>Seconds | Average<br>Weight<br>#/gal. | Depth       | Inclination           |                    |
| July 29                 | 71              | 26       | 74       | 171   | 677                          | 41                              | 10.0                        | 500         | $\frac{1}{4}^{\circ}$ | Drilling shale.    |
| " 30                    | 37              | 60       | 60       | 157   | 834                          | 41                              | 10.0                        | 680         | $\frac{1}{4}^{\circ}$ | Drilling shale     |
| " 31                    | 60              | 54       | 58       | 172   | 1006                         | 37                              | 9.8                         | 900         | $\frac{1}{4}^{\circ}$ | Drilling shale     |
| August 1                | 52              | 39       | 40       | 131   | 1137                         | 36                              | 10.4                        |             |                       | Drilling shale     |
| " 2                     | 35              | 39       | 42       | 116   | 1253                         | 35                              | 11.0                        |             |                       | Drilling shale     |
| " 3                     | 36              | 17       | 17       | 70    | 1323                         | 35                              | 11.3                        |             |                       | Limestone at 1305' |
| " 4                     | 18              |          | 13       | 31    | 1354                         | 36                              | 11.5                        |             |                       | Drilling limestone |
|                         |                 |          |          |       |                              |                                 |                             |             |                       |                    |

General Remarks: Hole cored from 1321' to 1332' and tested with a  
Formation tester with a resultant recovery of 30'  
of drilling fluid in the drill pipe.

Drilling Superintendent H. S. Wilson  
Date July 29 to August 4, 1945

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.  
Company or Contractor Imperial Oil Limited  
Well designation Judila No. 1

| Day ending<br>8:00 a.m. | Footage drilled |          |          | Total | Depth<br>at<br>end of<br>day | Drilling Mud                    |                              | Slope tests |             | Remarks            |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|------------------------------|-------------|-------------|--------------------|
|                         | 1st tour        | 2nd tour | 3rd tour |       |                              | Average<br>viscosity<br>seconds | Average<br>Weight<br>#/ gal. | Depth       | Inclination |                    |
| August 5                | 8               |          | 37       | 45    | 1399                         | 36                              | 11.4                         |             |             | Drilling Limestone |
| " 6                     | 28              | 13       | 26       | 67    | 1466                         | 37                              | 11.5                         |             |             | Drilling Limestone |
| " 7                     | 19              | 27       | 23       | 69    | 1535                         | 37                              | 11.6                         | 1470        | 0°          | Drilling Limestone |
| " 8                     | 25              | 24       | 11       | 60    | 1595                         | 38                              | 11.7                         |             |             | Drilling Limestone |
| " 9                     | 10              | 18       | 20       | 48    | 1643                         | 41                              | 12.0                         |             |             | Drilling Limestone |
| " 10                    |                 |          | 23       | 23    | 1666                         | 38                              | 11.7                         |             |             | Motor Trouble      |
| " 11                    | 22              | 21       | 29       | 72    | 1738                         | 39                              | 11.8                         |             |             | Drilling Limestone |
|                         |                 |          |          |       |                              |                                 |                              |             |             |                    |

General Remarks: Hole cored from 1589' to 1605'

Drilling Superintendent H. J. Wilson  
Date August 5 to 11, 1945

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.

Company or Contractor Imperial Oil Limited

Well designation Judite No. 1

| Day ending<br>8:00 a.m. | Footage drilled |          |          | Total | Depth<br>at<br>end of<br>day | Drilling Mud                    |                             | Slope tests |             | Remarks            |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|-----------------------------|-------------|-------------|--------------------|
|                         | 1st tour        | 2nd tour | 3rd tour |       |                              | Average<br>viscosity<br>Seconds | Average<br>Weight<br>#/gal. | Depth       | Inclination |                    |
| August 12               | 24              | 21       | 29       | 74    | 1812                         | 41                              | 11.9                        |             |             | Drilling Limestone |
| " 13                    | 22              | 27       | 21       | 70    | 1882                         | 41                              | 11.9                        |             |             | Drilling Shale     |
| " 14                    | 23              | 22       | 28       | 73    | 1955                         | 40                              | 12.0                        |             |             | Drilling Shale     |
| " 15                    | 25              | 25       | 21       | 71    | 2026                         | 38                              | 12.1                        |             |             | Drilling Shale     |
| " 16                    | 24              | 29       | 31       | 84    | 2110                         | 37                              | 12.1                        |             |             | Drilling Shale     |
| " 17                    | 31              | 27       | 29       | 87    | 2197                         | 37                              | 12.0                        |             |             | Drilling Shale     |
| " 18                    | 29              | 32       | 26       | 87    | 2284                         | 36                              | 11.9                        |             |             | Drilling Shale     |
|                         |                 |          |          |       |                              |                                 |                             |             |             |                    |

General Remarks:

Drilling Superintendent H. A. Wilson  
Date.... August 12-18, 1945.....

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.

Company or Contractor Imperial Oil Limited

Well designation Judite No. 1

| Day ending<br>8,00 a.m. | Footage drilled |          |          |       | Depth<br>at<br>end of<br>day | Drilling Mud                    |                             | Slope tests |             | Remarks                 |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|-----------------------------|-------------|-------------|-------------------------|
|                         | 1st tour        | 2nd tour | 3rd tour | Total |                              | Average<br>viscosity<br>Seconds | Average<br>Weight<br>#/gal. | Depth       | Inclination |                         |
| August 19               | 23              | 11       | 12       | 46    | 2330                         | 40                              | 12.0                        |             |             | Limestone at 2306'      |
| " 20                    | 13              | 5        | 2        | 20    | 2350                         | 38                              | 12.0                        |             |             | Drilling Limestone      |
| " 21                    | 19              | 12       | 25       | 56    | 2406                         | 37                              | 11.9                        |             |             | Drilling Limestone      |
| " 22                    | 12              | 20       | 20       | 52    | 2458                         | 39                              | 11.9                        |             |             | Drilling Limestone      |
| " 23                    | 16              | 22       | 24       | 62    | 2520                         | 39                              | 11.9                        |             |             | Drilling Limestone      |
| " 24                    | 20              | 26       | 26       | 72    | 2592                         | 40                              | 11.9                        |             |             | Drilling Lime and shale |
| " 25                    | 19              | 17       | 10       | 46    | 2638                         | 42                              | 11.9                        |             |             | Drilling Lime and Shale |
|                         |                 |          |          |       |                              |                                 |                             |             |             |                         |

General Remarks: Hole cored from 2307' to 2348'

Drilling Superintendent H. J. Wilson  
Date Aug. 19 to 25, 1945

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

WEEKLY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.  
Company or Contractor Imperial Oil Limited  
Well designation Judith No. 1.

| Day ending<br>8:00 a.m. | Footage drilled |          |          | Total | Depth<br>at<br>end of<br>day | Drilling Mud                    |                             | Slope tests |             | Remarks             |
|-------------------------|-----------------|----------|----------|-------|------------------------------|---------------------------------|-----------------------------|-------------|-------------|---------------------|
|                         | 1st tour        | 2nd tour | 3rd tour |       |                              | Average<br>viscosity<br>Seconds | Average<br>Weight<br>#/gal. | Depth       | Inclination |                     |
| August 26               |                 |          |          |       | 2638                         | 42                              | 11.8                        |             |             | Ran Electrolog      |
| " 27                    | 15              | 7        | 6        | 29    | 2667                         | 42                              | 11.8                        |             |             | Formation Test.     |
| " 28                    | 6               |          |          | 6     | 2673                         | 42                              | 11.8                        |             |             | Formation Test.     |
| " 29                    |                 | 7        | 22       | 29    | 2702                         | 44                              | 11.5                        |             |             | Drilling Limestone. |
| " 30                    | 18              | 20       | 20       | 58    | 2760                         | 40                              | 10.5                        |             |             | Drilling Limestone. |
| " 31                    | 14              | 15       | 16       | 45    | 2805                         | 43                              | 10.6                        |             |             | Drilling Limestone  |
| September 1             | 10              |          |          | 10    | 2815                         | 43                              | 10.6                        |             |             | Ran Electrolog      |
|                         |                 |          |          |       |                              |                                 |                             |             |             |                     |

General Remarks: Hole cored from 2628' to 2673' and from 2803' to 2815' and tested with a Formation Tester throughout section from 2628' to 2673' with resultant recovery of 60' to drilling fluid.

Drilling Superintendent H. J. Wilson  
Date. August 26 to Sept. 1, 1945.

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

DAILY SUMMARY OF DRILLING (Rotary Tools)  
As required by Section 61 of the Petroleum &  
Natural Gas Regulations.

Field Mackenzie River Basin, Norman Wells, N.W.T.  
Company or Contractor Imperial Oil Limited  
Well designation Judite No. 1.

| Day ending  | Footage drilled |          |          |       | Depth at end of day | Drilling Mud                 |                          | Slope Tests |             | Remarks        |
|-------------|-----------------|----------|----------|-------|---------------------|------------------------------|--------------------------|-------------|-------------|----------------|
|             | 1st tour        | 2nd tour | 3rd tour | Total |                     | Average viscosity<br>Seconds | Average Weight<br>#/gal. | Depth       | Inclination |                |
| 8:00 a.m.   |                 |          |          |       |                     |                              |                          |             |             |                |
| September 2 |                 |          |          |       | 2815                |                              |                          |             |             | Hole abandoned |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |
|             |                 |          |          |       |                     |                              |                          |             |             |                |

General Remarks: Well abandoned on September 2, 1945 by spotting two  
cement plugs (1) 2585' to 2625' - 20 sacks  
(2) 265' to 305' - 20 sacks.

Drilling Superintendent H. H. Wilson  
Date September 2, 1945