Drilling Authority No. 410

Date Issued 23 January 1970

WELL NAME Scurry CDM SUP EMG TEXN Corp. L. G-15

FIELD ..... Area: .....

LOCATION: Unit G Section 15 Grid 61-10-122-00

Latitude 61-04-27.952 Longitude 122-02-33.115

U.W.L.R. 61.07443 — 122.04252

U.W.I. XX 300G156110122000

Rig Release Date: .....

Status .....

Information Release Date .....

CHANGE OF NAME:

| DATE RECEIVED | INDEX |
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IAND 52-90 (3-69)

Drilling Authority No. 410
Date Issued 23rd January 1970

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

# WELL COMPLETION DATA

*To be submitted in duplicate within thirty days after the completion, rework, abandonment, suspension or suspension of every well.*

MAR 31 1970
CALGARY N. ALBERTA
CONSERVATION BRANCH

Well name and number Scurry Cdn Sup KMG Tenn Corm L G-15

Permit No. 3857 Lease No.

Tennaco Oil & Minerals Limited (Permittee, Licensee, Lessee) Exploratory Licence No. 1223

Scurry-Rainbow Oil Limited (Operator) Exploratory Licence No. 1242

Location: Unit G Section 15 Grid 61° 10'; 122° 00'

Latitude 61° 04' 27.952" Longitude 122° 02' 33.115"

From Established Reference Marker Trig Sta. Hunt Elev. 1764'

Universal Well Location Reference Lat. 61.07443° N; Long. 122.043° W

| | DATE | DEPTH |
|---|---|---|
| Spudded | Feb. 16/70 | |
| Suspended | | |
| Resumed Operations | | |
| Finished Drilling | March 16/70 | 4875' |
| Deepened | | |
| Complete (gas/oil) | | |
| Abandoned | March 19/70 | |
| Rig released | March 20/70 | |

Pool(s)

Interval(s) open to production

Elevation: Gr. 1285.7 K.B. 1299

Rig No. 17

Drilling Contractor Jennings International Drilling Ltd.

Contractor's Business Licence No. 665

## CASING RECORD

| Casing Size (inches) | Grade | Weight | Amount | Set at — | Sacks of Cement and Additives |
|---|---|---|---|---|---|
| 1. 10-3/4 | J-55 | 40.5# | 26 Jts. | 794 | 625 saxs cement + 2% $CaCl_2$. |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |

| GEOLOGICAL TOPS | ELEVATION | |
|---|---|---|
| | Depths | Sub-Sea |
| Trout River- | | |
| Red Knife | 788 | + 511 |
| Jean Marie | 1584 | - 285 |
| Ft. Simpson | 1672 | - 373 |
| Slave Point | 3888 | -2579 |
| Lower Elk Point | 4302 | -3003 |
| Pre Elk Point | 4410 | -3111 |

## CORE RECORD

| From | To | Rec. | From | To | Rec. |
|---|---|---|---|---|---|
| 3914 | 3924' | 9.5 | | | |
| 3924 | 3984' | 59' | | | |

## LOG RECORD

| Run No. | Type of Log | From | To |
|---|---|---|---|
| 1 | Dresser Atlas BHC Acoustilog | 4864 | 791 |
| 1 | Dresser Atlas Induction Electrolog | 4870 | 791 |
| 1 | Dresser Atlas Sidewall Neutron GammaRay | 4871 | 792 |

IAND 52-90 (2) (2-69)

## CEMENTING RECORD (Plug, Squeeze, etc.)

| Date | From | To | Remarks |
|---|---|---|---|
| March 19/70 | 4350 | 4150 | 115 saxs cement + 3% CaCl2. Plug Down at 4 A.M., March 19th. Felt at 4131 at 12 noon. |
| March 19/70 | 850 | 750 | 75 saxs cement + 2% CaCl2. [illegible] at 9:15 P.M. March 19/70 |
| March 20/70 | Cut off casing 3' below ground level, welded on plate and erected identification marker. | | |

## PERFORATING RECORD (Bullet, Jet)

| Date | From | To | Remarks |
|---|---|---|---|

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

| Date | From | To | Remarks |
|---|---|---|---|

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | March 17 | Slave Point | 4230 | 4250 | 120 | 60 | 60 | 2313 | 85 | 51 | 51 | 2226 | 2274 | 12' mud. |
| 2 | March 18 | Pre Elk Point | 4400 | 4550 | 120 | 60 | 60 | 1749 | 1826 | 220 | 660 | 2112 | 2222 | 60' mud<br>1210' salt water. |

Field figures are reported for Drill Stem Tests.

## ANALYSIS

| Lab. No. | Sample | From | To | Source | Remarks |
|---|---|---|---|---|---|
| CAL-2-1925 | Water | 4400' | 4550' | DST #2 | 500' above tool. |

## PRESENT STATUS OF WELL

| | | |
|---|---|---|
| Oil | | (Interval.) |
| Gas | | (Interval.) |
| Dry | X | |
| Susp. | | |

Company SCURRY-RAINBOW OIL LIMITED

Signed by B. R. Leads

Title Reservoir Engineer

Date March 30, 1970

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

File No

Drilling Authority No. 420

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

# Application to Abandon a Well ~~or Suspend Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well Scurry Cdn Sup Dlg Team Corn L G-15

Location: Unit G Section 15 Grid 62° 10'; 122° 00'

Latitude 62° 04' 27.952" Longitude 122° 02' 33.110"

From Established Reference Marker Trig Sta. Hunt Elev. 1764'

Universal Well Location Reference Lat. 62.074431 N. Long. 122.042528 W.

Permit No. 3857 Lease No.

Tenneco Oil & Minerals Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed program March 19, 1970

## OIL, GAS AND WATER ENCOUNTERED
(Depths)

Oil at Nil

Gas at Nil

Water at Nil

Total Depth 4875 Date of last operations March 20th, 1970

Present condition of well Abandoned

## CASING RECORD

| Casing Size O.D. Inches | Weight | Amount | Set At— | Sacks of Cement and Additives | Amount Pulled |
|---|---|---|---|---|---|
| 1. 10-3/4" | 40.5# | 21 Jts | 794 | 625 saxs cement + | None |
| 2. | | | | 2% $CaCl_2$ | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

## PROPOSED ABANDONMENT PROGRAM

| Plug No. | Plug Position | Geological Formation | Number of Sacks of Cement | Remarks |
|---|---|---|---|---|
| 1 | 4350 - 4150 | Slave Point/Elk Point | 115 | 3% $CaCl_2$ |
| 2 | 850 - 750 | Trout River | 75 | 2% $CaCl_2$ |
| 3 | Surface Plug, plate and riser with name plate | | | |

The following logs have been run Dresser Atlas Sidewall Neutron Gamma Ray, BHC Acoustilog & Induction Electrolog

Other operations proposed

Operations to be carried out by Jennings Drilling Ltd. Contractor Licence No. 665

Address 404 - 736 - 8th Avenue S.W., Calgary Address Hay River, N.W.T.

Responsible Agent in field E. Griggs

Dated at Calgary this 30th Day of March 1970

Signed by B. R. Leeds Company Scurry-Rainbow Oil Limited

Title Reservoir Engineer Operator's Exploratory Licence No. 1242

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

*(For OIL AND MINERAL DIVISION use only)*

## APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by Mr. B.H.J. Thoms on the 17th March 1970.

Dated 2nd April, 19 70

B.H.J. Thoms
Oil Conservation Engineer

*Forms to be submitted in triplicate to Oil Conservation Engineer, Department of Indian Affairs and Northern Development, Calgary, Alberta.*

Drilling Authority No. 410

Project No.

File No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

# Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well: Scurry CDN SUP KMG TENN Corm L G-15

Location: Unit: G Section: 15 Grid: 61° 10'; 122° 00'

Latitude: 61° 04' 27.952" Longitude: 122° 02' 33.115"

Unique Well Identifier: 300G156110122000

Universal Well Location Reference: Lat. 61.07443°N., Long. 122.04252°W.

Elevation: Ground 1285.74' K.B. feet above sea-level.

Well is expected to produce from Muskwa formation at a depth of about 3800' feet. Expected total final depth 4800

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 3857 Lease No. Acreage 61,920

Permittee, licensee, or lessee Tenneco Oil & Minerals Ltd.

Exploratory Licence No. 1223

Surface owned by Crown or (or otherwise submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by Dept. of Northern Affairs & Natural Resources

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

| Casing Size O.D. (Inches) | Weight (Lb./Ft.) | Grade | New or Used | Estimated Depth | Sacks of Cement |
|---|---|---|---|---|---|
| 1. 10-3/4 | 40.5 | J-55 | New | 600 | 300 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

Expected water, gas, and oil horizons and type of control equipment

Weighted drilling mud and Schaeffer Hydrill blowout preventers.

Well will be drilled with Rotary Rig No. 17 by Jennings International Drilling Ltd. (Drilling Contractor or company)

Responsible agent of applicant:—

At well: E. Griggs Address: Ft. Simpson, N.W.T.

Contractor's business Licence No. 665

At registered office: B. R. Burns Address: 539 - 8th Avenue S. W., Calgary

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary this 22nd day of January 1970

Signed by D. H. Logan Company Scurry-Rainbow Oil Limited

Title Production Manager Operator's Licence No. 1242

*(For Oil and Mineral Division use only)*

**APPROVED**

This application has been examined and approved subject to the following conditions:—

1. The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
2. During well drilling and testing operations, every effort shall be made to ensure

Dated 23rd January 1970

Please see over page
Oil Conservation Engineer

*Forms to be submitted to Oil Conservation Engineer, Department of Indian Affairs and Northern Development, Calgary, Alberta.*

IAND 52-90-1 (3-69)

that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

4. Intermediate and production strings of casing are to receive the approval of the Oil Conservation Engineer.

B.H.J. Thomas, Oil Conservation Engineer

Scurry Cdn Sup KMG Tenn Corm L G-15

# WELL HISTORY REPORT

15-11-4-13

# WELL HISTORY REPORT

Scurry Cdn Sup KMG Tenn Corm L G-15

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
JUN 18 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

March, 1970

Scurry Cdn Sup KMG Tenn Form 1 G-15

INDEX


| | | |
|---|---|---|
| SECTION I | – | SUMMARY OF WELL DATA |
| SECTION II | – | GEOLOGICAL SUMMARY |
| SECTION III | – | ENGINEERING SUMMARY |

## SECTION I - SUMMARY OF WELL DATA

(a) Well Name: Scurry Cdn Sup KMG Tenn Corm L G-15

(b) Permittee: Tenneco Oil & Minerals Ltd.

(c) Operator: Scurry-Rainbow Oil Limited 639 - 8th Avenue S.W., Calgary 2, Alberta.

(d) Location: Unit G, Section 15, Grid 61° 10'; 122° 00'

Universal Well Location Reference: Lat. 61.07443° N., Long. 122.04252° W.

(e) Co-ordinates: Lat. 61° 04' 27.952" Long. 122° 02' 33.115"

Unique Well Identifier: 300G156110122000

(f) Permit No: 3857

(g) Drilling Contractor: Jennings International Drilling Ltd.

(h) Drilling Licence No: 410 issued 23rd January 1970

(i) Classification: Wildcat

(j) Elevations: G.L. 1235.7
K.B. 1299.3

(k) Date Spudded: February 16th, 1970

(l) Completed Drilling: March 16, 1970

(m) Total Depth: 4875

(n) Well Status: Dry and Abandoned

(o) Rig Release: March 20th, 1970

(p) Hole Size: 0 - 796 x 15"
796 - 4875 x 8-3/4"

(q) Surface Casing: Ran 26 jts., 10-3/4" J-55 40.5# casing. Cemented with 625 saxs cement plus 2% $CaCl_2$. Plug Down at 7:15 A.M. February 21st, 1970.

# GEOLOGICAL MARKERS

Scurry CDN SUP KMC TERR Corm L G-15
61°04'27.98"N. 122°02'33.12"W.

## SAMPLE MARKERS

| FORMATION | DEPTH | ELEVATION |
|---|---|---|
| Trout River - Redknife | No Sample Pick | |
| Jean Marie | 1600 | - 301 |
| Fort Simpson | 1700 | - 401 |
| Muskwa | 3690 | -2391 |
| Slave Point | 3900 | -2601 |
| Lower Elk Point | 4295 | -3010 |
| Pre Elk Point | 4414 | -3115 |

## LOG MARKERS

| | | |
|---|---|---|
| Trout River - Redknife | 788 | + 511 |
| Jean Marie | 1584 | - 285 |
| Fort Simpson | 1672 | - 373 |
| Muskwa | 3696 | -2397 |
| Slave Point | 3888 | -2579 |
| Lower Elk Point | 4302 | -3003 |
| Pre Elk Point | 4410 | -3111 |

CORES Core #1 3916 - 3925 Recovered 9'

Core #2 3924 - 3984 Recovered 59'

## SECTION II - GEOLOGICAL SUMMARY

| | | |
|---|---|---|
| 40 - 100 | Surface Gravel<br>Quartz<br>Granite Wash | Sub-rounded, very coarse fragments and grains, some sub-angular quartz grains and fragments at 90' to 100'. |
| 100 - 200 | Sand | Loose quartz, fine to medium to coarse grains, sub-rounded to rounded, some very coarse fragments, vari-coloured, scattered granite wash type fragments at 190' to 200'. |
| 200 - 310 | Gravel | Very coarse fragments, sub-angular to rounded, vari-coloured, some light tan siltstone, very coarse fragments at 210'; some loose quartz (30-50%), fine to coarse grains at 210'; some angular granite wash type fragments at 240'. gravel, coarse to very coarse grained fragments, sub-rounded and scattered wash type angular fragments at 260'. |
| 310 - 350 | Sand | Loose quartz grains, fine to medium to coarse grains, sub-rounded, some wash type, very coarse fragments; gravel, very coarse, vari-coloured fragments at 350'. |
| 350 - 400 | Limestone | 70%, tan to light grey, crypto to micro crystalline at 360'. |
| | Quartz Grains & Granite Wash | 30%, coarse to very coarse grained fragments, angular at 360' and 370'. |
| | Limestone | 90% at 380'. |
| 400 - 470 | Limestone | Light tan, trace of very light grey, micro crystalline, some limestone, off-white to light tan, micro crystalline at 440' and 450'; scattered shell fragments at 460' and 470'. |
| 470 - 550 | Limestone | Tan to very light brown, crypto to micro crystalline. |
| | Siltstone | Scattered chips, light grey to very light green/grey, calcareous at 510' and 520'. |
| | Siltstone | 10%, very light green/grey at 530'; poor sample |
| | Quartz Grains & Granite Wash | 30%, fragments. |
| | Siltstone | 20% at 540' and 550'. |
| 550 - 560 | Siltstone | 50%, light grey, calcareous. |
| | Limestone | 20%, light tan, micro crystalline, cavings, 30%; quartz grains and granite wash fragments at 560'. |

| | | |
|---|---|---|
| 560 - 690 | Siltstone | 70%, light grey to very light green/grey, calcareous. |
| | Limestone | 10% at 570'. |
| | Cavings | 20% at 570'. |
| | Siltstone | 90% at 580'. |
| | Cavings | 10% |
| | Siltstone | 100% at 590'. |
| | Shale | Trace, medium grey at 640'. |
| | Silty-Shale | Some, medium grey at 680' and 690'. |
| 690 - 730 | Siltstone | Medium grey, calcareous, some light grey siltstone; some shale, silty, medium grey at 720' and 730'. |
| 730 - 795 | Shale | Medium grey, slightly silty in part. |
| | Siltstone | Medium grey at 740'. |
| | Shale | Trace, slightly silty at 770' and 790'. |
| | | Ran surface casing at 795'. |
| 795 - 810 | Shale | Light grey, scattered siltstone and calcareous chips. |
| | Limestone | 10%, light grey, micro crystalline at 810'. |
| 810 - 850 | Limestone | 40%, light grey, micro to very fine crystalline, silty in part. |
| | Siltstone | 30%, light grey, calcareous. |
| | Shale | 30% |
| | Limestone | 30% at 850'. |
| 850 - 1000 | Shale | 60%, light grey. |
| | Limestone | 20% |
| | Siltstone | 20%, light grey, calcareous. |
| | Limestone | 10% |
| | Siltstone | 10% at 870' and 880'. |
| | Siltstone | 10% to limestone at 890'; trace limestone and siltstone at 910' and 920'. |
| | Siltstone | 20% at 930' and 940'. |
| | Siltstone | Trace at 950' |

| | | |
|---|---|---|
| 1000 - 1600 | Shale | Light to medium grey, slightly greenish/grey in part, scattered stringers of siltstone at 1010' and 1040'; trace siltstone at 1600'. |
| 1600 - 1630 | Limestone | 40%, medium brown, crypto to micro crystalline, trace off-white, chalky. |
| | Shale | 60% at 1610'. |
| | Limestone | 60%, light to medium brown at 1630'. |
| 1630 - 1670 | Limestone | 90%, light grey/brown to medium brown, crypto crystalline to micro crystalline. |
| | Shale | 10% at 1640'; scattered shell fragments at 1650' and 1660'. |
| 1670 - 1720 | Limestone | Light grey/brown, crypto crystalline, some slightly chalky at 1680'. |
| | Limestone | Some, medium brown, micro crystalline at 1710'. |
| | Limestone | 40% at 1720'. |
| | Shale | 60% at 1720'. |
| 1720 - 1770 | Shale | 80%, medium grey. |
| | Limestone | 20% at 1730'. |
| | Limestone | 40% at 1720' and 1750'. |
| 1770 - 1780 | Limestone | 70%, light grey/brown, medium brown, crypto to micro crystalline. |
| | Shale | 30% at 1780'; poor sample? |
| 1780 - 1810 | Shale | 80% |
| | Limestone | 20% |
| | Limestone | 30% at 1800' and 1810'. |
| 1810 - 1820 | Limestone | 60%, tan to medium brown, micro crystalline and some chalky. |
| | Shale | 40%, medium grey. |
| 1810 - 3320 | Shale | 85%, medium grey. |
| | Limestone | 15%, medium brown. |
| | Shale | 100% at 1810' to 1830' and scattered trace limestone and siltstone at 1840', 1860' and 1870'. |

| | | |
|---|---|---|
| | Sandstone | 10%, light to medium grey, very fine to fine grained, calcareous at 1930', 1940' 1950'. |
| | Sandstone | 20% at 1960'. |
| | Sandstone | 10% at 1970'. |
| | Siltstone | 20% at 1970'. |
| | Sandstone | 10% |
| | Siltstone | 10% at 1990', 2010', 2020' to 2040'. |
| | Siltstone | 10% at 2090' and 2100'. |
| | Sandstone | Trace, light grey, fine to medium grained at 2170' and 2180'. |
| | Shale | Some, dark grey at 3320'. |
| 3320 - 3690 | Shale | Medium to dark grey, scattered stringers of siltstone, medium to light grey at 3330', 3430', 3440', 3530' and 3540'. |
| | Shale | Scattered trace, medium grey to grey/black at 3660', 3670' and 3680'. |
| | Shale | 5%, brown/black to grey/black, bituminous, brown streaks at 3690'. |
| 3690 - 3720 | Shale | 40%, dark grey to brown/black, bituminous. |
| | Shale | 60%, medium to dark grey. |
| | Shale | 70%, brown/black. |
| | Shale | 30%, medium to dark grey at 3710'. |
| | Shale | 80%, brown/black at 3720'. |
| 3720 - 3800 | Shale | 40%, black, bituminous. |
| | Shale | 40%, dark grey to brown/black. |
| | Shale | 20%, medium to dark grey at 3730' and 3740'. |
| | Siltstone | Scattered, light grey at 3750'. |
| | Shale | Light to medium grey, 30% cavings at 3760'. |
| | Shale | 60%, brown/black, black. |
| | Shale | 20%, medium grey cavings at 3770'; abundant shale, light to medium grey, cavings at 3800'. |

| | | |
|---|---|---|
| 3800 - 3870 | Shale | 70%, brown/black and some black (10%). |
| | Shale | 20%, light to medium grey at 3810', cavings. |
| | Shale | Medium grey, 30% cavings and trace pyrite at 3840' and 3850'. |
| | Shale | Scattered trace, black, white speckled. |
| | Shale | 40%, medium grey, cavings at 3860' and 3870'. |
| 3870 - 3900 | Shale | 50%, medium grey, cavings. |
| | Shale | 30%, brown/black. |
| | Shale | 20%, black at 3880' and 3890'. |
| 3900 - 3916 | Limestone | 60%, medium to dark grey/brown, crypto to micro crystalline, argillaceous, scattered calcite stringers. |
| | Shale | 40%, brown/black. |

Core #1 3914 - 3924' Recovered 9 feet.

| | | |
|---|---|---|
| 3916 | Limestone | Dark grey/brown, crypto to micro crystalline, argillaceous, scattered calcite crystals, medium to coarse, occasional bituminous shaly partings, few scattered fossil fragments and coarse crystals and slight trace of condensate bleeding at 3922 to 3924', no visible porosity, scattered thin shale partings at styolites. |

Core #2 3924 - 3984'

| | | |
|---|---|---|
| 3924 - 3929 | Limestone | Dark grey/brown, crypto to micro crystalline with scattered calcite crystals, argillaceous, fossil fragments at 3927', vertical fracture 2½', infilled with calcite at 3926' to 3928.5'. |
| 3929 - 3933 | Limestone | Black, crypto crystalline, very hard, argillaceous. |
| 3933 - 3983 | Limestone | Dark grey/brown, crypto crystalline, micro crystalline in parts, medium to hard, argillaceous, abundant fossils, coral and stromatoporois?? from 3935' to 3939' and 3940' to 3954' and 3955' to 3983', scattered very thin bituminous partings throughout, vertical fracture 3' long, infilled with calcite at 3973' to 3976', scattered slight trace oil staining on outside of core from rig floor at 3975' to 3983'. |

| | | |
|---|---|---|
| 3983 - 3990 | Shale | Cavings after trip. |
| 3990 - 4000 | Limestone | 70%, medium brown, some grey/brown, crypto crystalline to slightly micro crystalline in part; some limestone, light tan to buff, chalky. |
| | Shale | 30%, cavings at 4000'. |
| 4000 - 4020 | Limestone | 50%, light tan to light grey, micro crystalline to chalky. |
| | Limestone | Some, 40%, medium brown to grey/brown, crypto crystalline. |
| | Shale | 10%, cavings at 4010'; rare chip chert, black at 4020'. |
| 4020 - 4090 | Limestone | Medium brown to dark grey/brown, chalky and scattered chips chert, black at 4030'; rare chip chert, black at 4040'. |
| | Limestone | 20%, medium brown, chalky at 4050'. |
| | Shale | 20%, cavings at 4060'. |
| | Limestone | 30%, chalky, light tan at 4070'. |
| 4090 - 4130 | Limestone | 70%, tan to light brown, crypto crystalline, clean. |
| | Limestone | 10%, off-white to tan, chalky. |
| | Shale | 10% |
| | Limestone | 10%, medium brown, crypto crystalline at 4100'. |
| | Limestone | 60%, tan to light brown, chalky. |
| | Limestone | 20%, medium brown, slightly argillaceous in part at 4120'. |
| 4130 - 4200 | Limestone | 50%, medium brown to dark grey/brown, crypto crystalline, argillaceous. |
| | Limestone | Some, 30%, light brown, crypto, clean; trace limestone, off-white chalky. |
| | Shale | 20%, cavings at 4140'. |
| | Limestone | 70%, dark grey/brown. |
| | Limestone | 20%, light grey to medium brown, chalky. |
| | Shale | 10% at 4150'. |
| | Limestone | 80%, dark grey/brown, limestone, medium grey, chalky. |

| | | |
|---|---|---|
| | Shale | Trace at 4160'. |
| 4200 - 4230 | Limestone | 80%, medium to dark grey, crypto crystalline; some (10%) dark grey/brown argillaceous; trace limestone (10%) light grey, chalky. |
| 4230 - 4270 | Limestone | Medium grey to medium brown, crypto crystalline, very rare chip dolomite, white to light grey, fine to medium crystalline, friable, tight at 4240'. |
| | Dolomite | Trace, off-white, fine to medium crystalline, friable, tight at 4250'; scattered chips dolomite, off-white, fine to medium crystalline at 4260'. |
| 4270 - 4300 | Limestone | 80%, tan to light brown, crypto crystalline, clean, scattered limestone, off-white, chalky at 4280'. |
| 4300 - 4320 | Dolomite | 30%, light grey, micro to very fine crystalline, clean, tight, some dolomite crystals, crypto crystalline, loose, white, infilling and veining. |
| | Limestone | 70%, tan to light brown, crypto crystalline, clean. |
| | Dolomite | 60%, light grey to very light brown, micro crystalline. |
| | Limestone | 30%, tan to light brown. |
| | Limestone | 10%, off-white, chalky at 4320'. |
| 4320 - 4350 | Dolomite | 80%, light brown and trace light grey, micro to very fine crystalline, clean, medium - hard. |
| | Limestone & Shale | 20%, cavings at 4330'. |
| 4350 - 4400 | Dolomite | Light grey to light brown, crypto crystalline, slightly micro crystalline in part, trace anhydrite, light grey, crypto crystalline at 4340' and 4350'. |
| | Anhydrite | 10%, light grey at 4360' and 4370'. |
| | Dolomite | Some, light grey, crypto crystalline; anhydrite at 4370'. |
| | Anhydrite | 20% and dolomite becoming anhydritic at 4380' and 4390'. |
| 4400 - 4410 | Dolomite | Medium grey to medium brown, trace dark brown, crypto crystalline, scattered chips with quartz grains as inclusions at 4410'. |

| | | |
|---|---|---|
| 4410 - 4420 | Sandstone | 40%, white, medium to coarse grained, angular, clean, quartzitic, hard. |
| | Sandstone | 10%, clear, medium to coarse grained, quartzitic, very hard. |
| | Dolomite | 40%, medium to dark brown, crypto crystalline. |
| | Shale | 10%, cavings at 4420'. |
| 4420 - 4500 | Sandstone | 80%, white to clear, medium to coarse grained, quartzitic, medium to very hard. |
| | Shale | 20%, cavings at 4430'. |
| | Siltstone | Some (10%), light grey, very hard. |
| | Shale | 20%, cavings at 4450'. |
| | Siltstone | 20%, to very fine grained sandstone, very light grey, hard at 4460' and 4470'. |
| | Shale | 30% |
| | Siltstone | 20% at 4480'. |
| | Shale | 40%, cavings at 4490'. |
| | Shale | 80%, after trip at 4490' in 4500' sample. |
| 4500 - 4630 | Sandstone | 70%, white to clear, medium to coarse grained, clean, quartzitic, medium to very hard. |
| | Shale | 30%, cavings at 4510', mostly clear pure quartz at 4580' and 4590'. |
| 4630 - 4730 | Sandstone | White, fine to medium grained, some coarse grained, sub-rounded, fairly well cemented with white material, possibly Kaolin, non-calcareous at 4640'. |
| | Sandstone | 40%, white to clear, medium to coarse grained, quartzitic at 4650'; abundant shale cavings at 4670'. |
| | Shale | 70%, cavings at 4710'; scattered chips limestone and siltstone and sandstone, light grey, fine to medium grained, cavings?? at 4270'. |
| 4730 - 4820 | Sandstone | White to clear, medium to coarse grained to pure quartz fragments. |
| | Shale | 30%, cavings at 4740'; some sandstone, white, fine to medium grained, sub-rounded, frosted, fairly well cemented; also some siltstone (5%), very pale cream, hard at 4820'. |

| | | |
|---|---|---|
| 4820 - 4870 | Sandstone | White, fine to medium grained, non-calcareous, trace coarse grains, sub-rounded, frosted, fair cementing. |
| | Sandstone | Some, 10%, medium to coarse grained, quartzitic at 4830' and 20% at 4870'. |
| 4870 - 4875 | Sandstone | White to clear, sub-angular, medium to coarse grained, hard, quartzitic in part, some sandstone, white, fine to medium grained, sub-rounded at 4875'. |

## SECTION III ENGINEERING SUMMARY

### Drill Stem Tests

DST #1 4230 - 4250

ZONE TESTED: Slave Point

ISI 60 mins VO 120 mins FSI 60 mins

RECOVERY 12' mud

| PRESSURES | | | | |
|---|---|---|---|---|
| | ISIP | 2313 | FSIP | 85 |
| | IHP | 2226 | FHP | 2174 |
| | IFP | 51 | FHP | 51 |

Field figures are reported

DST #2 4400 - 4550

ZONE TESTED: Pra[illegible]k Point

ISI 60 mins VO 120 mins FSI 60 mins

RECOVERY 60' mud
1210' salt water

| PRESSURES | | | | |
|---|---|---|---|---|
| | ISIP | 1749 | FSIP | 1826 |
| | IHP | 2112 | FHP | 2222 |
| | IFP | 220 | FHP | 660 |

Field figures are reported

CASING RECORD: Ran 26 jts, 10-3/4" J-55 40.5# Casing
Cemented with 625 saxs cement plus 2% $CaCl_2$
Plug Down at 7:15 A.M., February 21, 1970.

WESTERN ROCK BIT COMPANY LIMITED — Form 5-77 — 10 M

# BIT RECORD

PAGE

| Province | Field | | LSD | Section | Township | Range | Operator | Elev. |
|---|---|---|---|---|---|---|---|---|
| N.W.T. | Cormorant Lake | Canada | | | | W | Rocky Mountain | |

Location: 61° 04' 12.453" N 123° 52' 34.115" W

Contractor: Services

Rig No: 9

Rig Make & Type: Ensco 56

Tool Pusher: K Halliday

| Drill Collars | No. | O.D. | I.D. |
|---|---|---|---|
| 1. | 11 | 6 1/4 | 2 1/2 |
| 2. | | | |

| Tool Joints | Make | Size | O.D. |
|---|---|---|---|
| 1. | | 4 1/2 XH | 6 1/4 |
| 2. | | | |

| Date | Month/Day/Year | Time |
|---|---|---|
| Spudded | FEB 16 | 1:00 AM/PM |
| Set Surface | FEB 17 | 2:15 AM/PM |
| Under Surf | FEB 22 | 9:00 AM/PM |
| Under Inter | / / | AM/PM |
| Completion | / / | AM/PM |
| Release | / / | AM/PM |

Pump No. 1: Emsco — Type: D-375

Pump No. 2: Emsco — Type: D-375

Approved (Rockpush)

Approved (Fieldman)

Lost Circulation Depths

Key Seat Depths

Other Remarks: Reaming Re Casing Job

Liner 6 1/4 at 795

Liner 12" at 795

| No. | Size | Make | Type | Jet Size | Serial | Depth Out | Feet | Hours | Accum. Hours | Dull Cond. T | B | G | No. of DC | Wt. 1000 Lbs | R.P.M. | Vert. Dev. | Pump Pres. | Bore |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 RR | 7 7/8 | H.W. | X3AJ | 3/20 | 15316 | 321 | 321 | 13 1/4 | 13 1/4 | 6 | 3 | E | 16 | 20 | 80 | 3 1/4 | 500 | |
| 2RR | 7 7/8 | H.W. | X3AJ | 3/20 | 19936 | 746 | 425 | 48 1/4 | 23 1/2 | 4 | 3 | I | 7 | 5/10 | 160 | 1° | 700 | |
| 3RR | 7 7/8 | REED | H.C | 11/16 | 1 117 | 940 | 194 | 17 1/2 | 21 | 1 | 2 | E | 9 | 5/10 | 160 | 1° | 350 | |
| 4RR | 7 7/8 | REED | H.C | 11/16 | 19662 | 796 | 326 | 30 | 91 | 3 | 1 | E | 15 | 25 | 160 | 1° | 1650 | |
| 1 | 7 7/8 | H.W. | X3AJ | 3/11 | 18256 | 2139 | 1343 | 109 1/2 | 109 1/2 | 3 | 2 | E | 12 | 12 | 160 | 3° | 2200 | |
| 2 | 7 7/8 | H.W. | X16Y | 3-13 1-11 | 20332 | 3227 | 1088 | 51 1/4 | 160 1/4 | 6 | 4 | E | 16 | 24 | 150 | 2° | 1150 | |
| 3 | 7 7/8 | H.W. | X1J | 3/12 | 21233 | 3974 | 747 | 54 1/4 | 112 | | | | 16 | 22 1/2 | 70 | 1° | 1650 | |
| 1C | 6 3/4 | 3 1/2 D | reamer | | 11.67 | 3973 | 9 | 2 1/2 | 2 1/2 | | | | 16 | 2 | 70 | | 2400 | |
| 4 | 7 7/8 | Dec | 4739 | 3-12 1-11 | 9 1620 | 3974 | 1 | 1/2 | 1 1/2 | Reamed | | | 16 | 2 | 70 | 1° | | |
| 2C | 6 3/4 | D | reamer | | 11.67 | 3974 | 1 | 1/2 | 1 1/2 | Reamed | | | 16 | 2 | 70 | 1° | | |
| 5 | 8 3/4 | Smith | F3C | 3/11 | 255743 | 3974 | Reamed | 1/2 | | | | | 16 | | 50 | 1/2° | 400 | |
| 6 | 7 7/8 | H.W. | X55R | 3/12 | 20229 | 4496 | 522 | 91 | 325 | 3 | 3 | E | 16 | 30 | 50 | 1° | 1800 | |
| 7 | 7 7/8 | H.W. | X55R | 3/12 | 18179 | 4837 | 341 | 48 | 373 | | | | | 30 | 50 | | | |
| 1RR | 7 7/8 | Reed | SHGJ | 3/11 | 255743 | 4837 | Reamed | 1/2 | | | | | | | | | | |
| 8 | 7 7/8 | Smith | SCFM | 3/12 | 25640 | 4864 | 27 | 2 3/4 | 376 1/4 | 5 | 5 | E | 16 | 30 | 50 | 1/2 | 1900 | |
| 9 | 7 7/8 | Dec. | M2J | 3/12 | 25044 | 4869 | 5 | 1/2 | 376 1/2 | 5 | 5 | E | 16 | 30 | 50 | 1/2 | 1900 | |
| 4RR | 7 7/8 | Dec | 4752 | 3/12 | 19628 | 4905 | 6 | 1 1/2 | 377 1/2 | 6 | 3 | I | 16 | 30 | 50 | 3/4 | 1900 | |
| 10 | 7 7/8 | H.W. | X3AJ | 3/12 | 18327 | 4929 | 24 | 4 1/2 | 382 | 1 | 1 | I | 16 | 30 | 50 | 1/2 | 1900 | |
| 11 | 7 7/8 | H.W. | X55R | 3/12 | 18726 | 4976 | 47 | 17 | 165 | 1 | 1 | O | 11 | 10 | 35 | 2 | 1400 | |

NEW T1 T2 T3 T4 T5 T6 T7 T8 DEGREE OF TOOTH DULLNESS

LOCATION | CONTRACTOR | RIG No. | TOOL PUSHER

| No. | Size | Make | Type | Jet Size | Serial | Depth Out | Feet | Hours | Accum Hours | Dull Grad T | Dull Grad B | Dull Grad G | No. of DC | WOB 1000 Lbs | R.P.M. | Pump Press. | Nozzles | Vel. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 8 3/4 | H.C. | [illegible] | 7/32 | 3K 293 | 4202 | 66 | 36½ | 84½ | 3 | 1 | 3 | 16 | 30 | 65 | 2 | [illegible] | |
| 13 | 8 3/4 | H.C. | K32J | 7/32 | ZL 992 | 4275 | 73 | 12 | 36½ | 2 | 1 | 2 | 16 | 30 | 52 | 2 | [illegible] | |

# MUD RECORD

| Date | Gel | Caustic | DV 60 #/s | Sawdust | Soda Ash | Bicarb | CMC | No Stik #/s. | D Foam #/s. |
|---|---|---|---|---|---|---|---|---|---|
| Feb. 16 | 5300 | 150 | 2 | 10 bags | | | | | |
| 17 | 5000 | | | 10 bags | | | | | |
| 18 | 4000 | | | | 100 | | | | |
| 19 | 700 | | | | | | | | |
| 20 | 800 | | | | | | | | |
| 22 | 5100 | 100 | 5 | | | 200 | | | |
| 23 | 6900 | 150 | 6 | | | | 250 | 12 | |
| 24 | 3300 | 100 | 3 | | | | 400 | 4 | |
| 25 | 2500 | 100 | 2 | | | | 200 | 4 | |
| 26 | 1500 | 50 | 1 | | | | 300 | 5 | |
| 27 | 2400 | 100 | 2 | | | | 250 | 2 | |
| 28 | 700 | 50 | 1 | | | | 150 | 1 | |
| Mar. 1 | 1400 | 50 | 1 | | | | 50 | 1 | |
| 2 | 1200 | | | | | | | ½ | |
| 3 | 1400 | 50 | 2 | | | | 150 | 1 | |
| 4 | 1200 | 50 | 1 | | | | 50 | 1 | |
| 5 | 1200 | 100 | 2 | | | | 50 | 3 | |
| 6 | | 50 | | | | | 100 | 3 | |
| 7 | | 50 | | | | | 50 | 3 | |

## Mud Record (Cont'd)

| Date | Gel | Caustic | DV 68 gls. | Sawdust | Soda Ash | Bicarb | CMC | No Stik Gls. | D Foam gls. |
|---|---|---|---|---|---|---|---|---|---|
| 8 | 1000 | 50 | 1 | | | | 50 | 2 | 10 |
| 9 | 1000 | 50 | 1 | | | | 150 | 3 | |
| 10 | | | | | 200 | | | 2 | |
| 13 | 1000 | | | | | | | | |
| | 46900 | 1250 | 30 | 20 | 300 | 200 | 2100 | 48 gls | 10 gls. |

February [illegible] 1970

February [illegible]

February 18

February 19

February 20

February 22

February 23

February 24

February 25

February 26

February 27

February 28

March 2

March 4

March 6

Surveys: 340' - 1 Deg.

Surveys: 409' - 1-1/2 Deg.

Surveys: 624' - 1 Deg.
710' - 1 Deg.
790' - 1 Deg.

Surveys: 400' - 1/2 Deg.

Surveys: 558' - 1-1/2 Deg.
650' - 1-1/2 Deg.

Surveys: 881' - 1 Deg.
976' - 1 Deg.
100[illegible] - 1 Deg.
1225' - 1 Deg.

Surveys: 1331' - 1-1/4 Deg.
1426' - 1 Deg.
1520' - 1 Deg.
1920' - 2 Deg.

Surveys: 2056' - 2 Deg.
2150' - 2 Deg.
2244' - 2 Deg.
2360' - 1-3/4 Deg.
2460' - 2 Deg.
2680' - 1-3/4 Deg.

Surveys: 2815' - 1-3/4 Deg.
2920' - 2 Deg.

Surveys: 3026' - 2-1/2 Deg.
3140' - 2-3/4 Deg.
3185' - 2-3/4 Deg.

Surveys: 3351' - 1-1/2 Deg.
3470' - 1-1/2 Deg.
369[illegible] - 1 Deg.

Surveys: 3790' - 1-1/4 Deg.
3890' - 1-1/2 Deg.

Surveys: 3920' - 2 Deg.

Surveys: 3984' - 1-1/2 Deg.

[illegible]veys: 4168' - 1-1/4 Deg.

Surveyor Tasks (Cont'd)

March 7

March 8

March 11

March 12

March 15

March 16

Surveyor: [illegible] – 1/2 Sec.

Surveyor: [illegible] – 1/2 Sec.

Surveyor: [illegible] – 2-1/2 Sec.

Surveyor: [illegible] – 2-1/2 Sec.
[illegible] – 2 Sec.

Surveyor: [illegible] – 2-1/2 Sec.

Surveyor: [illegible] – 2 Sec.

ABANDONMENT PLUGS:

Plug # 1: 4350 - 4150 with 115 saxs cement + 3% $CaCl_2$. Plug Down at 4 A.M. March 19th, 1970. Felt Plug at 4131 at 12 noon, 1970.

Plug #2: 850 - 750 with 75 saxs cement + 2% $CaCl_2$. Plug Down at 1:15 P.M. Felt at 732 at 9:15 P.M., March 19, 1970.

SECTION IV - LOGS

| TYPE OF LOGS RUN | DATE RUN | INTERVALS |
|---|---|---|
| Dresser Atlas BHC Acoustilog | March 16, 1970 | 4864 - 791 |
| Dresser Atlas Induction Electrolog | March 16, 1970 | 4870 - 791 |
| Dresser Atlas Sidewall Neutron Gamma Ray | March 17, 1970 | 4871 - 792 |

SECTION V - Analysis

Water Analysis

Interval 4400'

Sampled from DST #2 (500' Above Tool) by Johnston Testers

Date Sampled March 18th, 1970

Date Analysed March 30, 1970

Recovery 1270' Fluid

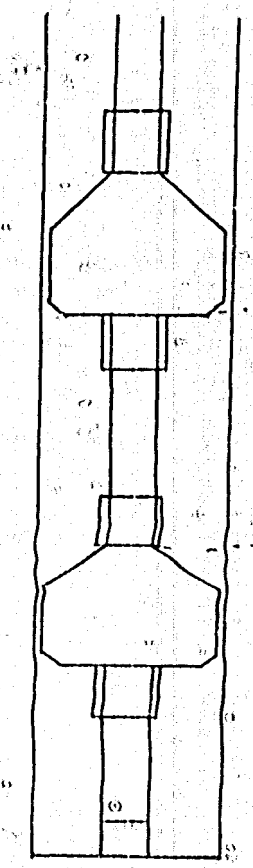
Analysed by Core Laboratories-Canada Ltd.

SCURRY-RAINBOW OIL LIMITED

FORMATION TEST REPORT

Well Name Dome Kermack Fee #2 (Fee) Test No. 1 Date 7 Nov 70

Drilling Contractor Jones Bros Rig 4 Testing Company [illegible] Tester Lon Russell




Sub-Surface Equipment

Size of Drill Pipe: 4½ O.D.

Thread FH : 16.6 #/ft.

Upper Packer: Single Rubber [illegible]

Dual Rubber [illegible]

Size 7¾ Type Comp

Depth of Bottom Rubber 4236 feet

Interval Tested 4231 - 4250

Lower Packer: Single Rubber [illegible]

Dual Rubber 1

Size 7¾ Type Comp

Depth of Top Rubber 4225 feet

Depth of Well 4175 feet

Formation Tested Penn Clastics Interval 19 feet

Mud Properties: Weight [illegible] #/gal. Funnel Vis. 42 Water Loss [illegible]

Time Waiting on Tester [illegible] Time Tool Started in Hole [illegible]

Time Tool on Botton [illegible] Calculated Weight of String [illegible]

Weight Set on Packer by Indicator [illegible]

Preflow Period: Interval 11:27 - 11:45 AM Total Time 3 min

Initial Shut-in Period: Interval 11:45 - 12:26 PM Total Time 41

Flow Period: Interval 12:26 - 1:26 PM Total Time 13

Final Shut-in Period: Interval 1:26 - 2:26 PM Total Time 60

Tool Pulled Free at 3:05 PM Weight Increase [illegible]

Tool Out of Hole at 6:30 PM Rubber Condition Good

Blow Description: Initial Weak Puff Air Blow [illegible] Gas Blow [illegible]

Gas Flow [illegible] MCFD Measured [illegible] Est. [illegible] Measuring Device [illegible]

Liquid Recovery Total Stands [illegible] Feet [illegible]

Description: 12 ft mud

Pressures I.S.I.P. 2313 psi I.F.P. 57 psi I.H.P. 2216 psi B.H.T. [illegible]°

F.S.I.P. 25 psi F.F.P. 57 psi F.H.P. 2179 psi

Test Satisfactory Yes Misrun [illegible] Remarks [illegible]

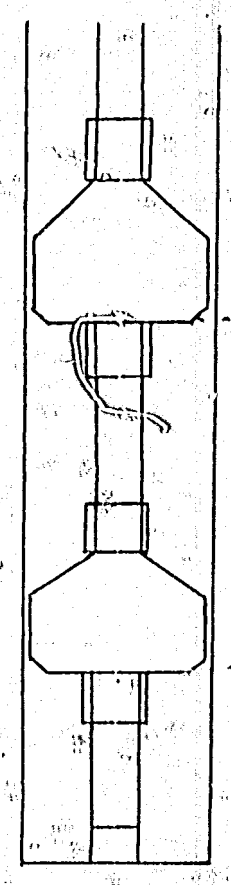
Present at Test Howard Hubbard, Bryce Dekenty, Jones Supervisor Ed Briggs

SCURRY-RAINBOW OIL LIMITED

FORMATION TEST REPORT

Well Name Sunray Rainbow Unit #2 (2-15) Test No. 2 Date March 6

Drilling Contractor Jamieson Rig 4 Testing Company Elton Tester Lowe-Hamm-Ft




Sub-Surface Equipment

Size of Drill Pipe: 4½ O.D. DP

Thread F-4 : 16.6 #/ft.

Upper Packer: Single Rubber Stinger

Dual Rubber —

Size 7¾ Type Lok

Depth of Bottom Rubber 4466 feet

Interval Tested 4466 - 4556

Lower Packer: Single Rubber —

Dual Rubber —

Size 7¾ Type Lok

Depth of Top Rubber 4551 feet

Depth of Well 4675 feet

Formation Tested _____ Interval 15 feet

Mud Properties: Weight 9.3 #/gal. Funnel Vis. 42 Water Loss 11

Time Waiting on Tester — Time Tool Started in Hole 3:00 pm

Time Tool on Bottom 4:20 pm Calculated Weight of String 6 pts

Weight Set on Packer by Indicator 3 pts

Preflow Period: Interval 4:20 - 4:23 Total Time 3 min.

Initial Shut-in Period: Interval 4:23 - 5:21 Total Time 60 "

Flow Period: Interval 5:21 - 7:21 Total Time 120 "

Final Shut-in Period: Interval 7:21 - 8:21 Total Time 60 "

Tool Pulled Free at 7:40 Weight Increase _____

Tool Out of Hole at 11:30 Rubber Condition _____

Blow Description: Initial Fair Air Blow _____ Gas Blow —

Gas Flow _____ MCFD Measured — Est. _____ Measuring Device _____

Liquid Recovery Total Stands 13 3/4 Feet 1270

Description: Gas cut salty blue drlg fluid

60' mud 1210' salt water

Pressures I.S.I.P. 1704 psi I.F.P. 220 psi I.H.P. 2112 psi B.H.T. — °F

F.S.I.P. 1726 psi F.F.P. 660 psi F.H.P. 2122 psi

Test Satisfactory Yes Misrun _____ Remarks _____

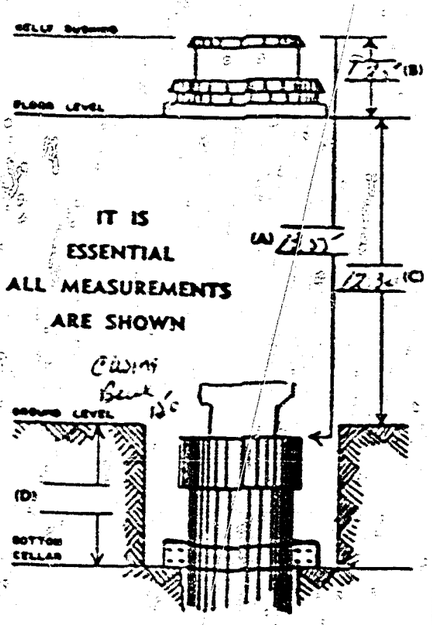
Present at Test K. Shirley, Harrel, Jeffrey, Lewis Supervisor L. Boggs

# Surry-Rainbow Oil Limited

## CASING REPORT

Name of Well Surry Lennuck Lake #2 (9-15) Rig No. Jennings 9 Date July 20/70

### DIAGRAM NO. 1—SURFACE CASING




IT IS ESSENTIAL ALL MEASUREMENTS ARE SHOWN

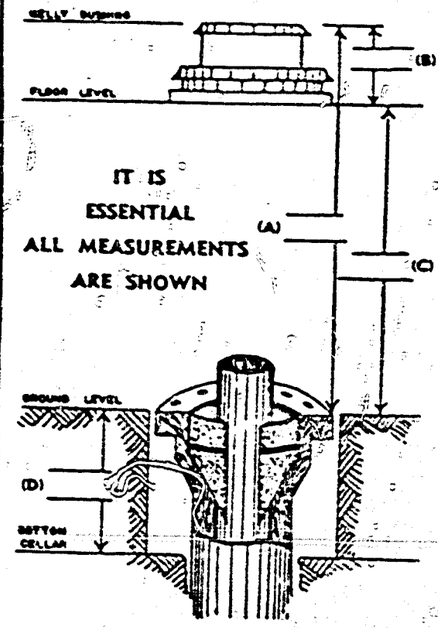
### SECTION 1.—FOR SURFACE CASING ONLY

| | SIZE OD | WT. Lbs./Ft. | GRADE | RGE. | THDS. PER IN. | MAKE | No. OF JOINTS | AMOUNT IN FEET |
|---|---|---|---|---|---|---|---|---|
| 1 | 10¾ | 40.5 | J55 | 2 | 8 | Lakeland | 21 | 742 15 |
| 2 | Guide Shoe | | | | | | | 1 10 |
| 3 | Float Collar | | | | | | | 1 62 |
| 4 | | | | | | | | |
| 5 | Length of Landing Joint | | | | | | (add) | |
| 6 | Total Amount of Casing Used | | | | | | | 745 77 |
| 7 | Distance—Top of K.B. to Top of Collar on Ldg. Jt. | | | | | | (subt.) | 1 30 |
| 8 | Depth of Shoe Below Top of Kelly Bushing | | | | | | | 744 47 |
| 9 | Distance—Top of K.B. to Top of Collar in Cellar | | | | | | (subt.) | 13 62 |
| 10 | Total Amt. Casing Left in Hole including Collar | | | | | | | 730 85 |
| 11 | Length of Collar Cut Off (in 10th of ft.) 15 | | | | | | | |

### SECTION 2—FOR PRODUCTION CASING ONLY

| | SIZE OD | WT. Lbs./Ft. | GRADE | RGE. | THDS. PER IN. | MAKE | No. OF JOINTS | AMOUNT IN FEET |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | Length of Landing Joint | | | | | | (add) | |
| 6 | Total Amount of Casing Used | | | | | | | |
| 7 | Distance—Top of K.B. to Top of Collar on Ldg. Jt. | | | | | | (subt.) | |
| 8 | Depth of Shoe Below Top of Kelly Bushing | | | | | | | |
| 9 | Distance—Top of K.B. to Top of Casing Bowl | | | | | | (subt.) | |
| 10 | Depth of Shoe Below Top of Casing Bowl | | | | | | | |
| 11 | Length of Casing Bowl (in 10th of ft.) | | | | | | | |

### DIAGRAM NO. 2—PRODUCTION CASING




IT IS ESSENTIAL ALL MEASUREMENTS ARE SHOWN

### SECTION 3—FOR LINERS ONLY

| | SIZE OD | WT. Lbs./Ft. | GRADE | RGE. | THDS. PER IN. | MAKE | No. OF JOINTS | AMOUNT IN FEET |
|---|---|---|---|---|---|---|---|---|
| 1 | Make and Type of Liner | | | | | | | |
| 2 | Make and Type of Collar | | | | | | | |
| 3 | Make and Type of Shoe | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | TOTAL FOOTAGE (including collar and shoe) | | | | | | | |

| | | |
|---|---|---|
| 8. | Length of Drillpipe and Subs Used | |
| 9. | Length of Setting Tool Made Up (i.e., tool made up in packer or hanger) | (add) |
| 10. | Length of Casing + Collar + Shoe | (add) |
| 11. | Total Length Run in Hole | = |
| 12. | Distance Tool Joint Above Top K.B. | (subt.) |
| 13. | Depth of Shoe Below K.B. | = |
| 14. | Distance K.B. to Casing Bowl | (subt.) |
| 15. | Depth of Shoe Below Casing Bowl | = |

### SECTION 4—COMPLETE THIS SECTION FOR ALL REPORTS

| | | | | | |
|---|---|---|---|---|---|
| 1. | Make and Type of Casing Shoe | Howco Guide | 10. | Started Rigging to Run Casing | 12 MID - M. |
| 2. | Make and Type of Collar | Float | 11. | Time Casing Started in Hole | 1.00 A.M. |
| 3. | Shoe Welded On? (Yes or No) | Yes | 12. | Time Casing All In | 4.30 A.M. |
| 4. | Collar Welded On? (Yes or No) | Yes | 13. | Time Started Circulating | 4.30 A.M. |
| 5. | No. of Joints Welded | 2 | 14. | Time Stopped Circulating | 5.30 A.M. |
| 6. | Welding Co. | Patterson | 15. | Time Started Cementing | 5.45 A.M. |
| 7. | Operator | — | 16. | Time Cement in Pipe | 6.45 A.M. |
| 8. | Centralizers (give No. and Jt. No.) | 3 | 17. | Time Plug on Bottom | 7.15 A.M. |
| | 1st 3rd, 5th joints | | 18. | Actual Pumping Time to Land Plug | 90 min. |
| 9. | Scratchers (give No. and Jt. No.) | — | 19. | Plug | 763 ft. |
| | | | | (a) Displaced With | 75 bbls. water |
| | | | | (b) Bumped on Float Collar With | 1500 psi. |
| | | | | (c) Bumped on Baffle Plate With | — psi. |
| | | | 20. | Casing Landed in Clamps (make) | — |
| | | | 21. | Casing Landed in Casinghead (make) | — |
| | | | 22. | Casing Suspender (make) | — |

| | | |
|---|---|---|
| 23. | No. Sacks Cement Used | 625 |
| 24. | Additives | 2% CaCl |
| 25. | Method of Cementing | Plug displacement |
| 26. | Hours of Cement to Set | 12 |
| 27. | Cement Returns (yes or no) | Yes |
| 28. | Cementing Co. | Howco |
| 29. | Operator | Wiggett |
| 30. | Helper | — |
| 31. | Toolpusher | Halliday |
| 32. | Engineer | Bruce |

REMARKS: Float held.

N.B.—First joint of casing to include length of collar and shoe.

SCURRY-RAINBOW OI[illegible] LIMITED

TALLY SHEET

No. 3204

Apr 17 1970
DATE

FROM
TO Murray Comstock Nat. #2 (G-15)
SIZE AND KIND 10 3/4" 40.5 & J55 Rge, Mannesmann

| | FEET | In./10s | FEET | In./10s | FEET | In./10s | FEET | In./10s | FEET | In./10s |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 29 | 13 | 27 | 70 | | | | | | |
| 2 | 29 | 93 | 30 | 94 | cut | | Joint | | 964 | 83 |
| 3 | 29 | 96 | 28 | 17 | cut | | Tools | | 172 | 69 |
| 4 | 30 | 91 | 27 | 66 | cut | | Jts | | | |
| 5 | 31 | 20 | 25 | 71 | cut | | Joint | | 792 | 15 |
| 6 | 31 | 22 | 30 | 85 | cut | | Cut Off | | 1 | 10 |
| 7 | 30 | 05 | 29 | 36 | cut | | Float | 1 | 1 | 61 |
| 8 | 33 | 12 | | | | | | | 795 | 87 |
| 9 | 30 | 46 | | | | | | | | |
| 10 | 31 | 81 | | | | | | | | |
| 11 | 33 | 60 | | | | | | | | |
| 12 | 28 | 73 | | | | | | | | |
| 13 | 32 | 18 | | | | | | | | |
| 14 | 30 | 73 | | | | | | | | |
| 15 | 30 | 55 | | | | | | | | |
| 16 | 30 | 39 | | | | | | | | |
| 17 | 31 | 92 | | | | | | | | |
| 18 | 31 | 12 | | | | | | | | |
| 19 | 29 | 83 | | | | | | | | |
| 20 | 30 | 47 | | | | | | | | |
| 21 | 28 | 02 | | | | | | | | |
| 22 | 29 | 66 | | | | | | | | |
| 23 | 30 | 07 | | | | | | | | |
| 24 | 29 | 16 | | | | | | | | |
| 25 | 31 | 10 | | | | | | | | |
| Total | 764 | 45 | 200 | 39 | | | | | | |
| | 200 | 39 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total | 964 | 84 | | | | | | | | |

TALLIED BY:

Ed Gray
SIGNATURE

# CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

## WATER ANALYSIS

File CAL-2-1925 Page 1 of 1

Company Scurry-Rainbow Oil Limited

Well Scurry Cdn-Sun KWG Tenn Corm L G-15 K.B. _____ Grd. 1285'

Location 61 04'27.95" N.L. 122 02'33.11" W.L. Field Cormack Lake Area Province N.W.T.

Formation _____ Interval 6400'

Sampled from DST #2 (500' Above Tool) by Johnston Testers

Date sampled March 18/70 Date analysed March 30/70 Analyst DS

Recovery 1270' Fluid

Mud type _____ Water cushion _____

Resistivity 0.052 Ohm-meters @ 72 °F

Specific gravity 1.1177 @ 60°F

pH 6.60 $H_2S$ Absent

Refractive Index 1.361 @ 72°F

Total Solids:

Calculated 168,990 mg/liter

By evaporation @ 110°C - mg/liter

By evaporation @ 180°C - mg/liter

At ignition - mg/liter

### MILLIGRAMS PER LITER

| Na + K | Ca | Mg | Fe | Ba | Br | I | Cl | $HCO_3$ | $SO_4$ | $CO_3$ | OH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 54,374 | 9,504 | 1,062 | Pres. | Abs. | - | - | 103,046 | 278 | 726 | Nil | Nil |

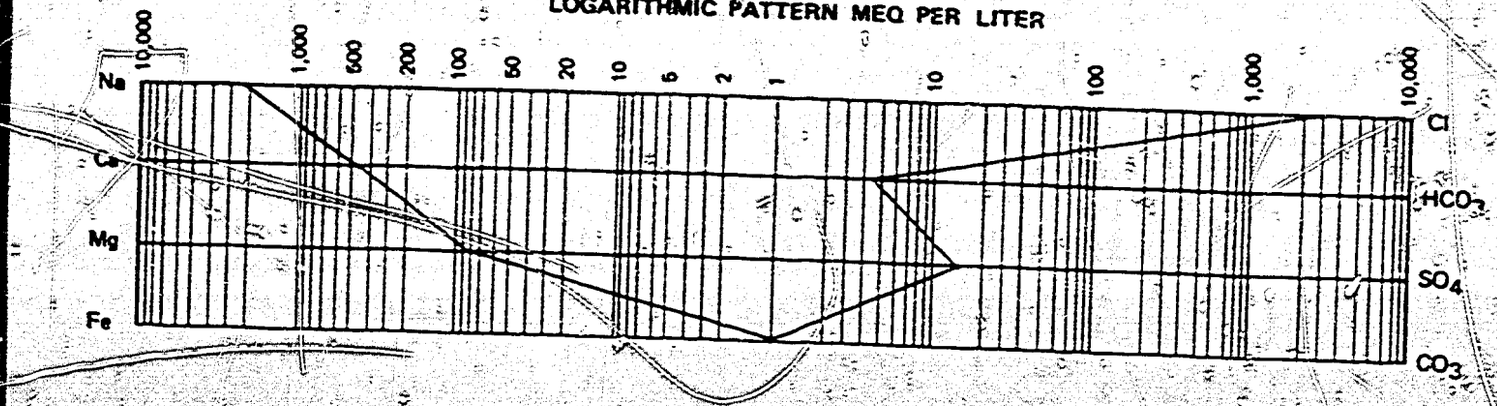
### PER CENT CALCULATED SOLIDS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.2 | 5.6 | 0.6 | Pres. | Abs. | - | - | 61.0 | 0.2 | 0.4 | Nil | Nil |

### MEQ PER LITER

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2364.1 | 474.2 | 87.3 | Pres. | Abs. | - | - | 2905.9 | 4.6 | 15.1 | Nil | Nil |

### LOGARITHMIC PATTERN MEQ PER LITER



# TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

## TEST DATA

| | | | | | |
|---|---|---|---|---|---|
| Formation | SLAVE POINT | Zone Thickness | | | |
| Interval | 4228 To 4248 | T.D. 4275 | Ft. | | |
| Type of Test | OPEN HOLE, STRADDLE, BYPASS. | | | | |
| Time Started in Hole | 0915 Hrs | Time Opened | 1129 | Hrs | |
| First Flow | 5 Min | Initial Shut-in | 60 | Min | |
| Second Flow | 120 Min | Second Shut-in | | Min | |
| Third Flow | Min | Final Shut-in | 60 | Min | |
| Pulled Loose at | 1550 Hrs | Left Hole | 1830 | Hrs | |
| Wt. Set on Packers | 40,000 ± | Pulled Loose Wt. | 120,000 | ± | |

Description of Blow During Test

SMALL PUFF ON PREFLOW, SMALLER ON SECOND FLOW, DEAD IN 20 MINUTES.

## TOOL SEQUENCE

| | Length | OD |
|---|---|---|
| P.O. Sub | .80 | |
| D.C. Sub | .80 | |
| MFE Tool | 10.00 | |
| Bypass Tool | 3.75 | |
| Recorder | 4.40 | |
| Jars | 6.75 | |
| H. Sub | .00 | |
| Safety Joint | 1.75 | |
| S.S. & Packer | 9.00 | 7 1/2" |
| T.C. & Packer | 4.80 | 7 1/2" |
| Total | 42.85 | |
| Sub. | 1.40 | |
| Perf. | 10.00 | |
| R. Sub | .80 | |
| Recorder | 4.40 | |
| T.C. & Stub. | 3.50 | |
| Total Interval | 20.10 | |
| Packer | 2.50 | 7 1/2" |
| T.C. & Packer | 6.20 | 7 1/2" |
| Recorder | 5.90 | |
| Perf. | 15.00 | |
| Drill Pipe | 594.28 | |
| Subs | 1.60 | |
| B.N. & Perf. | 1.65 | |
| Total Below Intv. | 627.13 | |

## FLUID RECOVERY

Was Test Reverse Circulated Yes No X

Total Fluid Recovered 15 Ft.

Description of Fluid Recovered

15' MUDDY WATER.

## GAS BLOW MEASUREMENT

Measured With D Riser

Type of Instrument

| Time | Stck Choke | Reading or Pressure | M Cubic Feet Day |
|---|---|---|---|

NIL

| | |
|---|---|
| Total Length | 690.08 |
| Elevation | NOT REPORTED. |
| Bottom Hole Choke Size | 1/2" |
| Fluid Cushion Type | NIL Amt. |

## MUD AND HOLE DATA

| | | | |
|---|---|---|---|
| Mud Type | | WL | 4.0 |
| Filter Cake | 2/32 | Vis. 129 | Wt. 9.3 |
| Time Taken | | | |
| Contractor | JENNINGS DRLG. | Rig No. | 9 |
| Drill Pipe Size | 4 1/2 XH | | |
| Drill Collar Size | 2 3/16 ID | Length | 474' |
| Main Hole Size | 8 3/4" | | |
| Rat Hole Size | | | |

REMARKS: TEST SATISFACTORY.
INTERVAL REPORTED WAS 4230 - 4250.
ACTUAL INTERVAL TESTED BY TOOL LENGTHS WAS 4228 - 4248.
MFE SAMPLE DRAINED ON LOCATION.

| RESISTIVITY | | | CHLORIDE CONTENT | |
|---|---|---|---|---|
| Recovery Water | | °F. | | ppm |
| Mud Pit sample filtrate | | °F | | ppm |

District: HIGH LEVEL Ticket No. D-070093 Date: MARCH 17, 1970 Test No. 1 J.T. No. 1

Company: SCURRY-RAINBOW OIL LTD. Address: 539 - 8TH AVENUE S.W.

Well Name: SCURRY CON SUP KMG TENN CORM D-G-15 CALGARY 2, ALBERTA

Number: 61° 04' 27"N 122° 02' 33"W Field: CORMACK LAKE Province: NORTH WEST TERRITORIES

Formation: SLAVE POINT Co. Rep: E. GRIGGS (CONSULTANT)

and Interval: 4228 - 4248 DST #1 Technician: R. HANNETT

Distribution of Reports:
9 - CALGARY, 1 - DATA CENTER (ENCLOSED).

**JOHNSTON TESTERS**

D-04095

## PRESSURE DATA

| | | | | |
|---|---|---|---|---|
| INSTRUMENT No. | | AK1-2562 | AK1-2112 | AK1-2086 |
| CAPACITY psig | | 4000 | 7000 | 4400 |
| INSTRUMENT DEPTH FT | | 4206 | 4240 | 4257 |
| INSTRUMENT OPENING | | INSIDE | OUTSIDE | OUTSIDE |
| PRESSURE GRADIENT psi/FT | | | | |
| WELL TEMP °F | | 123 | | |
| INITIAL HYDROSTATIC | A | 2169# | 2200# | 2204# |
| FIRST FLOW | B | 0 | 49# | |
| | B-1 | 0 | 49# | A-1 2353# |
| INITIAL SHUT-IN | C | 2269# FALSE | 2303# FALSE | |
| SECOND FLOW | D | 22# | 53# | |
| | D-1 | 24# | 56# | RAN BELOW |
| SECOND SHUT-IN | E | | | STRADDLE |
| THIRD FLOW | F | | | |
| | F-1 | | | A-2 1975# |
| FINAL SHUT-IN | G | 67# | 97# | |
| FINAL HYDROSTATIC | H | 2130# | 2162# | 2164# |

REMARKS

## FLUID SAMPLE REPORT

Sample No
Type
Depth ft
Volume
Sample Pressure
psig at Surface
Gravity API @ F
Gas Oil Ratio Cu Ft/Bbl

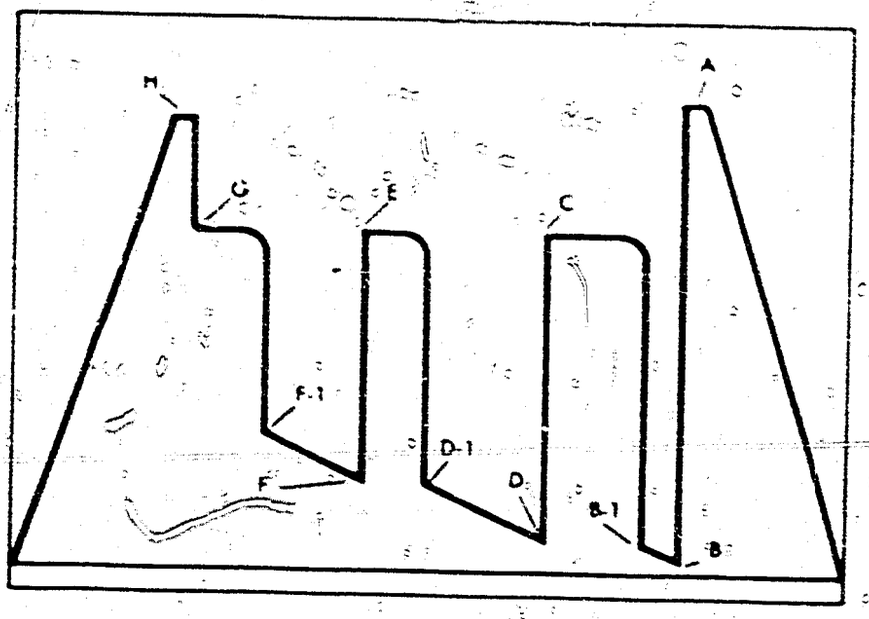
Recovery
Cu Ft Gas
cc Oil
cc Water
cc Mud
Total Liquid cc

## PRESSURE INCREMENTS

| POINT MINUTES | PRESSURE | $\frac{T+\Delta T}{\Delta T}$ | POINT MINUTES | PRESSURE | $\frac{T+\Delta T}{\Delta T}$ | POINT MINUTES | PRESSURE | $\frac{T+\Delta T}{\Delta T}$ |
|---|---|---|---|---|---|---|---|---|

JOHNSTON TESTERS

# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



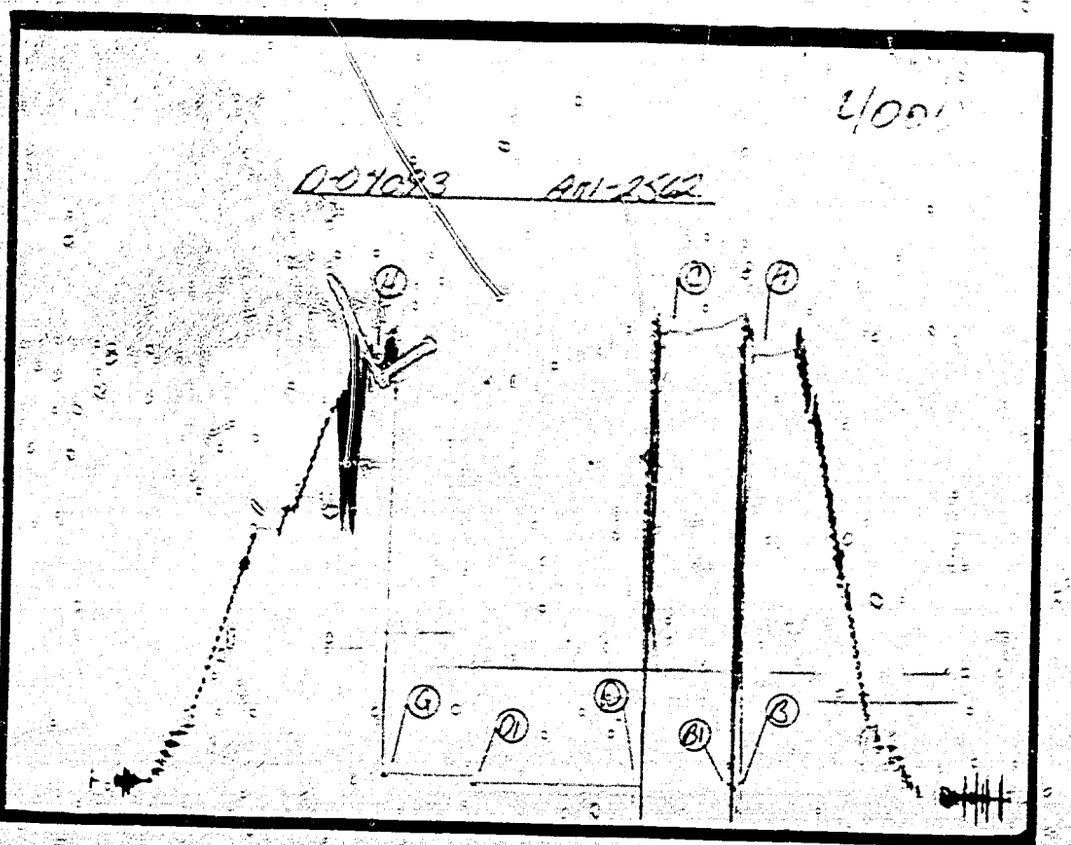

A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

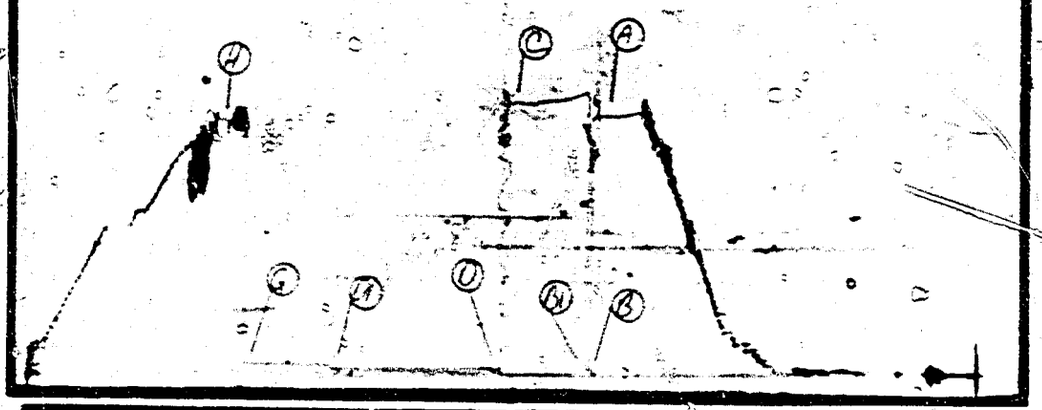
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown

JOHNSTON TESTERS

| FIELD REPORT NO. | RECORDER NO. | CAPACITY | REPORTS REQUESTED |
|---|---|---|---|
| D-04093 | AK1-2562 | 4000 | 10 |

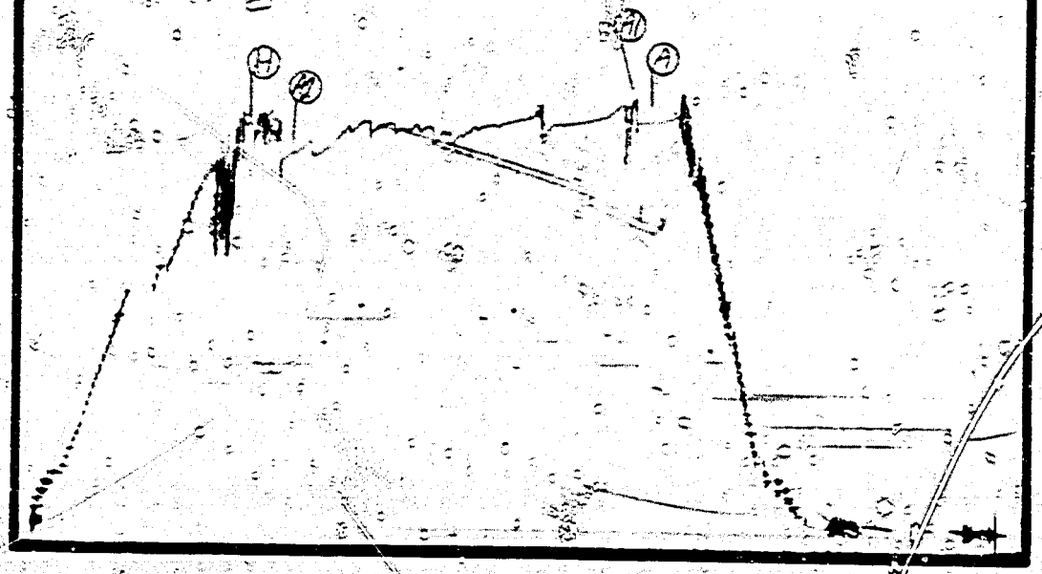


A-04095 AZ1-2112




A-04093 AZ1-2086

Ran Below Straddle



# TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

## TEST DATA

| | | | | | | |
|---|---|---|---|---|---|---|
| Formation | | Zone Tested | | | | Ft |
| Interval | 4393 | To | 4543 | To | 4875 | Ft |
| Type of Test | OPEN HOLE, STRADDLE, BYPASS. | | | | | |
| Time Started in Hole | 1400 | Hrs | Time Opened | 1625 | Hrs | |
| First Flow | 3 | Min | Initial Shut-In | 60 | Min | |
| Second Flow | 120 | Min | Second Shut-In | | Min | |
| Third Flow | | Min | Final Shut-In | 60 | Min | |
| Pulled Loose at | 2045 | Hrs | Out of Hole | 2230 | Hrs | |
| Wt. Set on Packers | 32,000 | # | Pulled Loose Wt. | 120,000 | # | |

Description of Blow During Test

FAIR BLOW THROUGHOUT TEST.

## FLUID RECOVERY

Was Test Reversed Circulated Yes No X

Total Fluid Recovered 1270 Ft

Description of Fluid Recovered

60' DRILLING FLUID.

1210' SALT WATER AND DRILLING FLUID.

## GAS BLOW MEASUREMENT

Measured With ID Riser

Type of Instrument

| Time | Size Choke | Reading psi inches | M Cubic Feet Day |
|---|---|---|---|
| | | NIL | |

## TOOL SEQUENCE

| Tool | Length | OD |
|---|---|---|
| P.C. Sub | .80 | |
| Sub | .80 | |
| MFE Tool | 10.00 | |
| Bypass Tool | 3.75 | |
| Recorder | 5.90 | |
| Jars | 6.75 | |
| H. Sub | .80 | |
| Safety Joint | 1.75 | |
| C.S. & Packer | 9.00 | 7 1/2" |
| T.C. & Packer | 4.80 | 7 1/2" |
| Total | 44.35 | |
| Stub. | 1.40 | |
| Perf. | 20.00 | |
| R. Sub | .80 | |
| Recorder | 4.40 | |
| Sub | .80 | |
| Drill Collars | 118.67 | |
| D.P. Sub | .80 | |
| T.C. & Stub. | 3.50 | |
| Total Interval | 150.37 | |
| Packer | 2.50 | 7 1/2" |
| T.C. & Packer | 6.40 | 7 1/2" |
| Recorder | 4.40 | |
| Perf. | 3.00 | |
| Drill Pipe | 312.49 | |
| Sub | 1.60 | |
| B.N. & Perf. | 1.65 | |
| Total Below Intv. | 332.04 | |
| TOTAL LENGTH | 526.76 | |

Elevation NOT REPORTED.

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

## MUD AND HOLE DATA

Mud Type W.L. 4.0

Filter Cake 2/32 Visc. 129 Wt. 9.4

Time Taken

Contractor JENNINGS DRLG. Rig No. 9

Drill Pipe Size 4 1/2 XH

Drill Collar Size 2 3/16 ID Length 118.67'

Main Hole Size 8 3/4"

Rat Hole Size

REMARKS: TEST SATISFACTORY.
INTERVAL REPORTED WAS 4400 - 4550.
ACTUAL INTERVAL TESTED BY TOOL LENGTHS WAS 4393 - 4543.
MFE SAMPLE DRAINED ON LOCATION.

| | RESISTIVITY | | CHLORIDE CONTENT | |
|---|---|---|---|---|
| Recovery Water | @ | °F. | 218,000 | ppm. |
| Mud Pit sample filtrate | @ | °F | | ppm. |

District HIGH LEVEL Ticket No. D 04094 Date MARCH 18, 1970 Test No. 2 J.T. No. 2

Company SCURRY-RAINBOW OIL LTD. Address 550 - 8TH AVENUE S.W.

Well Name SCURRY CDN SUP KMG TENN CORM L G-15 CALGARY 2, ALBERTA

Number 61° 04' 27"N 122° 02' 33"W Field CORMACK LAKE Province NORTH WEST TERRITORIES

Formation and Interval 4393 - 4543 DST#2 Co. Rep. E. GRIGGS (CONSULTANT)

Technician R. HANNETT

Distribution of Reports

9 - CALGARY, 1 - DATA CENTER (ENCLOSED).

**JOHNSTON TESTERS** 321 10TH AVENUE S.E. · CALGARY 24, ALBERTA · PH. 262-1181

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 04094

## PRESSURE DATA

| | | | | |
|---|---|---|---|---|
| INSTRUMENT No. | | AK1-2562 | AK1-2086 | AK1-2112 |
| CAPACITY psig | | 4000 | 4400 | 7000 |
| INSTRUMENT DEPTH FT | | 4370 | 4415 | 4551 |
| INSTRUMENT OPENING | | INSIDE | OUTSIDE | OUTSIDE |
| PRESSURE GRADIENT psi/FT | | | | |
| WELL TEMP °F | 126 | | | |
| INITIAL HYDROSTATIC | A | 2046# | 2074# | 2132# |
| FIRST FLOW | B | 9# | 262# | |
| | B-1 | 51# | 396# | A-1 2524# |
| INITIAL SHUT-IN | C | 1795# | 1818# | |
| SECOND FLOW | D | 78# | 412# | |
| | D-1 | 574# | 645# | RAN BELOW |
| SECOND SHUT-IN | E | | | STRADDLE |
| THIRD FLOW | F | | | |
| | F-1 | | | A-2 1927# |
| FINAL SHUT-IN | G | 1773# | 1801# | |
| FINAL HYDROSTATIC | H | 1977# | 1996# | 2061# |

REMARKS:

## FLUID SAMPLE REPORT

Sample No.
Type
Depth ft
Volume

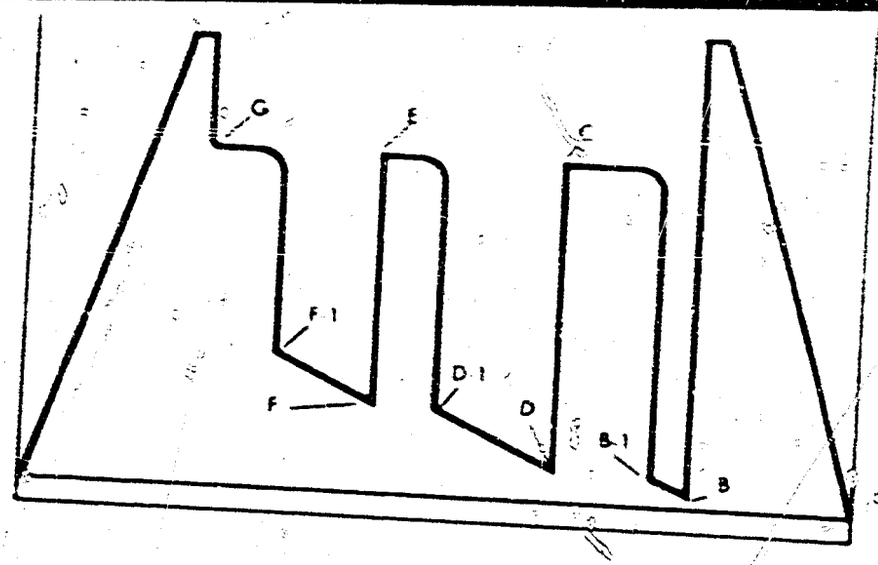
Sample Pressure P
psig. at Surface

Gravity API @ °F
Gas Oil Ratio Cu Ft bbl

Recovery
Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Total Liquid cc

## PRESSURE INCREMENTS

| POINT MINUTES | PRESSURE | $\frac{T + \Delta T}{\Delta T}$ | POINT MINUTES | PRESSURE | $\frac{T + \Delta T}{\Delta T}$ | POINT MINUTES | PRESSURE | $\frac{T + \Delta T}{\Delta T}$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |



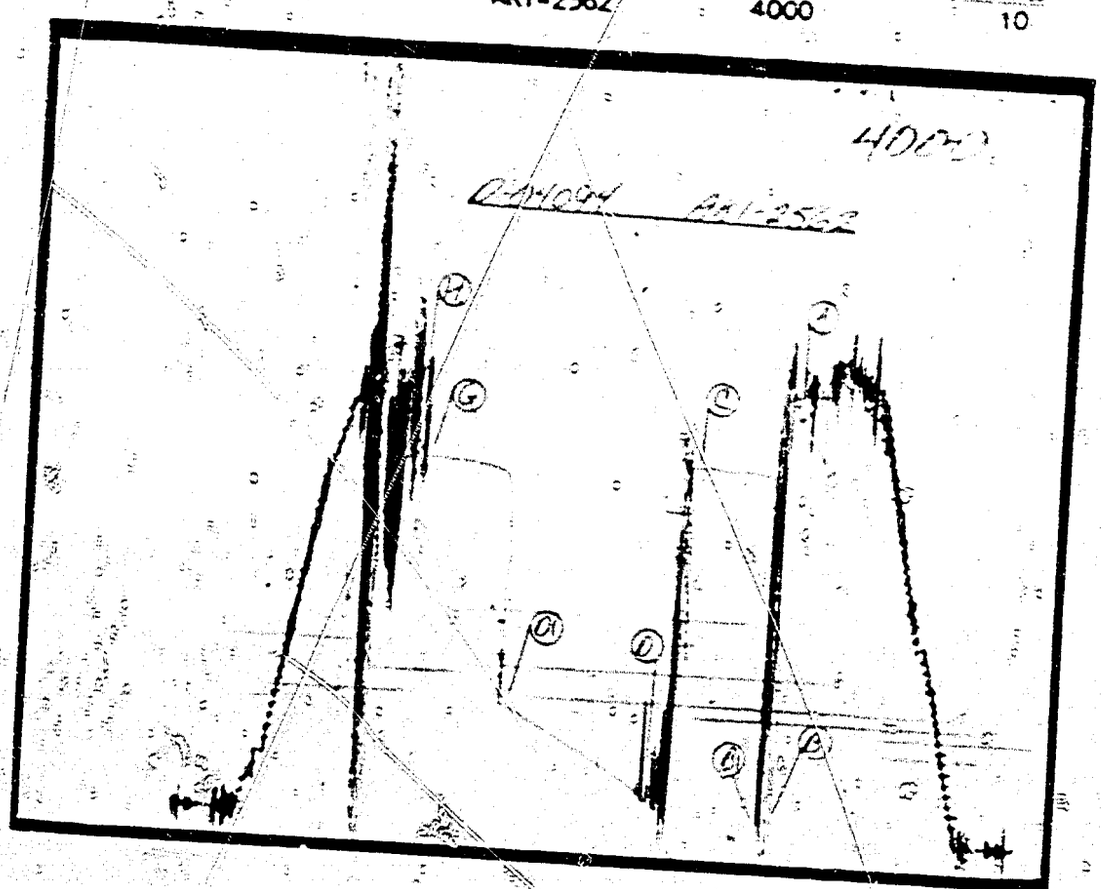

C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones)

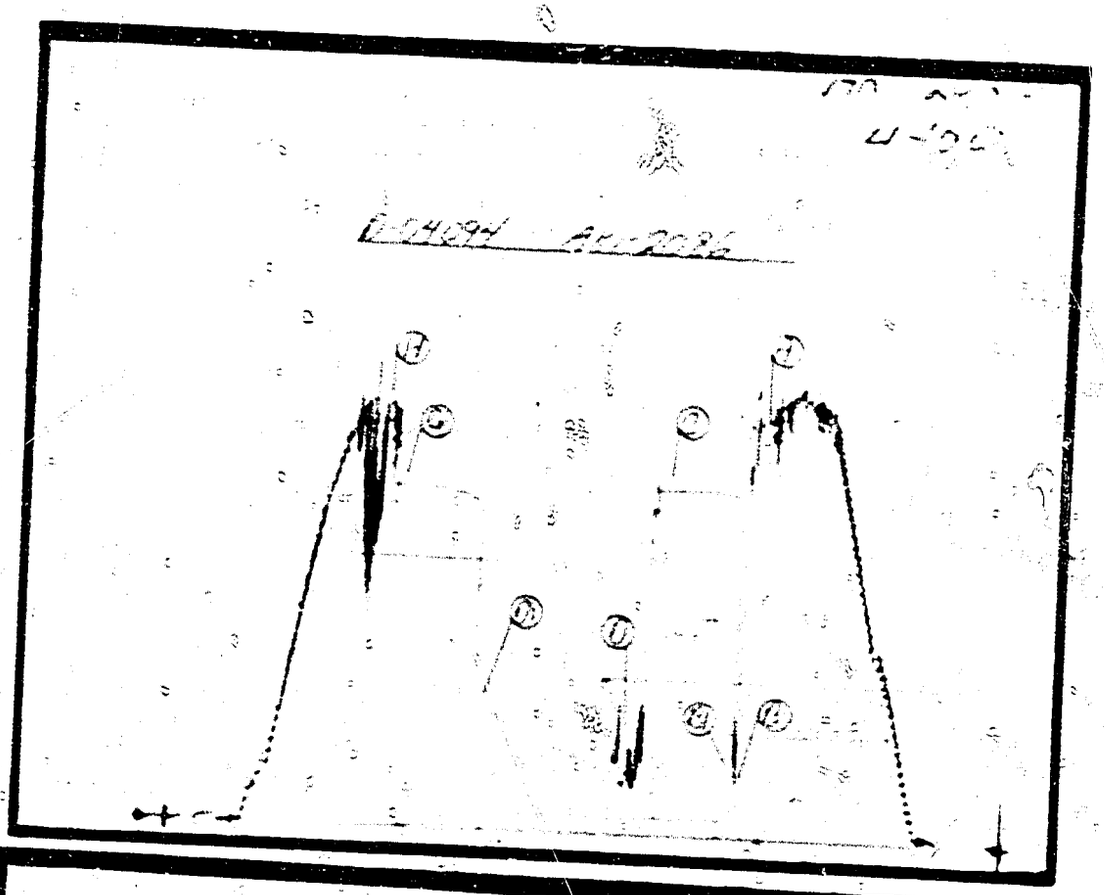
A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z – Special pressure points such as pumping pressures recorded for formation breakdown

**JOHNSTON TESTERS**

| FIELD REPORT NO | RECORDER NO | CAPACITY | REPORTS REQUESTED |
|---|---|---|---|
| D 04094 | AK1-2562 | 4000 | 10 |



U-04094 AK-2086



U-04094 AK-2112

Bar Below Straddle

# DAILY DRILLING REPORT

REPORT NO. DATE Mar 23/70

OPERATOR: Scurry Rainbow

LEASE: Scurry-Cremack Sk #2

WELL NO. | FIELD OR DIST. | COUNTY | STATE: N.W.T.

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

**TIME SUMMARY (OFFICE USE ONLY)**

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

**WIRE LINE RECORD**

REEL NO.
NO. OF LINES | SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HR.

## MORNING TOUR

**DRILLING ASSEMBLY AT END OF TOUR** — NO.

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

**FOOTAGE**

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE | REMARKS |
|---|---|---|---|---|
| | | | | |

## DAY TOUR

**DRILLING ASSEMBLY AT END OF TOUR** — NO.

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

**FOOTAGE**

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| | | | TRAVEL TO HIGH LEVEL UNLOAD EQUIPMENT FROM DESILTER HOUSE TO HIGHWAY CASE BOWLS, SAMPLE BOXS. OVERSHOTS MAGNETS, STABILIZER, NEW SUPPLY BITS ETC. |
| | | | CREW IN TRANSIT TO EDMONTON. |

## EVENING TOUR

**DRILLING ASSEMBLY AT END OF TOUR** — NO.

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

**FOOTAGE**

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| | | | |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. | DATE Mar. 22/70

OPERATOR: Lowry Rainbow

LEASE: Lowry Cormack Lk #2

WELL NO. | FIELD OR DIST. | COUNTY | STATE

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER

FOOTAGE: FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COMP-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

## DAY TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER

FOOTAGE: FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COMP-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 12:00 | 16 | UNLOAD TRUCKS & RACK RIG. TEAR OUT LIGHT PLANT, CATHEADS, OIL PUMPS, WELD BULKHEADS SHUT. FCT. LOAD TRUCK TO HAUL HALIBURTON SKID UNIT, DESILTER TO HIGH LEVEL. |

## EVENING TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER

FOOTAGE: FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COMP-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED — APPROVED

**A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM**

KODAK SAFETY FILM

# DAILY DRILLING REPORT

REPORT NO. | DATE Mar 21/70

OPERATOR: Scurry Rainbow

LEASE: Scurry Cormack Lk #2

WELL NO. | FIELD OR DIST. | COUNTY | STATE: N.W.T.

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

DRILL PIPE/STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

LAST CASING | TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN. | DAY | EVE. |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TRIALS | | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

## WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER

FOOTAGE: FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

Unload Rig & Back @ Raps Yard
At Ft. Brav.

Changed Oil & Filters in Cat Motors.

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER

FOOTAGE: FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

8:00 Finish Loading Rig
Tear Out Camp & Load

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FLTR. CK | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER

FOOTAGE: FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 33 DATE Mar. 20/70

OPERATOR: Scurry Rainbow

LEASE: Scurry Cormack Lk #2

WELL NO. | FIELD OR DIST. | COUNTY | STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Driggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

### TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

### WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L Pinchuk

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 00 | 12 30 | 1/4 | Rig Sfa. |
| 12 30 | 4 00 | 3 3/4 | Lay Down BOPs & Clean Mud Tanks. |
| 4 00 | 8 00 | 4 | Tear Out Rig. |

Rig released 4.00 a.m March 19/70

E. Driggs. March 20/70

## DAY TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8 00 | 8 00 | 12 | Tear Out & Load Rig. |

## EVENING TOUR

NO. | DRILLING ASSEMBLY AT END OF TOUR

| | |
|---|---|
| STANDS D.P. | FT. |
| SINGLES D.P. | FT. |
| D.C. I.D. O.D. | FT. |
| D.C. I.D. O.D. | FT. |
| STB. BODY O.D. | FT. |
| STB. BODY O.D. | FT. |
| RMR. BODY O.D. | FT. |
| SUBS O.D. | FT. |
| BIT OR C.B. | FT. |
| | FT. |
| KELLY DOWN | FT. |
| TOTAL | FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| | | | |

APPROVED — A.P.I.

APPROVED — A.A.O.D.C.

**A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM**

DAILY DRILLING REPORT — REPORT NO. 32 — DATE MARCH 19TH 1990

OPERATOR: Scurry Rainbow

LEASE: Cormack Lk. #2

DRILLING G — LIC. # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. B — FIELD OR DIST. Cormack Lk #2 — COUNTY CANADA — STATE N.W.T.

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD. X.H. — TOOL JOINT 6 1/4 O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Les Bruce

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | Emsco | DA 500 | 16 |
| 2. | Emsco | DA 500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | | 795 | | | |

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | 8 | |

TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4351.00 FT. |
| 2 | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 0 |
| SIZE | 8 |
| MFG. | E |
| TYPE | N |
| NOZZLE NO. | |
| NOZZLE SIZE | B |
| SER. NO. | N |
| DEPTH OUT | D |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L. Pinchuk

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COM-D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | TD | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 1:30 | 1½ | Break & Lay Down Test Tool. |
| 1:30 | 2:00 | ½ | Lay Down Drill Collars, & 8 Singles. |
| 2:00 | 2:45 | ¾ | Trip |
| 2:45 | 3:15 | ½ | Greg. |
| 3:15 | 4:00 | ¾ | Run plug 1 from 4350-4150 (110 sks + 3% CaCl) |
| 4:00 | 8:00 | 4 | Wait on cement |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | |
|---|---|
| | STANDS D.P. FT. |
| | SINGLES D.P. FT. |
| | D.C. I.D. O.D. FT. |
| | D.C. I.D. O.D. FT. |
| | STB. BODY O.D. FT. |
| | STB. BODY O.D. FT. |
| | RMR. BODY O.D. FT. |
| | SUBS O.D. FT. |
| | BIT OR C.B. FT. |
| | FT. |
| | KELLY DOWN FT. |
| | TOTAL FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Brian Halladay

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COM-D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | 1/4 | Rig Ser. |
| 8:15 | 11:05 | 3 | W.O.C. |
| 11:05 | 12:00 | 3/4 | Run In To Feel Plug #1 |
| 12:00 | 12:45 | 3/4 | Pull Out To Run Plug #2 |
| 12:45 | 1:15 | 1/2 | Mix & Pump Down Plug #2 From 850' To 750' 75 sks + 3% CaCl |
| 1:15 | 4:00 | 2 3/4 | W.O.C. & Lay Down Pipe. |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | |
|---|---|
| | STANDS D.P. FT. |
| | SINGLES D.P. FT. |
| | D.C. I.D. O.D. FT. |
| | D.C. I.D. O.D. FT. |
| | STB. BODY O.D. FT. |
| | STB. BODY O.D. FT. |
| | RMR. BODY O.D. FT. |
| | SUBS O.D. FT. |
| | BIT OR C.B. FT. |
| | FT. |
| | KELLY DOWN FT. |
| | TOTAL FT. |
| WT. OF STRING | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR-EL-P COM-D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | 1/4 | Rig Ser. |
| 4:15 | 9:00 | 4 3/4 | W.O.C. |
| 9:00 | 9:15 | 1/4 | Run In & Feel Plug #2 @ 732' |
| 9:15 | 10:00 | 3/4 | Lay Down Pipe |
| 10:00 | 12:00 | 2 | Tear Out B.O.P.s |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 31 DATE MARCH 18TH 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK. #2

DRILLING LIC. # 410

WELL NO. 2 FIELD OR DIST. CORMACK LK. #2 COUNTY CANADA STATE N.W.T.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4½ SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. X-H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Griffs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | D A500 | 16 |
| 2. | EMSCO | D A500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | | 795 | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¼ | | |
| TRIPS | ¼ | 3¼ | |
| LUBRICATE RIG | ¼ | ¼ | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | ¼ | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT ORDERS | | ¼ | |
| DRILL STEM TEST | | | |
| OTHER | | 3¼ | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 1/8 |
| FEET SLIPPED | |
| FEET CUT, OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 46 | STANDS D.P. | 4351.00 |
| 2 | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL 4330 | FT. |
| WT. OF STRING | 88,000 | LBS. |

BIT RECORD: BIT NO. 0; SIZE 8; MFG. E; TYPE N; NOZZLE NO. —; NOZZLE SIZE E; SER. NO. N; DEPTH OUT D; DEPTH IN —; TOTAL FTG. —; TOTAL HR. RUN —; COND. OF BIT —; REAMER NO. —; REAMER TYPE —

MUD RECORD: TIME 6⁰⁰; WEIGHT 9.4; VISC.-SEC 129; W.L.-C.C. 4.4; FLTR. CK. 2/32; PH 9.5; SD. CONT. % —; PRESSURE GRADIENT —

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT. —

DRILLER: Len Lucko

FOOTAGE: FROM 4875 TO T.D.

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12⁰⁰ | 12¹⁵ | ¼ | SER. RIG. |
| 12¹⁵ | 12³⁰ | ¼ | CHECK MOTOR SHUT OFFS & BOPS ETC. |
| 12³⁰ | 1³⁰ | 1 | TRIP |
| 1³⁰ | 8⁰⁰ | 6½ | CIRC. & WAIT ON ORDERS |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. —; SIZE —; MFG. —; TYPE —; NOZZLE NO. —; NOZZLE SIZE —; SER. NO. —; DEPTH OUT —; DEPTH IN —; TOTAL FTG. —; TOTAL HR. RUN —; COND. OF BIT —; REAMER NO. —; REAMER TYPE —

MUD RECORD: TIME —; WEIGHT —; VISC.-SEC —; W.L.-C.C. —; FLTR. CK. —; PH —; SD. CONT. % —; PRESSURE GRADIENT —

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT. —

DRILLER: Brian Halladay

FOOTAGE: FROM — TO —

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SERVICE |
| 8:15 | 9:30 | 1¼ | ~~TEST~~ WAIT ON ORDERS |
| 9:30 | 10:45 | 1¼ | HOIST PIPE |
| 10:45 | 2:00 | 3¼ | MAKE UP TESTING TOOL |
| 2:00 | 4:00 | 2 | RUN IN WITH TEST #2 |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | 0 | LBS. |

BIT RECORD: BIT NO. —; SIZE —; MFG. —; TYPE —; NOZZLE NO. —; NOZZLE SIZE —; SER. NO. —; DEPTH OUT —; DEPTH IN —; TOTAL FTG. —; TOTAL HR. RUN —; COND. OF BIT —; REAMER NO. —; REAMER TYPE —

MUD RECORD: TIME —; WEIGHT —; VISC.-SEC —; W.L.-C.C. —; FLTR. CK —; PH —; SD. CONT. % —; PRESSURE GRADIENT —

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT. 8³⁰

DRILLER: Len Lucko

FOOTAGE: FROM 4875 TO T.D.

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE |
| 4:15 | 4:30 | ¼ | HEAD UP ~~TOOLS~~ TEST |
| 4:30 | 8³⁰ | 4 | TESTING WITH JOHNSON |
| 8³⁰ | 12⁰⁰ | 3½ | TRIP out W/DST #2 |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 30 DATE MARCH 17TH 1970

DRILLING LIC. # 410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| Scurry Rainbow | Cormack Lk. # 2 | 2 | Cormack Lk. # 2 | CANADA | N.W.T. |

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. — SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Bruyn

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halliday.

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 776 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | 1¼ | 3¼ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | 1 | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | 4 | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | 4 | |
| OTHER | | 2½ | 4½ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

**TIME SUMMARY (OFFICE USE ONLY)**

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

**WIRE LINE RECORD**

REEL NO.

NO. OF LINES — SIZE 1/2

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

NO.

| | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. I.D. | O.D. | FT. |
| D.C. I.D. | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |

WT. OF STRING ____ LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Lew Lockett

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D. | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 4:00 | 4:00 | Logging |
| 4:00 | 4:15 | ¼ | See R.B. Circle Motor Shut Offs. |
| 4:15 | 5:00 | 3/4 | Slip 49' & Cut 49' Drilling Line |
| 5:00 | 6:15 | 1 1/4 | W.O. Log, Reading |
| 6:15 | 8:00 | 1 3/4 | Pick up & Making up D.S.T. # 1 |

(Tail Pipe Ran 6 Stands 1 Single)

## DAY TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

NO.

| | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. I.D. | O.D. | FT. |
| D.C. I.D. | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |

WT. OF STRING ____ LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Brian Sadowy

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D. | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | Rig Service + Check B.O.Pe |
| 8:15 | 9:15 | 1 | Pick up + Makeup Testing Tool |
| 9:15 | 10:00 | 1¾ | Run in with Test #1 |
| 10:00 | 11:30 | 1½ | Head up Test + Blow Flare Line |
| 11:30 | 3:30 | 4 | Testing with Johnson |
| 3:30 | 4:00 | ½ | Trip out Head |

## EVENING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

NO.

| | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. I.D. | O.D. | FT. |
| D.C. I.D. | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |

WT. OF STRING ____ LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | Nil | | |

DRILLER Lew Lockett

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D. | | | | | | | | | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service |
| 4:15 | 6:30 | 2¼ | Hoist for Test #1 |
| 6:30 | 8:00 | 1½ | Break down Testing Tool. |
| 8:00 | 9:00 | 1 | Load out Testing Tool |
| 9:00 | 10:00 | 1 | Run in Drill Collars |
| 10:00 | 12:00 | 2 | Lay Down Drill Collars (Inhibitor Treated) |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 29 DATE MARCH 16TH 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK. #2 — DRILLING LIC. # 410

WELL NO. 2 — FIELD OR DIST. CORMACK LK. #2 — COUNTY CANADA — STATE N.W.T.

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD XH — TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Drake

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

| PUMPS NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA500 | 16 |
| 3 | | | |

| LAST CASING TUBING OR LINER | SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 9 3/4 | | | 26 | | | 795 | |
| | | | | | | | | |
| | | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7¼ | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | ½ | |
| TRIPS | | 2½ | |
| LUBRICATE RIG | ¼ | ¼ | |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | 8 | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ½ | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE 1/16

FEET SLIPPED

FEET CUT-OFF

PRESENT LENGTH

TONNAGE OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 16 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | | FT. |
| | D.C. 6¼ I.D. O.D. | 474.51 | FT. |
| 1 | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 1 | SUB O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | | FT. |
| | TOTAL | | FT. |
| | WT. OF STRING | 116,000 | LBS. |

BIT RECORD: BIT NO. 13 — SIZE 8¾ — MFG. H.W. — TYPE RG2BXJ — NOZZLE NO. 3, SIZE 12 — SER. NO. 21998 — DEPTH OUT 4842 — DEPTH IN 4842 — TOTAL FTG. 30 — TOTAL HR. RUN 17 — COND. OF BIT 2-2-1 — REAMER NO. — REAMER TYPE

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 1:00 | 3:00 | 6:00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.—SEC | 130 | 128 | 129 |
| W.L.—C.C. | 4.8 | 4.6 | 4.0 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT. — No Stick 1 gal.

DRILLER: Tom Pinchuk

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4856 | 4872 | 16 | | | | | | | | | | |
| | | | | | | 38 | 30 | 1000 | 5½ | 58 | | |

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | SER. RIG & CHECK KELLY VALVE (ok) |
| 12:15 | 8:00 | 19¾ | DRILL 8¾" H |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 16 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | 31.30 | FT. |
| | D.C. 6¼ I.D. O.D. | 474.51 | FT. |
| 1 | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | 5.10 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 24.00 | FT. |
| | TOTAL | 4870 | FT. |
| | WT. OF STRING | 118,000 | LBS. |

BIT RECORD: BIT NO. 13 — SIZE 8¾ — MFG. HW. — TYPE RG2BX — NOZZLE NO. 3, SIZE 12 — SER. NO. ZL998 — DEPTH OUT 4875 — DEPTH IN 4872 — TOTAL FTG. 33 — TOTAL HR. RUN 18 — COND. OF BIT 2-2-1 — REAMER NO. — REAMER TYPE

MUD RECORD

| | |
|---|---|
| TIME | 10:00 |
| WEIGHT | 9.3 |
| VISC.—SEC | 62 |
| W.L.—C.C. | 3.4 |
| FL.TR. CK. | 2/32 |
| PH | 9.5 |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT. — No Stick 1 gal

DRILLER: Brian Dalloway

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4872 | 4875 | 3 | | | | | | | | | | |
| | | | | | 40 | 32 | 1000 | 5½ | 56 | | | |

DEVIATION RECORD: 4875 — 2° / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 9:45 | 1¼ | RIG SERVICE & CHECK BOPs |
| 9:45 | 10:45 | 1 | CIR PRIOR TO LOGGING |
| 10:45 | 11:00 | ¼ | SURVEY at 4875 |
| 11:00 | 1:30 | 2½ | HOIST TO LOG (MEASURE OUT) |
| 1:30 | 2:00 | ½ | RIG UP DRESSER ATLAS |
| 2:00 | 4:00 | 2 | LOGGING WITH DRESSER ATLAS |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 16 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | 31.30 | FT. |
| | D.C. 6¼ I.D. O.D. | 474.51 | FT. |
| 1 | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | 5.10 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUB O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 24.00 | FT. |
| | TOTAL | 4875 | FT. |
| | WT. OF STRING | 118,000 | LBS. |

BIT RECORD: BIT NO. — SIZE — MFG. — TYPE — NOZZLE NO. — SIZE — SER. NO. — DEPTH OUT — DEPTH IN — TOTAL FTG. — TOTAL HR. RUN — COND. OF BIT — REAMER NO. — REAMER TYPE

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL.TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: L. Pinchuk

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D. | | | | | | | | | | | |

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 2:00 | 10:00 | 8 | LOGGING WITH DRESSER ATLAS |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 28 — DATE MARCH 15TH 1970

OPERATOR: Scurry Rainbow

LEASE: Cormack Lk #2

Dell. Lic. # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 — FIELD OR DIST. Cormack Lk. #2 — COUNTY Canada — STATE N.W.T.

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD. X H — TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Griffith

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA-500 | 16 |
| 3 | | | |

LAST CASING, TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | | T95 |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | WORK | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | 3 | | |
| DRILLING ACTUAL | 17¼ | 3 | 7¾ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | 5¾ | |
| LUBRICATE RIG | 1¼ | ¼ | ¼ |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | ¾ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 7/8 |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | 2939 |
| TON MI. OR TRIPS SINCE LAST CUT | 319 |
| CUMULATIVE TON MI. OR TRIPS | 4354 |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4334.41 FT. |
| | SINGLES D.P. | FT. |
| 2 | D.C. 2¼ G4 I.D. | O.D. 474.51 FT. |
| 16 | D.C. I.D. | O.D. FT. |
| 1 | STB. BODY | O.D. 5.70 FT. |
| | STB. BODY | O.D. FT. |
| | RMR. BODY | O.D. FT. |
| 2 | SUBS | O.D. 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 18.43 FT. |
| | TOTAL | 4838.00 FT. |
| WT. OF STRING | 116,000 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 12 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | R61XJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 56293 |
| DEPTH OUT | IN |
| DEPTH IN | 4776 |
| TOTAL FTG. | 62 |
| TOTAL HR. RUN | 25 |
| COND. OF BIT | GRINDING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10⁰⁰ | 3⁰⁰ | 6⁰⁰ |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 136 | 131 | 133 |
| W.L.-C.C. | 4.0 | 4.0 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Sink | 1 gal. | | |

DRILLER: Lee Ledoux

FOOTAGE

| FROM | TO | DR. RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4816 | 4838 | 22 | | | 38 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12⁰⁰ | 12¹⁵ | ¼ | SER. RIG & CHECK BOPS. & MAJOR SHUT OFFS |
| 12¹⁵ | 8⁰⁰ | 19¾ | DRILL |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4334.41 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. I.D. | O.D. 474.51 FT. |
| 1 | STB. BODY | O.D. 5.70 FT. |
| | STB. BODY | O.D. FT. |
| | RMR. BODY | O.D. FT. |
| 2 | SUBS | O.D. 4.95 FT. |
| | BIT OR C.B. | FT. |
| | KELLY DOWN | 22.00 FT. |
| | TOTAL | 4842 FT. |
| WT. OF STRING | 116,000 | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 12 | 13 |
| SIZE | 8¾ | 8¾ |
| MFG. | HW | HW |
| TYPE | R61XJ | R62BX |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 12 | 12 |
| SER. NO. | SB293 | ZL998 |
| DEPTH OUT | 4842 | 4842 |
| DEPTH IN | 4776 | 4842 |
| TOTAL FTG. | 66 | 0 |
| TOTAL HR. RUN | 26½ | 1½ |
| COND. OF BIT | 3-1-0 | NEW |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10:00 | T 8:00 | |
| WEIGHT | 9.3 | R 9.2 | |
| VISC.-SEC | 130 | 134 | |
| W.L.-C.C. | 4.0 | 1 4.0 | |
| FLTR. CK. | 2/32 | P 2/32 | |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal. | | |

DRILLER: Brian Sadoway

FOOTAGE

| FROM | TO | DR. RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4838 | 4842 | D | | | 82 | 5 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: 4842 — ¼

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SERVICE + CHECK B.O.P.s |
| 8:15 | 9:45 | 1½ | DRILL 8¾ HOLE |
| 9:45 | 10:00 | ¼ | SURVEY at 4842 - 1¾° |
| 10:00 | 12:00 | 2 | HOIST BIT # 12 |
| 12:00 | 1:45 | 1¾ | RUN IN WITH BIT #13 |
| 1:45 | 2:30 | ¾ | BREAK CIR. + REAM 7 FEET UNDER GUAGE HOLE |
| 2:30 | 4:00 | 1½ | DRILL 8¾ HOLE |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4334.41 FT. |
| | SINGLES D.P. | FT. |
| 2 | D.C. 2¼ G4 I.D. | O.D. 474.51 FT. |
| 16 | D.C. I.D. | O.D. FT. |
| 1 | STB. BODY | O.D. 5.70 FT. |
| | STB. BODY | O.D. FT. |
| | RMR. BODY | O.D. FT. |
| 2 | SUBS | O.D. 4.93 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 36.93 FT. |
| | TOTAL | 4856.00 FT. |
| WT. OF STRING | 116,000 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 13 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | R62BX-J |
| NOZZLE NO. | 5 |
| NOZZLE SIZE | 12 |
| SER. NO. | ZL998 |
| DEPTH OUT | IN |
| DEPTH IN | 4842 |
| TOTAL FTG. | 14 |
| TOTAL HR. RUN | 9¼ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4⁰⁰ | 7⁰⁰ | 9⁰⁰ |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 130 | 135 | 130 |
| W.L.-C.C. | 4.0 | 4.0 | 3.6 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No-Stick | 1 gal. | | |

DRILLER: Lee Ledoux

FOOTAGE

| FROM | TO | DR. RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4842 | 4856 | 14 | | | 38 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE + CHECK BOPs + BOARD CHECK |
| 4:15 | 12⁰⁰ | 7¾ | DRILL 8¾ HOLE |
| | | | (BOARD CHECK) |

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 27 DATE MARCH 14 1970.

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK LAKE #2

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd. RIG NO. 9

WELL NO. 2 FIELD OR DIST. CORMACK LAKE #2 COUNTY CANADA STATE N.W.T.

DRLG LIC #410.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: W. Driggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

DRILL PIPE STRING: NO. 4½ SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 ¾ | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 2¾ | 7¼ | 7¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¾ | | |
| TRIPS | 4¼ | | |
| LUBRICATE RIG | ¼ | ¼ | ½ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 7/8 |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 4239.98 FT. |
| 1 | SINGLES D.P. | 31.58 FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. 5.70 | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. // | FT. |
| 2 | SUBS XO O.D. 4.95 | FT. |
| | BIT OR C.B. // | FT. |
| | | FT. |
| | KELLY DOWN 19.77 | FT. |
| | TOTAL 4778.5 | FT. |

WT. OF STRING 116 M. LBS.

BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 11 | 12 | |
| SIZE | 8¾ | 8¾ | |
| MFG. | HW | HW | |
| TYPE | X55RJ | RG | |
| NOZZLE NO. | 3 | 3 | 1 |
| NOZZLE SIZE | 12 | 12 | X-5 |
| SER. NO. | 18746 | SB293 | |
| DEPTH OUT | 4776 | 4778 | |
| DEPTH IN | 4729 | 4776 | |
| TOTAL FTG. | 47 | 2 | |
| TOTAL HR. RUN | 17 | 1¾ | |
| COND. OF BIT | 3-1-1 | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12.00 | 1 | 7.00 |
| WEIGHT | 9.2 | R | 9.2 |
| VISC.-SEC | 120 | I | 110 |
| W.L.-C.C. | 3.4 | P | 3.6 |
| FLTR. CK. | 3/32 | | 3/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No-Stick / Cal. | | | |

DRILLER Mark J. Reid

FOOTAGE 7

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4771 | 4778 | T | | | 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig SER. |
| 12.15 | 1.15 | 1 | DRILLING 8¾" HOLE. |
| 1.15 | 2.00 | ¾ | CIRC SAMPLE |
| 2.00 | 4.00 | 2 | HOIST B.T. #11 |
| 4.00 | 6.00 | 2 | RUN IN B.T. #12. |
| 6.00 | 6.15 | ¼ | BREAK CIRC |
| 6.15 | 0.00 | 17¾ | DRILLING |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 4239.98 FT. |
| 1 | SINGLES D.P. | 31.58 FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. 5.70 | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. 4.95 | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN 3928 | FT. |
| | TOTAL 4797 | FT. |

WT. OF STRING 116, M LBS.

BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 12 | | |
| SIZE | 8¾ | | |
| MFG. | HW. | | |
| TYPE | RG1 X-J | | |
| NOZZLE NO. | 3 | | |
| NOZZLE SIZE | 12 | | |
| SER. NO. | SB293 | | |
| DEPTH OUT | IN | | |
| DEPTH IN | 4776 | | |
| TOTAL FTG. | 21 | | |
| TOTAL HR. RUN | 9½ | | |
| COND. OF BIT | DRLG. | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9.00 | 12.00 | 3.00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 133 | 131 | 129 |
| W.L.-C.C. | 4.4 | 4.4 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick / gal. | Soda Ash | 200 # | |
| CMC - | 50 # | | |
| Caustic | 50 # | | |

DRILLER [illegible]

FOOTAGE 19

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4778 | 4797 | 19 | | | 30 | 35 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG & CHECK BOPS. |
| 8.15 | 4.00 | 7¾ | DRILL |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 4239.98 FT. |
| 2 | SINGLES D.P. | 62.88 FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | FT. |
| | STB. BODY O.D. 5.70 | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. 4.95 | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN 28 | FT. |
| | TOTAL 4816 | FT. |

WT. OF STRING 16,000 LBS.

BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 12 | | |
| SIZE | 8¾ | | |
| MFG. | HW | | |
| TYPE | RG1 X-J | | |
| NOZZLE NO. | 3 | | |
| NOZZLE SIZE | 12 | | |
| SER. NO. | SB 293 | | |
| DEPTH OUT | 4816 | | |
| DEPTH IN | 4776 | | |
| TOTAL FTG. | 40 | | |
| TOTAL HR. RUN | 17¼ | | |
| COND. OF BIT | RUNNING | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6.00 | 8:00 | 10:00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 132 | 130 | 128 |
| W.L.-C.C. | 3.8 | 3.8 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.6 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | gal | | |

DRILLER B. Ladouceur

FOOTAGE

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4797 | 4816 | D | 12 | | 34 | 35 | 1000 | 5½ | 58 | | | STRIP - 84 |

(CHECKED FILE EXTRA)

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE + CHECK B.O.P.'s |
| 4:15 | 12:00 | 7¾ | DRILL 8¾" HOLE |

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 26 DATE MARCH. 13TH.

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK. LAKE. #2

DRLG LIC #410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 | FIELD OR DIST. CORMACK LAKE | COUNTY CANADA | STATE N.W.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Griffs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph. Halladay.

DRILL PIPE STRING: NO. 4½ SIZE

TOOL JOINT 6¼ O.D. TYPE THD. X H.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 12 | 7¼ | 1¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | ¼ | |
| TRIPS | 3¼ | ¼ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | 1 | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 7/8

FEET STRIPPED

FEET CUT OFF

PRESENT LENGTH 2959

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS 4190

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 44 | STANDS D.P. | 4147.82 | FT. |
| 2 | SINGLES D.P. | 62.50 | FT. |
| 16 | 2 2/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| 1 | JUNK SUB | 2.10 | FT. |
| | KELLY DOWN | 30.00 | FT. |
| | TOTAL | 4729. | FT. |

WT. OF STRING 116 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 10 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | RG7XJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 43278726 |
| DEPTH OUT | 4729 |
| DEPTH IN | 4705 4729 |
| TOTAL FTG. | 24 |
| TOTAL HR. RUN | 9½ |
| COND. OF BIT | T-1 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 12⁰⁰ | 2.00 |
| WEIGHT | 9.2 | 9.2 |
| VISC.-SEC | 120 | 120 |
| W.L.-C.C. | 3.4 | 3.4 |
| FLTR. CK. | 1/32 | 1/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NOSTICK | 1 GAL. | | |

DRILLER Mantz / Ford

FOOTAGE 14

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4715 | 4729 | 14 | | | 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | R.S SER + CHECK MOTOR SHUT OFFS |
| 12.15 | 4.45 | 4½ | DRILLING 8¾" HOLE |
| 4.45 | 8.00 | 3¼ | TRIP FOR BIT |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 45 | STANDS D.P. | 4239.98 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | 2 2/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| 1 | SUB | 2.10 | FT. |
| | KELLY DOWN | 21.76 | FT. |
| | TOTAL | 4749.00 | FT. |

WT. OF STRING 116 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 11 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55R |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | RR 18726 |
| DEPTH OUT | IN |
| DEPTH IN | 4729 |
| TOTAL FTG. | 20 |
| TOTAL HR. RUN | 7¼ |
| COND. OF BIT | D16 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 1000 | 1100 | 3²⁰ |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 130 | 119 | 114 |
| W.L.-C.C. | 3.8 | 3.8 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| CAUSTIC | 50# | | |
| NO STICK | 1 GAL. | | |
| C.M.C. | 50# | | |

DRILLER L. Linton

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4729 | 4749 | 20 | | | 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8⁰⁰ | 8¹⁵ | ¼ | TRIP |
| 8¹⁵ | 8³⁰ | ¼ | CHECK BOPS SER. R.L. |
| 8³⁰ | 8⁴⁵ | ¼ | WORK JUNK SUB. |
| 8⁴⁵ | 4⁰⁰ | 7¼ | DRILL |

(No Fill)

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 45 | STANDS D.P. | 4239.98 | FT. |
| 1 | SINGLES D.P. | 31.58 | FT. |
| 16 | 2 2/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| 1 | SUB | 2.10 | FT. |
| | KELLY DOWN | 12.00 | FT. |
| | TOTAL | 4771 | FT. |

WT. OF STRING 16,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 11 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55R-S |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | R 18726 |
| DEPTH OUT | 4771 |
| DEPTH IN | 4729 |
| TOTAL FTG. | 42 |
| TOTAL HR. RUN | 15 |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 103 | 106 | 120 |
| W.L.-C.C. | 3.8 | 3.8 | 3.8 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |
| Gel | 100# | | |
| DVG8 | 1 gal | | |

DRILLER Brian Sadowsky

FOOTAGE 22

| FROM | TO | DR-D RM-R CORE-C | BIT CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4749 | 4771 | D | 11 | | 34 | 30 | 1050 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE + CHECK B.O.P.'S |
| 4:15 | 12:00 | 7¾ | DRILL 8¾" HOLE |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. _____ DATE [illegible] 1970

OPERATOR: [illegible] ROANOKE

LEASE: Curry Cormack Lse #2

WELL NO. _____ FIELD OR DIST. [illegible] COUNTY _____ STATE La.

CONTRACTOR: **JENNINGS DRILLING COMPANY, LTD.**

RIG NO. 2

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: _____

| DRILL PIPE STRING NO. | DRILL PIPE STRING SIZE | TOOL JOINT O.D. | TYPE THD. |
|---|---|---|---|
| | | | |

| PUMPS NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

| LAST CASING TUBING OR LINER | SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | FT. |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

| BIT RECORD | | |
|---|---|---|
| BIT NO. | | |
| SIZE | | |
| MFG. | | |
| TYPE | | |
| NOZZLE NO. | | |
| NOZZLE SIZE | | |
| SER. NO. | | |
| DEPTH OUT | | |
| DEPTH IN | | |
| TOTAL FTG. | | |
| TOTAL HR. RUN | | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | | |
|---|---|---|---|---|
| TIME | | | | |
| WEIGHT | | | | |
| VISC.-SEC | | | | |
| W.L.-C.C. | | | | |
| FLTR. CK. | | | | |
| PH | | | | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |
| MUD & CHEMICALS ADDED | | | | |
| TYPE | AMT. | TYPE | AMT. | |
| | | | | |
| | | | | |
| DRILLER | [illegible] | | | |

| FOOTAGE FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | FT. |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

| BIT RECORD | | |
|---|---|---|
| BIT NO. | | |
| SIZE | | |
| MFG. | | |
| TYPE | | |
| NOZZLE NO. | | |
| NOZZLE SIZE | | |
| SER. NO. | | |
| DEPTH OUT | | |
| DEPTH IN | | |
| TOTAL FTG. | | |
| TOTAL HR. RUN | | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | | |
|---|---|---|---|---|
| TIME | | | | |
| WEIGHT | | | | |
| VISC.-SEC | | | | |
| W.L.-C.C. | | | | |
| FLTR. CK. | | | | |
| PH | | | | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |
| MUD & CHEMICALS ADDED | | | | |
| TYPE | AMT. | TYPE | AMT. | |
| | | | | |
| | | | | |
| DRILLER | [illegible] | | | |

| FOOTAGE FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:00 | 12 | Rigging up at new location |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | FT. |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

| BIT RECORD | | |
|---|---|---|
| BIT NO. | | |
| SIZE | | |
| MFG. | | |
| TYPE | | |
| NOZZLE NO. | | |
| NOZZLE SIZE | | |
| SER. NO. | | |
| DEPTH OUT | | |
| DEPTH IN | | |
| TOTAL FTG. | | |
| TOTAL HR. RUN | | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | | |
|---|---|---|---|---|
| TIME | | | | |
| WEIGHT | | | | |
| VISC.-SEC | | | | |
| W.L.-C.C. | | | | |
| FLTR. CK | | | | |
| PH | | | | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |
| MUD & CHEMICALS ADDED | | | | |
| TYPE | AMT. | TYPE | AMT. | |
| | | | | |
| | | | | |
| DRILLER | Brian Jadmore | | | |

| FOOTAGE FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 8:00 | 12 | Load out drill pipe & spot rig building |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

APPROVED — APPROVED

**A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM**

# DAILY DRILLING REPORT

REPORT NO. _____ DATE 12/10/70

OPERATOR: Sinclair Oil & Gas Co.

LEASE: Lovell Unit No. 1

WELL NO. _____ FIELD OR DIST. _____ COUNTY _____ STATE _____

CONTRACTOR: **JENNINGS DRILLING COMPANY, LTD.**

RIG NO. 9

DRILL PIPE STRING: NO. _____ SIZE _____ TOOL JOINT O.D. _____ TYPE THD. _____

SIGNATURE OF OPERATOR'S REPRESENTATIVE _____

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Hartsfield

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | 9 | 7 | 15 |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| | |
| | |
| | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL.TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER _____

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8 | 5 | 9 | Rig up NR |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL.TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER _____

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 7:00 | 12:00 | 16 | Rig up NR |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL.TR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |

DRILLER _____

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 11:00 | 9 | Rig up NR |

APPROVED APPROVED

**A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM**

# DAILY DRILLING REPORT

REPORT NO. 1 DATE Feb. 15

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SKURRY RAINBOW | CORMACK LAKE #2 | 2 | LAT 61°04'37.95"N LONG 122°03'33.12"W | EL | N.W.T. |

| CONTRACTOR | RIG NO. | DRILL PIPE STRING NO. | DRILL PIPE STRING SIZE | TOOL JOINT O.D. | TYPE THD. |
|---|---|---|---|---|---|
| Jennings International Drilling<br>A Division of Western Electronics & Engineering Ltd. | NONE | | 4½ | 6¼ | X.H. |

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Dietz

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | D500 | 16 |
| 2. | EMSCO | D500 | 16 |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | 7½ | | 3 |
| DRILLING ACTUAL | | | 2 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | 6 |
| TRIPS | | | |
| LUBRICATE RIG | ½ | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | | 16 |

### TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/O | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| | |
| | |
| | |
| | |
| TOTAL DAY WORK | |

### WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES / SIZE | |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| | STANDS D.P. | FT. | BIT NO. | |
| | SINGLES D.P. | FT. | SIZE | |
| | D.C. I.D. O.D. | FT. | MFG. | |
| | D.C. I.D. O.D. | FT. | TYPE | |
| | STB. BODY O.D. | FT. | NOZZLE NO. | |
| | STB. BODY O.D. | FT. | NOZZLE SIZE | |
| | RMR. BODY O.D. | FT. | SER. NO. | |
| | SUBS O.D. | FT. | DEPTH OUT | |
| | BIT OR C.B. | FT. | DEPTH IN | |
| | | FT. | TOTAL FTG. | |
| | KELLY DOWN | FT. | TOTAL HR. RUN | |
| | TOTAL | FT. | COND. OF BIT | |
| WT. OF STRING | | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Maurice Kent

**FOOTAGE**

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR.EL-P COMP.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig SEP. |
| 12.15 | 5.00 | 1¾ | Rig Up. |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| | STANDS D.P. | FT. | BIT NO. | |
| | SINGLES D.P. | FT. | SIZE | |
| | D.C. I.D. O.D. | FT. | MFG. | |
| | D.C. I.D. O.D. | FT. | TYPE | |
| | STB. BODY O.D. | FT. | NOZZLE NO. | |
| | STB. BODY O.D. | FT. | NOZZLE SIZE | |
| | RMR. BODY O.D. | FT. | SER. NO. | |
| | SUBS O.D. | FT. | DEPTH OUT | |
| | BIT OR C.B. | FT. | DEPTH IN | |
| | | FT. | TOTAL FTG. | |
| | KELLY DOWN | FT. | TOTAL HR. RUN | |
| | TOTAL | FT. | COND. OF BIT | |
| WT. OF STRING | | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L. Pinksen

**FOOTAGE**

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR.EL-P COMP.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 4.00 | 8 | RIGGING UP |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| | STANDS D.P. | FT. | BIT NO. | 1A |
| | SINGLES D.P. | FT. | SIZE | 8¾ |
| 1 | D.C. I.D. 8¾ O.D. | 2830 FT. | MFG. | HW |
| | D.C. I.D. O.D. | FT. | TYPE | FDJA |
| | STB. BODY O.D. | FT. | NOZZLE NO. | 3 |
| | STB. BODY O.D. | FT. | NOZZLE SIZE | 12 |
| | RMR. BODY O.D. | FT. | SER. NO. | 19936 |
| 2 | SUBS O.D. | 2.45 FT. | DEPTH OUT | |
| | BIT OR C.B. | FT. | DEPTH IN | 0 |
| | | FT. | TOTAL FTG. | |
| | KELLY DOWN | FT. | TOTAL HR. RUN | |
| | TOTAL | FT. | COND. OF BIT | |
| WT. OF STRING | | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Maurice Kent

**FOOTAGE**

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR.EL-P COMP.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 6.00 | 2 | RIGGING UP TO SPUD |
| 6.00 | 12.00 | 6 | MIX MUD |

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 1 DATE FEB 11 '78

OPERATOR: SCURRY RAINBOW

LEASE: LAT 61° 47' 21.78" N, LONG 122° 02' 33.12" W. CHINCHAGA LAKE #2.

DEV. LIC. # 410

WELL NO. 2 FIELD OR DIST. CHINCHAGA LAKE COUNTY N.T. STATE

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd.

RIG NO. NINE

DRILL PIPE STRING NO. 4 SIZE 4½ TOOL JOINT O.D. 6¼ TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Rud Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | D500 | 16 |
| 2 | EMSCO | D500 | 16 |
| 3 | | | |

LAST CASING / TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION - HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 6 | 7 | 6 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | ¾ |
| TRIPS | | | 1 |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | 1 | ¾ | 1 |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | ½ | | |
| FISHING | | | |
| A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

COMPLETION TOUR

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/O

HRS. W/O/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/4"

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING

DAY TOUR

## DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| | STANDS D.P. | | FT. |
| | SINGLES D.P. | | FT. |
| 4 | D.C. 6¼ I.D. | O.D. | 115.16 FT. |
| 1 | I.D. | O.D. | 25.32 FT. |
| | STB. BODY | O.D. | FT. |
| | STB. BODY | O.D. | FT. |
| | RMR. BODY | O.D. | FT. |
| 1 | SUBS | O.D. | 2.95 FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | | 41.20 FT. |
| | TOTAL | | 190. FT. |

WT. OF STRING 30M LBS.

## BIT RECORD

| | |
|---|---|
| BIT NO. | 1 RR |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 15370 |
| DEPTH OUT | 190 |
| DEPTH IN | 0 |
| TOTAL FTG. | 190 |
| TOTAL HR. RUN | 6 |
| COND. OF BIT | Running |
| REAMER NO. | |
| REAMER TYPE | |

## MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12.00 | 2.00 | 6.00 |
| WEIGHT | 8.4 | 8.4 | 8.4 |
| VISC.-SEC | 75 | 100 | 75 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | Basic | 16 T |
| | | Gel | 4 T |
| | | Tic | |

DRILLER: Mack / Rod

## FOOTAGE

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 190 | 190 | | Spudded 2/11/78 1200 hrs | 160 | 15M | 400 | 7" | 12 | | | |

## DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 102. | 0° | (1-1) | 161 | ¼° | | | | |

## TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig up |
| 12.15 | 1.00 | ¾ | Thaw out floor |
| 1.00 | 4.45 | 3¾ | Spud in + Drilling 8¾" hole |
| 4.45 | 5.00 | ¼ | Survey at 102 at ¼° |
| 5.00 | 6.15 | 1¼ | Drilling 8¾" hole |
| 6.15 | 7.00 | ¾ | Survey + one mile run |
| 7.00 | 8.00 | 1 | Drilling 8¾" hole |

## DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| | STANDS D.P. | | FT. |
| 2 | SINGLES D.P. | 61.79 | FT. |
| 9 | D.C. 2¼ I.D. 6¼ O.D. | 266.65 | FT. |
| 1 | D.C. 8¾ I.D. O.D. | 28.30 | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 2.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 20.31 | FT. |
| | TOTAL | 380.00 | FT. |

WT. OF STRING 38,000 LBS.

## BIT RECORD

| | |
|---|---|
| BIT NO. | 1 RR |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 15370 |
| DEPTH OUT | 1N |
| DEPTH IN | 0 |
| TOTAL FTG. | 380 |
| TOTAL HR. RUN | 13 |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

## MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10.00 | 12.00 | 2.00 |
| WEIGHT | 8.4 | 8.5 | 8.5 |
| VISC.-SEC | 71 | 69 | 93 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Gel | 600 | | |

DRILLER: L. Cook

## FOOTAGE

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 190 | 380 | 190 | | Gravel | 160 | 10M | 550 | 7" | 12 | | | |

## DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 210 | ¼° | | 270 | ½° | | 330 | ¾° | |

## TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | See Rig |
| 8.15 | 9.00 | ¾ | Drill |
| 9.00 | 9.15 | ¼ | Survey @ 210' - ¼° |
| 9.15 | 10.45 | 1½ | Drill |
| 10.45 | 11.00 | ¼ | Survey @ 270' - ½° |
| 11.00 | 1.15 | 2¼ | Drill w/ 2000 wt. |
| 1.15 | 1.30 | ¼ | Survey @ 330' - ¾° |
| 1.30 | 4.00 | 2½ | Drill w/ 2000 wt. |

## DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 10 | STANDS D.P. | 313.39 | FT. |
| 1 | SINGLES D.P. | 31.64 | FT. |
| 9 | D.C. 2¼ I.D. 6¼ O.D. | 266.65 | FT. |
| 2 | D.C. 8¼ I.D. O.D. | 28.30 | FT. |
| | STB. BODY O.D. | | FT. |
| 1 | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 2.95 | FT. |
| 1 | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41.20 | FT. |
| | TOTAL | 380.00 | FT. |

WT. OF STRING 35M LBS.

## BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 1A RR | 2-A |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | X3A | X3AJ |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 20 | 20 |
| SER. NO. | 15370 | 14936 |
| DEPTH OUT | 381 | |
| DEPTH IN | 0 | |
| TOTAL FTG. | 381 | |
| TOTAL HR. RUN | 13¼ | 5¾ |
| COND. OF BIT | 6-3-1 | |
| REAMER NO. | | |
| REAMER TYPE | | |

## MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4.00 | 6.00 | 12.00 |
| WEIGHT | 8.5 | 8.5 | 8.5 |
| VISC.-SEC | 94 | 80 | 90 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Gel | 100 | | |
| Lignosol | 50 | | |
| H2O | 5 T | | |

DRILLER: Mack / Rod

## FOOTAGE

| FROM | TO | DR. RM. CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 380 | 390 | 10 | | | 160 | 5 | 525 | 7" | 62 | | | |

## DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 390 | 1° | | | | | | | |

## TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | See Rig |
| 4.15 | 4.30 | ¼ | Drill |
| 4.30 | 5.30 | ¾ | Trip |
| 5.30 | 6.15 | 1 | Drill |
| 6.15 | 6.30 | ¼ | Survey @ 390' - 1° |
| 6.30 | 9.45 | 3½ | Drill |
| 9.45 | 12.00 | 2¼ | Drill |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 2 DATE FEB 17

OPERATOR: SCURRY. RAINBOW.

LEASE: CORMACK LK #2.

DRLG LIC # 410

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY NWT STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. NINE

DRILL PIPE STRING NO. 4 SIZE 4½ TYPE THD. X H TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | D 500 | 16 |
| 2. | EMSCO | D500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 6 | 5¾ | 6¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | 1¾ | 1¼ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¼ | ½ | ¼ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | 1¼ | 2¼ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1¼

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 2 | STANDS D.P. | 189.07 FT. |
| | SINGLES D.P. | FT. |
| 9 | D.C. 2 7/16 I.D. 6¼ O.D. | 266.65 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 2.45 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | [illegible] FT. |
| | TOTAL 4 | 511.00 FT. |

WT. OF STRING 40[illegible] LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2A. |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 19936 |
| DEPTH OUT | 511 |
| DEPTH IN | 0 |
| TOTAL FTG. | 511 |
| TOTAL HR. RUN | 17¾ |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12.00 | 4.00 | |
| WEIGHT | 9.0 | 1[illegible] | |
| VISC.-SEC | 75 | 79 | |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER [illegible]

### FOOTAGE

| FROM | TO | DR'D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 450 | 511 | C-1 | | | | 16 | 8[illegible] | 7" | 62 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 463 | 1° | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER. |
| 12.15 | 1.00 | ¾ | DRILLED F/ 463 T/ 511 |
| 1.00 | 1.15 | ¼ | SURVEY |
| 1.15 | 2.30 | 1¼ | HOIST F/ REC. & TALLY |
| 2.30 | 2.45 | ¼ | BRIAN CIRC. |
| 2.45 | 8.00 | 5¼ | DRILL F/ 511 T/ [illegible] |
| | | 20 | |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 3 | STANDS D.P. | 281.06 FT. |
| | SINGLES D.P. | FT. |
| 9 | D.C. 2 7/16 I.D. 6¼ O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.74 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 9.55 FT. |
| | TOTAL | 562.00 FT. |

WT. OF STRING 38[illegible] LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2A |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3AJ |
| NOZZLE NO. | 13 |
| NOZZLE SIZE | 20 |
| SER. NO. | 19936 |
| DEPTH OUT | [illegible]N |
| DEPTH IN | 381 |
| TOTAL FTG. | 181 |
| TOTAL HR. RUN | 17½ |
| COND. OF BIT | DALG |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 8.00 | 12.00 | 2.00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 77 | 95 | 73 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 2000 | | |

DRILLER Ken Pinchin

### FOOTAGE

| FROM | TO | DR'D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 511 | 562 | 51 | | GRAVEL | 170 | 5½ | 600 | 7" | 62 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 520 | 1½° | | 550 | 1¼° | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG. |
| 8.15 | 9.15 | 1 | DRILL |
| 9.15 | 9.30 | ¼ | SURVEY @ 520' 1½° |
| 9.30 | 10.30 | 1 | DRILL |
| 10.30 | 11.45 | 1¼ | TRIP F/ SHOE SQUEEZE D.C. IN DERRICK |
| 11.45 | 3.30 | 3¾ | DRILL WT. 2,000 |
| 3.30 | 3.45 | ¼ | SURVEY @ 550' - 1¼° |
| 3.45 | 4.00 | ¼ | WELD ON CONDUCTOR BBLS. |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 3 | STANDS D.P. | 281.02 FT. |
| 1 | SINGLES D.P. | 31.38 FT. |
| 9 | D.C. 2 7/16 I.D. 6¼ O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.74 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 21.00 FT. |
| | TOTAL | 605 FT. |

WT. OF STRING 38[illegible] LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2A |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 19936 |
| DEPTH OUT | |
| DEPTH IN | 381 |
| TOTAL FTG. | 224 |
| TOTAL HR. RUN | 24¼ |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 5.00 | 7.00 | 10.00 |
| WEIGHT | 9.3 | 9.4 | 9.2 |
| VISC.-SEC | 70 | 100 | 75 |
| W.L.-C.C. | | | |
| FLTR. CK | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 3000 | | |
| SAWDUST | 10SK | | |
| H2O | 15[illegible] | | |

DRILLER [illegible]

### FOOTAGE

| FROM | TO | DR'D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 562 | 605 | 43 | | | 1[illegible] | 5 | 1[illegible] | 1" | 1[illegible]2 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 593 | 1.5° | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | 1¼ | SER. RIG. |
| 4.15 | 5.00 | ¾ | WELD ON CONDUCTOR BBLS. |
| 5.00 | 9.00 | 4 | DRILL |
| 9.00 | 9.15 | ¼ | SURVEY AT 593 |
| 1.15 | 12.00 | 2¾ | DRILLING F/ [illegible] |

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 3 DATE FEB 18TH 1970.

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE #2

WELL NO. 2 FIELD OR DIST. CORMACK LAKE

COUNTY CANADA STATE ALBERTA

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 6

DRILL PIPE STRING NO. 4½ SIZE

TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lee Arup

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | D500 | 16 |
| 2 | EMSCO | D500 | 16 |
| 3 | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7 | 7¼ | 4¼ |
| REAMING | | | 3 |
| CONDITIONING MUD & CIRCULATING | | | 2 |
| TRIPS | | | 1 |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¼ | ¼ | ¼ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | ¾ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8.8 | 8 | 7 |

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 7/16

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 4 | STANDS D.P. | 375.7 FT. |
| | SINGLES D.P. | FT. |
| 9 | D.C. 2¼ 6¼ I.D. O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | PMR. BODY O.D. | FT. |
| 2 | SUBS | 4.74 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 688 FT. |

WT. OF STRING 40 M LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2A |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 14926 |
| DEPTH OUT | |
| DEPTH IN | 381 |
| TOTAL FTG. | 307 |
| TOTAL HR. RUN | 31¼ |
| COND. OF BIT | DULL |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FL.TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | 2000 | | |

DRILLER Maurice Read

### FOOTAGE

| FROM | TO | DR. RM. CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 605 | 688 | 83 | | | 110 | 6" | 700 | 7" | 72 | | | |

DEVIATION RECORD: DEPTH 624 DEV. 1¼ DIRECTION | DEPTH 657 DEV. 1° DIRECTION | DEPTH 688 DEV. 1° DIRECTION

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | RIG SERV |
| 12:15 | 1:45 | 1½ | DRILLING 8¾" HOLE |
| 1:45 | 2:00 | ¼ | SURVEY AT 624 |
| 2:00 | 4:00 | 2 | DRILLING 8¾" HOLE |
| 4:00 | 4:15 | ¼ | SURVEY AT 657 |
| 4:15 | 7:30 | 3¼ | DRILLING 8¾" HOLE |
| 7:30 | 7:45 | ¼ | SURVEY AT 688 |
| 7:45 | 8:00 | ¼ | DRILLING |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 5 | STANDS D.P. | 470.25 FT. |
| | SINGLES D.P. | FT. |
| 9 | D.C. 3 2¼ 6¼ I.D. O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.74 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 36.36 FT. |
| | TOTAL | 778.00 FT. |

WT. OF STRING 40 M LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2A |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 20 |
| SER. NO. | 19936 |
| DEPTH OUT | |
| DEPTH IN | 381 |
| TOTAL FTG. | 397 |
| TOTAL HR. RUN | 38½ |
| COND. OF BIT | DULL |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 11:00 | 2:00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 79 | 83 | 90 |
| W.L.-C.C. | | | |
| FL.TR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Gel. | 1400# | | |

DRILLER Leon Pinchuk

### FOOTAGE

| FROM | TO | DR. RM. CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 688 | 778 | 90 | | | 170 | S/M | 700 | 7" | 72 | | | |

DEVIATION RECORD: DEPTH 710 DEV. 1° DIRECTION | DEPTH 740 DEV. 1° DIRECTION | DEPTH DEV. DIRECTION

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG |
| 8:15 | 10:15 | 2 | DRILL |
| 10:15 | 10:30 | ¼ | SURVEY @ 710' - 1° |
| 10:30 | 12:30 | 2 | DRILL |
| 12:30 | 12:45 | ¼ | SURVEY @ 740' - 1° |
| 12:45 | 4:00 | 3¼ | DRILL |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| 4 | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | D.C. I.D. O.D. | 33.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 3 | SUBS O.D. | 9.91 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| 1 | KELLY DOWN | 41.07 FT. |
| | TOTAL | 84.21 FT. |

WT. OF STRING LBS.

### BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2A | |
| SIZE | 8¾ | 15" |
| MFG. | H.W. | REED |
| TYPE | X3A | |
| NOZZLE NO. | 7 | |
| NOZZLE SIZE | 20 | |
| SER. NO. | 19936 | |
| DEPTH OUT | 746 | |
| DEPTH IN | 381 | |
| TOTAL FTG. | 365 | |
| TOTAL HR. RUN | 40¼ | 2. |
| COND. OF BIT | 4-2-I | |
| REAMER NO. | | |
| REAMER TYPE | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 5:00 | | |
| WEIGHT | 9.2 | | |
| VISC.-SEC | 87 | | |
| W.L.-C.C. | | | |
| FL.TR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 600# | | |
| CAUSTIC | 50# | | |

DRILLER

### FOOTAGE

| FROM | TO | DR. RM. CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 778 | 746 | | | | 170 | S/M | 700 | 7" | 72 | | | |
| | 53 | 53 | | | | | | | | | | |

DEVIATION RECORD: DEPTH 790 DEV. 1° DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | SER. RIG — DRILL STRING |
| 4:15 | 6:00 | 1¾ | DRILL — STRAP OUT 746.27 |
| 6:00 | 6:15 | ¼ | SURVEY @ 790' - 1° — BOARD 790.00 |
| 6:15 | 7:15 | 1 | TRIP — DIFF .22 |
| 7:15 | 8:00 | ¾ | PICK UP REAMER EQUIP. — NO CORRECTIONS |
| 8:00 | 10:00 | 2 | (CAN'T FIND) |
| 10:00 | 11:00 | 2 | REMOVE 15" REAMER |

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 4 DATE FEB. 13TH 1970.

OPERATOR: SCURRY RAINBOW

LEASE: CONOCO HK #2

WELL NO. 2 FIELD OR DIST. HOBBS COUNTY LEA STATE N.M.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. INFINITE

DRILL PIPE STRING NO. 4 SIZE 4½ TOOL JOINT 6¼ O.D. TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DAKOC | 11 |
| 2. | EMSCO | DAKOC | 11 |
| 3. | | | |

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Bill Gray

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

LAST CASING-TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | 7 | 7½ | 4½ |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | 2 |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ¼ | 1¼ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | 48 | |

TIME SUMMARY (OFFICE USE ONLY)

| | | |
|---|---|---|
| DAY WORK | | |
| HRS. W/DP | | |
| HRS. WO/DP | | |
| HRS. STANDBY | | |
| TOTAL DAY WORK | | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| 2. | SINGLES D.P. | 62.15 FT. |
| 9 | D.C. 2 7/16 I.D. 6¼ O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 3 | SUBS O.D. | 2.96 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 32.00 FT. |
| | TOTAL | 355. FT. |
| WT. OF STRING | | LBS. |

BIT RECORD — RMK

| | | | |
|---|---|---|---|
| BIT NO. | 3A | 5⅞ X15 | |
| SIZE | | | |
| MFG. | | REED | |
| TYPE | | | |
| NOZZLE NO. | | | |
| NOZZLE SIZE | | | |
| SER. NO. | | P3117 | |
| DEPTH OUT | | 354 | |
| DEPTH IN | | 0 | |
| TOTAL FTG. | | 354 | |
| TOTAL HR. RUN | | 9 | |
| COND. OF BIT | | 0.3 | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12 | 4 | 6 |
| WEIGHT | | 1. | 1 |
| VISC.-SEC | | 9. | 7 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | 50# | | |

DRILLER: Ralph Halladay

FOOTAGE

| FROM | TO | DR'D RKB CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53 | 355 | 275 | | | 110 | 2 | 250 | 7" | 62 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 134 | ¾ | | 223 | ¾° | | 311 | ¼° | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | RIG SERV. |
| 12:15 | 1:00 | ¾ | REAMING 15" HOLE |
| 1:00 | 1:15 | ¼ | SURVEY AT 174 AT ½° |
| 1:15 | 3:45 | 2½ | REAMING 15" HOLE |
| 3:45 | 4:00 | ¼ | SURVEY AT 220 AT ¾° |
| 4:00 | 5:30 | 1½ | REAMING 14¾" HOLE |
| 5:30 | 5:45 | ¼ | SURVEY AT 311 AT ¼° |
| 5:45 | 8:00 | 2¼ | REAMING 15" HOLE |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 1. | STANDS D.P. | 9380 FT. |
| 1 | SINGLES D.P. | 31.30 FT. |
| 9 | D.C. 2 7/16 I.D. 6¼ O.D. | 266.65 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | RMR. BODY O.D. | 3.25 FT. |
| 2 | SUBS O.D. | 4.82 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 28.48 FT. |
| | TOTAL | 428.00 FT. |
| WT. OF STRING | 36,000 | LBS. |

BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | RR-Reamer | 3A | 4 |
| SIZE | 8¾ | 15 | 15 |
| MFG. | Reed | Reed | Reed |
| TYPE | OPEN | OPEN | OPEN |
| NOZZLE NO. | | | |
| NOZZLE SIZE | | | |
| SER. NO. | P117 | | |
| DEPTH OUT | | | |
| DEPTH IN | 0 | | |
| TOTAL FTG. | 428 | | |
| TOTAL HR. RUN | 16¼ | | |
| COND. OF BIT | Reaming | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 12:00 | 3:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 77 | 70 | 76 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DR'D RKB CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 358 | 428 | 70 | | | 170 | 20 | 300 | 7" | 62 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 400 | ½ | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 6:00 | 6:15 | ¼ | SER. RIG |
| 6:15 | 2:00 | 5¾ | REAMING 8¾ TO 15" HOLE |
| 2:00 | 2:15 | ¼ | SURVEY @ 400' - ½° |
| 2:15 | 2:30 | ¼ | LAY DOWN WORKING SINGLES RUN IN STAND |
| 2:30 | 4:00 | 1½ | REAMING |

[illegible] picked up [illegible] tubing

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 1 | STANDS D.P. | FT. |
| | SINGLES D.P. | 31.5 FT. |
| 15 | D.C. 8 1/16 I.D. 6¼ O.D. | 445.73 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | RMR. BODY O.D. | 3.25 FT. |
| 2 | SUBS O.D. | 4.82 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 15.00 FT. |
| | TOTAL | 500 FT. |
| WT. OF STRING | 40 | LBS. |

BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | RR-Reamer | 3A | 4 |
| SIZE | 8¾ x 15" | 6¾ x 15" | 15" |
| MFG. | Reed | Reed | |
| TYPE | OPEN | 3J | |
| NOZZLE NO. | | 20 | |
| NOZZLE SIZE | | | |
| SER. NO. | P117 | 190665 | |
| DEPTH OUT | 440 | | |
| DEPTH IN | 0 | 440 | |
| TOTAL FTG. | 440 | 60 | |
| TOTAL HR. RUN | 17½ | 3½ | |
| COND. OF BIT | Drill | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 5:00 | | |
| WEIGHT | 60 | | |
| VISC.-SEC | 9.1 | | |
| W.L.-C.C. | | | |
| FLTR. CK | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 200# | | |

DRILLER:

FOOTAGE

| FROM | TO | DR'D RKB CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 428 | 500 | 72 | | | 170 | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | SER. RIG. |
| 4:15 | 5:30 | 1¼ | REAMING |
| 5:30 | 7:30 | 2 | TRIP - CHANGE REAMERS & PILOT BIT |
| 7:30 | 8:45 | 1¼ | PICK UP DRILL COLLARS |
| 8:45 | 12 | 3¼ | REAMING 15" HOLE |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 5 DATE FEB 20 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE #2

WELL NO. 2 FIELD OR DIST. CORMACK LAKE DRL. LIC. # 410

COUNTY NWT STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Phipps

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Hathaway

DRILL PIPE STRING: NO. 4½ SIZE; TOOL JOINT 6¼ O.D. TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | D500 | 16 |
| 2. | EMSCO | D500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | ¼ | 7¼ | 1¼ |
| CONDITIONING MUD & CIRCULATING | | | 1½ |
| TRIPS | | | 3¼ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¼ | ½ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | 3¼ |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 14

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 1 | STANDS D.P. | 9 411 FT. |
| 2 | SINGLES D.P. | 63.13 FT. |
| | D.C. I.D. O.D. | FT. |
| 15 | D.C. 2¼ I.D. 6¼ O.D. | 445.73 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | RMR. BODY O.D. | 3.25 FT. |
| 2 | SUBS O.D. | 4.62 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 39.00 FT. |
| | TOTAL | 1121 FT. |
| WT. OF STRING | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 4A |
| SIZE | 9⅞ x 15 |
| MFG. | REED |
| TYPE | OSC |
| NOZZLE NO. | 3-BN |
| NOZZLE SIZE | 12-12-12 |
| SER. NO. | 47 |
| DEPTH OUT | 631 |
| DEPTH IN | 440 |
| TOTAL FTG. | 191 |
| TOTAL HR. RUN | 14½ |
| COND. OF BIT | CONE WEAR |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12:00 | | |
| WEIGHT | 9 | N | A |
| VISC.-SEC | 1 | 1 | 1 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 900 | | |

DRILLER Mr. N. Pain

### FOOTAGE

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 631 | 631 | | | 160 | 20 | 1100 | | | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 538 | 1½ | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 | 12:15 | ¼ | RIG SER |
| 12:15 | 2:30 | 2¼ | REAMING 15" HOLE |
| 2:30 | 2:45 | ¼ | SURVEY AT 538 AT 1½° |
| 2:45 | 5:00 | 2¼ | REAMING 15" HOLE |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 3 | STANDS D.P. | 283.69 FT. |
| | SINGLES D.P. | FT. |
| 15 | D.C. 2 2/16 I.D. 6¼ O.D. | 445.73 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STR. BODY O.D. | FT. |
| 1 | RMR. BODY O.D. | 3.25 FT. |
| 2 | SUBS O.D. | 4.62 FT. |
| | BIT OR C.B. | FT. |
| | KELLY DOWN | 39.00 FT. |
| | TOTAL | 775 FT. |
| WT. OF STRING | 48,000 | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | REAMER 4A |
| SIZE | 8¾ x 15" |
| MFG. | REED |
| TYPE | |
| NOZZLE NO. | 3-20 |
| NOZZLE SIZE | |
| SER. NO. | 190065 |
| DEPTH OUT | |
| DEPTH IN | 440 |
| TOTAL FTG. | 335 |
| TOTAL HR. RUN | 16 |
| COND. OF BIT | R |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 12:00 | 3:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 77 | 76 | 74 |
| W.L.-C.C. | | | |
| FLTR. CK. | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Ken Reid

### FOOTAGE

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 631 | 775 | 144 | | | 160 | 25 | 1200 | 7" | 62 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 650 | 1½° | | 750 | 1° | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 6:00 | 8:15 | ¼ | SER. RIG. |
| 8:15 | 8:30 | ¼ | REAMING 8¾ TO 15" HOLE |
| 8:30 | 8:45 | ¼ | SURVEY @ 650' - 1½° |
| 8:45 | 1:45 | 5 | REAMING |
| 1:45 | 2:00 | ¼ | SURVEY @ 750' - 1° |
| 2:00 | 4:00 | 2 | REAMING |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 3 | STANDS D.P. | 283.69 FT. |
| 1 | SINGLES D.P. | 31.59 FT. |
| 5 | D.C. 2 2/16 I.D. 6¼ O.D. | 146.73 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STR. BODY O.D. | FT. |
| 2 | RMR. BODY O.D. | 4.11 FT. |
| | SUBS O.D. | 7.82 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 39.00 FT. |
| | TOTAL | 769 FT. |
| WT. OF STRING | 48,000 @ | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | REAMER 4A |
| SIZE | 15" |
| MFG. | REED |
| TYPE | |
| NOZZLE NO. | 3-20 |
| NOZZLE SIZE | |
| SER. NO. | 190065 |
| DEPTH OUT | 775 |
| DEPTH IN | 440 |
| TOTAL FTG. | 336 |
| TOTAL HR. RUN | 15½ |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:30 | 10:00 |
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 95 | 87 | 102 |
| W.L.-C.C. | | | |
| FLTR. CK | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 1000 LBS | | |

DRILLER Norm Young

### FOOTAGE 21

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 775 | 796 | | | | 140 | 2 | 1100 | 7 | 61 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE |
| 4:15 | 5:30 | 1¼ | REAMING OUT HOLE TO 15" |
| 5:30 | 6:00 | ½ | CIR PRIOR TO SHORT TRIP |
| 6:00 | 8:15 | 2¼ | SHORT TRIP + PICK UP OTHER REAMER |
| 8:15 | 10:00 | 1¾ | CIRC BTTMS UP AT 790' + FINISH TRIP IN |
| 10:00 | 11:00 | 1 | CIRCULATE |
| 11:00 | 12:00 | 1 | HOIST TO RUN CASING |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 6 DATE FEB 21 90

OPERATOR: SCURRY-RAINBOW

LEASE: CORMACK AK #2

WELL NO. 2

FIELD OR DIST.: CORMACK AK

COUNTY: NUIT

STATE:

= DRLG LIC = 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. — SIZE: 4½

TOOL JOINT: 6¼ O.D.

TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Bob Drake

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Holladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | | DA500 | 16 |
| 3 | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 13⅜ | NATIONAL ASW | 54.5 | 24 | 745' | | 740 | |
| 4½ 16.6 #A + 3½ EUE | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¼ | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | 5½ | | |
| WAITING ON CEMENT | 1 | 8 | 3 |
| DRILL STEM TEST | | | |
| OTHER | | | 5 |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| | | | |
| | | | |
| | | | |
| TOTAL DAY WORK | | | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE 1⅛ |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL 795. | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Mark O'Rourke

FOOTAGE: FROM / TO / DR—D RM—R CORE—C / CORE NO. / FORMATION (SHOW CORE RECOVERY) / ROTARY RPM / WT. ON BIT 1000 # / PUMP PRESS / PUMP NO. LINER SIZE / S.P.M. / PUMP NO. LINER SIZE / S.P.M. / METHOD RUN SGL.—S PAR'EL—P COMP'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG: FROM / TO / ELAPSED TIME / DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.00 | ¼ | R - SER |
| 12.00 | 1.00 | ¾ | RIG TO RUN CASING |
| 1.00 | 4.30 | 3½ | RUN CASING |
| 4.30 | 5.45 | 1¼ | CIRC PRIOR TO CEMENT |
| 5.45 | 7.00 | 1¼ | CEMENT SURFACE CASING |
| 7.00 | 8.00 | 1 | WOC |
| | | 8 | |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Lance Pendleton

FOOTAGE: FROM / TO / DR—D RM—R CORE—C / CORE NO. / FORMATION (SHOW CORE RECOVERY) / ROTARY RPM / WT. ON BIT 1000 # / PUMP PRESS / PUMP NO. LINER SIZE / S.P.M. / PUMP NO. LINER SIZE / S.P.M. / METHOD RUN SGL.—S PAR'EL—P COMP'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG: FROM / TO / ELAPSED TIME / DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 4.00 | 8 | W.O.C. |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY 6 O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: Brent Holloway

FOOTAGE: FROM / TO / DR—D RM—R CORE—C / CORE NO. / FORMATION (SHOW CORE RECOVERY) / ROTARY RPM / WT. ON BIT 1000 # / PUMP PRESS / PUMP NO. LINER SIZE / S.P.M. / PUMP NO. LINER SIZE / S.P.M. / METHOD RUN SGL.—S PAR'EL—P COMP'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG: FROM / TO / ELAPSED TIME / DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 1:00 | 7:00 | 3 | W.O.C. |
| 7:00 | 12:00 | 5 | CUT OFF CASING + WELD ON CASING HEAD |
| | | | BOWL |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 7 DATE FEB 22 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK #2. DALS LIC # 410

WELL NO. 3 FIELD OR DIST. CORMACK LAKE COUNTY N.W.T STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4 SIZE 4½ TOOL JOINT 6¼ O.D. TYPE THD. X H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. L. Evans

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Holladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA500 | 16 |
| 3 | | | |

## LAST CASING / TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | 795 | | 795 | |
| | | | | | | | |

## TIME DISTRIBUTION — HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | 5 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | 1 | |
| LUBRICATE RIG | ¼ | 1¼ | ¼ |
| DEVIATION SURVEY | | | 1 |
| TEST B.O.P. | 1 | 1 | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | 6¾ | 5¾ | ¾ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. [illegible] | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| | STANDS D.P. | | FT. |
| | SINGLES D.P. | | FT. |
| | D.C. I.D. | O.D. | FT. |
| | D.C. I.D. | O.D. | FT. |
| | STB. BODY | O.D. | FT. |
| | STB. BODY | O.D. | FT. |
| | RMR. BODY | O.D. | FT. |
| | SUBS | O.D. | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | | FT. |
| | TOTAL | | FT. |
| WT. OF STRING | | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Mark Holladay

### FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD OF RUN SELF PAR'L-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | RIG SER. |
| 12.15 | 12.30 | ¼ | WELD ON CASING BOWL |
| 12.30 | 12.45 | ¼ | DRESS CASING STUB |
| 12.45 | 7.00 | 6¼ | HEAD UP. |
| 7.00 | 8.00 | 1 | PRESSURE RAISED TO 1000 PSI |
| | | ½ | |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 2 | STANDS D.P. | 187.75 | FT. |
| | SINGLES D.P. | | FT. |
| 17 | D.C. 6¼ I.D. | O.D. 504.91 | FT. |
| 1 | D.C. 7¾ I.D. | O.D. 28.30 | FT. |
| | STB. BODY | O.D. | FT. |
| | STB. BODY | O.D. | FT. |
| | RMR. BODY | O.D. | FT. |
| 2 | SUBS | O.D. 3.10 | FT. |
| | BIT OR C.B. | | FT. |
| | KELLY DOWN | 36.00 | FT. |
| | TOTAL | 760.06 | FT. |
| WT. OF STRING | 52,000 | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 1. |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | |
| DEPTH IN | 796 |
| TOTAL FTG. | |
| TOTAL HR. RUN | 0 |
| COND. OF BIT | NEW |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Ken Penhale

### FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD OF RUN SELF PAR'L-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 796 | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG. |
| 8:15 | 12:15 | 4 | NIPPLING UP WELLHEAD and BOP MANIFOLD ASSEM. |
| 12:15 | 1:15 | 1 | PICK UP DRILL COLLARS & LAY DOWN DRILL PIPE |
| 1:15 | 2:15 | 1 | TRIP |
| 2:15 | 3:15 | 1 | PRESS TEST PIPE RAMS 1200 P.S.I. o.k. HYDRIL 1200 o.k. |
| 3:15 | 4:00 | ¾ | TAGGED PLUG @ 760.06 - DRILL PLUG. |
| | | | (CHECKED MOTOR SHUT OFF - o.k.) |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 7 | STANDS D.P. | | FT. |
| 2 | SINGLES D.P. | 72.46 | FT. |
| 17 | D.C. 6¼ I.D. | O.D. 504.91 | FT. |
| 1 | D.C. 7¾ I.D. | O.D. 28.30 | FT. |
| | STB. BODY | O.D. | FT. |
| | STB. BODY | O.D. | FT. |
| | RMR. BODY | O.D. | FT. |
| 2 | SUBS | O.D. 3.10 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41.00 | FT. |
| | TOTAL | 1300 | FT. |
| WT. OF STRING | 69,000 | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 1A |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 1300 |
| DEPTH IN | 796 |
| TOTAL FTG. | 504 |
| TOTAL HR. RUN | 6 |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4:00 | 8:00 | 10:00 |
| WEIGHT | 8.4 | 8.4 | 8.5 |
| VISC.—SEC | 27 | 27 | 33 |
| W.L.—C.C. | | | |
| FLTR. CK. | | | |
| PH | | 11.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 5 | LIGNOSULPHONATE | 4 |
| CAUSTIC | 1 | | |

DRILLER Ken Penhale

### FOOTAGE 504

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD OF RUN SELF PAR'L-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 796 | 1300 | | | | 84 | 26 | 1150 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 881 | ¼ | | 971 | ¼ | | 1041 | ¼ | 125—S10° |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK TOPS |
| 4:15 | 4:30 | ¼ | DRILL OUT FLOAT & SHOE |
| 4:30 | 5:00 | ½ | DRILL 7⅞ HOLE 19.45 + 10:00 = 6 FOOTAGE 1100 |
| 5:00 | 7:00 | 2 | DRILL 7⅞ HOLE 1100 - 1130 1130 - 1145 1145 - 1200 |
| 7:00 | 7:30 | ½ | SURVEY @ 881 |
| 7:30 | 8:15 | 1 | DRILL 7⅞ HOLE 1200 - 1245 1245 - 1300 |
| 8:15 | 8:30 | ¼ | SURVEY @ 971 |
| 8:30 | 9:45 | 1¼ | DRILL 7⅞ HOLE |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 8 DATE FEB. 23 /70

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK LAKE #2

DRLG LIC. #10

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 | FIELD OR DIST. CORMACK LAKE | COUNTY Nwt | STATE

DRILL PIPE STRING NO. 4½ SIZE | TOOL JOINT 6¼ O.D. | TYPE THD. XH.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A.L. Drury

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA 500 | 16 |
| 2. | EMSCO | DA 500 | 16. |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | | | | 795' | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 5½ | 5¾ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | ½ | ¼ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | 1½ | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | ¾ | | |
| FISHING | | | |

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

TOTALS: 0 | 8 | 18

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK; HRS. W/DP; HRS. WO/DP; HRS. STANDBY; TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.; NO. OF LINES; SIZE; FEET SLIPPED; FEET CUT OFF; PRESENT LENGTH; TON MI. OR TRIPS SINCE LAST CUT; CUMULATIVE TON MI. OR TRIPS; NO. OF DAYS FROM SPUD; CUMULATIVE ROTATING HR.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 11 | STANDS D.P. | 1037.36 FT. |
| 1 | SINGLES D.P. | 31.53 FT. |
| 1 | D.C. I.D. O.D. | 28.36 FT. |
| 17 | D.C. 2 5/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 30. FT. |
| | TOTAL | 1635. FT. |
| WT. OF STRING | 64,000 | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 1635 |
| DEPTH IN | 796 |
| TOTAL FTG. | 839 |
| TOTAL HR. RUN | 11¼ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | 3:00 | 4:00 | 5:00 |
| WEIGHT | 8.7 | 8.9 | 8.7 |
| VISC.-SEC | 37 | 45 | 45 |
| W.L.-C.C. | | | 11.6 |
| FLTR. CK. | | | |
| PH | 9.5 | 9.5 | 11.5 |
| SD. CONT. % | Dis[illegible] | | 7.7 |
| PRESSURE GRADIENT | Dr[illegible] | | 8.9 |
| | SAND CONTEN. | | 6 % |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GELL | 3000# | C.M.C. | 150# |
| LIGNITE | 50# | | |
| DUGS | 2 sx | | |
| DRILLER | Mark Ly[illegible] | | |

**FOOTAGE**

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) |
|---|---|---|---|---|
| 1300 | 1635 | D | | |

| ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 84 | 30 | 1300 | 5½ | 62 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 1331 | ¼° | | 1426 | 1° | | 1520 | 1° | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SERV. To 5.45 8½ DRILLING. |
| 12.15 | 2.00 | 1¾ | BAKER SAVER SUB PARTED |
| 2.00 | 2.45 | ¾ | DRILLING |
| 2.45 | 3.00 | ¼ | SURVEY AT 1331 |
| 3.00 | 4.00 | 1 | DRILLING |
| 4.00 | 4.15 | ¼ | SURVEY AT 1426. |
| 4.15 | 5.30 | 1¼ | DRILLING |
| 5.30 | 5.45 | ¼ | SURVEY AT 1522 |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 13 | STANDS D.P. | 1226.86 FT. |
| 2 | SINGLES D.P. | 62.67 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| 17 | D.C. 2 5/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | KELLY DOWN | 24.16 FT. |
| | TOTAL | 1850.00 FT. |
| WT. OF STRING | 69,000 | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 1 |
| SIZE | 8¾ |
| MFG. | H.W |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | |
| DEPTH IN | 796 |
| TOTAL FTG. | 1054 |
| TOTAL HR. RUN | 17 |
| COND. OF BIT | Dr[illegible] |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | 10:00 | 1:00 | 3:00 |
| WEIGHT | 8.9 | 8.9 | 8.9 |
| VISC.-SEC | 41 | 45 | 48 |
| W.L.-C.C. | 7.2 | | 7.0 |
| FLTR. CK. | 2/32 | | 1/32 |
| PH | 9.5 | 9.0 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GELL | 2000# | DV 68 | 1 gal. |
| C.M.C. | 50# | No Stick | 1 gal. |
| CAUSTIC | 100# | | |
| DRILLER | Ken Pinchuk | | |

**FOOTAGE**

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) |
|---|---|---|---|---|
| 1655 | 1850 | 215 | | |

| ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 85 | 35 | 1200 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 1630 | 1¼° | | 1730 | 1° | | 1830 | 1½° | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | DRILL |
| 8:15 | 9:00 | ¼ | SER. RIG & CHECK BOPS O.K. |
| 9:00 | 9:15 | ¼ | SURVEY @ 1630' = 1¼° |
| 9:15 | 11:30 | 2¼ | DRILL |
| 11:30 | 1:00 | 1½ | CHANGE WASH PIPE & PACKING SURVEY @ 1730' 1° |
| 1:00 | 3:15 | 2¼ | DRILL |
| 3:15 | 3:30 | ¼ | SURVEY @ 1830' = 1½° |
| 3:30 | 4:00 | ½ | DRILL |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 6 | STANDS D.P. | FT. |
| 2 | SINGLES D.P. | 472.76 FT. |
| 1 | D.C. 2 5/16 I.D. 6¼ O.D. | 504.91 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 15.00 FT. |
| | TOTAL | 2070. FT. |
| WT. OF STRING | 72000 | LBS. |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 1 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 2070 |
| DEPTH IN | 796 |
| TOTAL FTG. | 1274 |
| TOTAL HR. RUN | 24½ |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 8.7 | 8.9 | 9.0 |
| VISC.-SEC | 48 | 47 | 52 |
| W.L.-C.C. | 7.6 | 7.0 | 6.4 |
| FLTR. CK. | 7/32 | | 7/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | 1.2 |
| PRESSURE GRADIENT | | | 19 |
| | | 20 | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Quick Gel | 1000# | CMC | 50# |
| GEL | 1000# | | |
| DV 68 | 1 gal. | | |
| DRILLER | Duane Anderson | | |

**FOOTAGE 220**

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) |
|---|---|---|---|---|
| 1850 | 1920 | | | |
| 1920 | 2070 | | | |

| ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 85 | 20 | 1200 | 5½ | 58 | | | |
| 105 | 15 | 1400 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 1920 | 2° | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 7:00 | 7:15 | ¼ | RIG SERVICE & CHECK B.O.P.S |
| 7:15 | 10:15 | 3 | DRILL 8¾" HOLE |
| 10:15 | 10:30 | ¼ | SURVEY 1920 1° |
| 10:30 | 12:00 | 1½ | DRILL 8¾" HOLE TO |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 9 DATE FEB 24.

DRLG LIC. # 410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SCURRY RAINBOW | CORMACK LAKE #2 | 2 | CORMACK | NWT | |

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd. | RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Thibaudeau

DRILL PIPE STRING: NO. 5, SIZE 4½ | TOOL JOINT O.D. 6¼ | TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA500 | 16 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7 | 7¼ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¼ | | |
| TRIPS | ¼ | | |
| LUBRICATE RIG | ¼ | ¼ | |
| DEVIATION SURVEY | ¼ | ½ | ¼ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 19 | STANDS D.P. | 1793.81 FT. |
| | SINGLES D.P. | FT. |
| 17 | D.C. 2 7/16 I.D. 6¼ O.D. | 504.91 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 2371 FT. |
| WT. OF STRING | 75M | LBS. |

| BIT RECORD | |
|---|---|
| BIT NO. | 1 |
| SIZE | 6¼ |
| MFG. | H.W. |
| TYPE | K3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 2371 |
| DEPTH IN | 795 |
| TOTAL FTG. | 1576 |
| TOTAL HR. RUN | 31½ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 2.00 | 4.00 | 6:00 |
| WEIGHT | 1.0 | 1.1 | 9.1 |
| VISC.-SEC | 45 | 60 | 61 |
| W.L.-CC. | 6.1 | 6.0 | 6.0 |
| FL.TR. CK. | 1/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | 1.8 |
| PRESSURE GRADIENT | | | 9.1 |
| | | | 17# |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 100# | CMC | 100# |
| DV68 | 1 gal | | |
| NoStick | 1 gal | | |
| DRILLER | Mac & Dale | | |

| FOOTAGE FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 2070 | 2371 | 301 | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN |
|---|---|---|---|---|---|---|---|---|
| | 110 | 30 | 1200 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 2056 DEV. 1° DIRECTION | DEPTH 2150 DEV. 2° DIRECTION | DEPTH 2244 DEV. 2° DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | R.C SER |
| 12.15 | 12.30 | ¼ | DRILLING |
| 12.30 | 12.45 | ¼ | SURVEY AT 2056 |
| 12.45 | 3.30 | 2¾ | DRILLING |
| 3.30 | 3.45 | ¼ | SURVEY AT 2150 |
| 3.45 | 5.45 | 2 | DRILLING |
| 5.45 | 6.00 | ¼ | SURVEY AT 2244 |
| 6.00 | 8.00 | 2 | DRILLING. |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 21 | STANDS D.P. | 1980.08 FT. |
| 1 | SINGLES D.P. | 3170 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| 17 | D.C. 2 7/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 13.00 FT. |
| | TOTAL | 2561.09 FT. |
| WT. OF STRING | 77,000 | LBS. |

| BIT RECORD | |
|---|---|
| BIT NO. | 1 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3A-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 2561 |
| DEPTH IN | 795 |
| TOTAL FTG. | 1756 |
| TOTAL HR. RUN | 38¾ |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 9.00 | 12.00 | 3.00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 58 | 55 | 56 |
| W.L.-CC | 6.0 | 5.4 | 5.4 |
| FL.TR. CK. | 3/32 | 3/32 | 3/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | DESILTER Suc | | 9.1 |
| | Ex. | | 10.8 |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 1600# | DV68 | 1 gal |
| CMC | 150# | CAUSTIC | 50# |
| NoStick | 2 gal | | |
| DRILLER | | | |

| FOOTAGE FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 2371 | 2561 | 190 | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN |
|---|---|---|---|---|---|---|---|---|
| SHALE | 160 | 20 | 1200 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 2360 DEV. 1¾° DIRECTION | DEPTH 2460 DEV. 2° DIRECTION | DEPTH DEV. DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG & CHECK BOP'S (ok) MOUD SHUT OFF (ok) |
| 8.15 | 8.30 | ¼ | SURVEY @ 2360 = 1¾° |
| 8.30 | 11.30 | 3 | DRILL |
| 11.30 | 11.45 | ¼ | SURVEY @ 2460 = 2° (CHECK KELLY SAVER (ok.) |
| 11.45 | 4.00 | 4¼ | DRILL WT. 15,000 |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 23 | STANDS D.P. | 2169.49 FT. |
| | SINGLES D.P. | FT. |
| 17 | D.C. 2 7/16 I.D. 6¼ O.D. | 504.91 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | FT. |
| WT. OF STRING | 74,000 | LBS. |

| BIT RECORD | |
|---|---|
| BIT NO. | 1 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3A |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 2746 |
| DEPTH IN | 1796 |
| TOTAL FTG. | 950 |
| TOTAL HR. RUN | 16 |
| COND. OF BIT | DR16 |
| REAMER NO. | |
| REAMER TYPE | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 5.00 | 9.00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 55 | 57 | 59 |
| W.L.-CC | 5.4 | 5.4 | 5.4 |
| FL.TR. CK | 3/32 | 3/32 | 3/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | DESILTER Suc | | 9.1 |
| | EX | | 10.4 |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 500# | Washden | 1 sack |
| DV68 | 1 gal | CAUSTIC | 50# |
| CMC | 150 | | |
| DRILLER | | | |

| FOOTAGE FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 2561 | 2746 | | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN |
|---|---|---|---|---|---|---|---|---|
| | 160 | 18 | 1100 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 2580 DEV. 1½ DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | R.C SERVICE + CHECK BOP |
| 4.15 | 6.30 | 7½ | DRILL 8¾" HOLE |
| 6.30 | 7.00 | ½ | SURVEY AT 2580 1½° |
| 7.00 | 12.00 | 5 | DRILL 8¾" HOLE |

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 10 DATE Feb 25

OPERATOR: SCURRY R. (10 P.M.)

LEASE: [illegible] UNIT #2

WELL NO. 2 FIELD OR DIST. [illegible] COUNTY [illegible] STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 4

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasiewicz

DRILL PIPE STRING: NO. 24 SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X H

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA 5000 | 16 |
| 2. | EMSCO | DA 5000 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 22 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG U.P.& TEAR DOWN | | | |
| DRILLING ACTUAL | 3½ | 3 | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¼ | | |
| TRIPS | 3 | 2½ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | | |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | | 1 | |
| REPAIR RIG | | ½ | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ½ | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 4 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 24 | STANDS DP. | 2252.61 FT. |
| 2 | SINGLES D.P. | FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| 17 | D.C. 2 2/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 1 | SUBS XO O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 2839.91 FT. |
| | WT. OF STRING | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 1 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X3AJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 11 |
| SER. NO. | 12250 |
| DEPTH OUT | 2839 |
| DEPTH IN | 795 |
| TOTAL FTG. | 2044 |
| TOTAL HR. RUN | 49½ |
| COND. OF BIT | T 2 1 |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | |
|---|---|---|
| TIME | 8:30 | 4:00 |
| WEIGHT | 1.1 | 1.1 |
| VISC.-SEC | 58 | 60 |
| W.L.-C.C. | 5.4 | 5.4 |
| FLTR. CK. | 2/32 | 1/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 33 SX | | |
| CMC | 50# | | |
| No Stick | 1 GAL | | |

DRILLER: Marvin Reid

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2746 | 2839 | 93 | | | 160 | 18 | 1200 | 5½ | 59 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 2715 | 1½ | | 2808 | 2¼ | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 12.30 | ¼ | SURVEY AT 2715 |
| 12.30 | 4.00 | 3½ | DRILLING |
| 4.00 | 4.30 | ½ | CIRC SAMPLE |
| 4.30 | 5.00 | ½ | SURVEY AT 2808 |
| 5.00 | 8.00 | 3 | HOLE - PT #1 STAND OUT PUMP #3 (TIGHT HOLE) |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 24 | STANDS D.P. | 2262.61 FT. |
| 3 | SINGLES D.P. | 62.74 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| 17 | D.C. 2 2/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 28.34 FT. |
| | TOTAL | 2890. FT. |
| | WT. OF STRING | 85,000 LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X3AJ |
| NOZZLE NO. | 2-12 |
| NOZZLE SIZE | 1-11 |
| SER. NO. | 20338 |
| DEPTH OUT | |
| DEPTH IN | 2839 |
| TOTAL FTG. | 51 |
| TOTAL HR. RUN | 3 |
| COND. OF BIT | DR66 |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 2 | | 2.00 |
| WEIGHT | 1 | | 9.1 |
| VISC.-SEC | | | 56 |
| W.L.-C.C. | R | | 5.6 |
| FLTR. CK. | 1 | | 2/32 |
| PH | | P | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 1000 | CMC. | 50# |
| No Stick | 1 GAL | DV 68 | 1 GAL |
| CAUSTIC | 50# | | |

DRILLER: [illegible]

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2839 | 2890 | 51 | | SHALE | 150 | 10 | 1000 | 5½ | 58 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 2.00 | 9.30 | 1½ | TRIP — Board 2839 92 |
| 9.30 | 10.00 | ½ | REPAIR DEADWORKS CHAIN — Strap 2839 48 |
| 10.00 | 10.15 | ¼ | CHECK BOP'S BLIND RAMS PIPE RAMS OK. — Diff 41 |
| 10.15 | 10.30 | ¼ | SER. RIG — NO. CORR |
| 10.30 | 11.30 | 1 | SLIP 49' DRILLING LINE & CUT 49' |
| 11.30 | 12.30 | 1 | TRIP |
| 12.30 | 1.00 | ½ | CLEAN UP SLUFFING HOLE TO BOTTOM. |
| 1.00 | 4.00 | | DRILL. WT. 10,000 |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 26 | STANDS D.P. | 2449.67 FT. |
| | SINGLES D.P. | FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| 17 | D.C. 2 2/16 I.D. 6¼ O.D. | 504.91 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 3.16 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41 FT. |
| | TOTAL | 3026 FT. |
| | WT. OF STRING | 89,000 LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | 3 |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | 2839 |
| TOTAL FTG. | 187 |
| TOTAL HR. RUN | 10¼ |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.9 | 9.1 | 9.1 |
| VISC.-SEC | 59 | 57 | 54 |
| W.L.-C.C. | 5.6 | 5.4 | 5.4 |
| FLTR. CK | 3/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | DUMPED SHAKER | | |
| PRESSURE GRADIENT | TANK # BUILD VOLUME | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 130 | CMC | 150# |
| DV 69 | 1 GAL | CAUSTIC | 50# |
| No Stick | 2 GAL | | |

DRILLER: [illegible]

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2890 | 3026 | | | | 150 | 12 | 1000 | | 57 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 2970 | ½° | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK BOP |
| 4:15 | 8:00 | 3¾ | DRILL 8¾ HOLE |
| 8:00 | 8:30 | ½ | SURVEY AT 2970 FEET ½° |
| 8:30 | 12:00 | 3½ | DRILL 8¾ HOLE |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 11 DATE FEB. 26. 1970

OPERATOR: SCURRY. RAINBOW.

LEASE: CORNACK LAKE

WELL NO. 2 FIELD OR DIST. CORNACK LAKE. COUNTY NWT STATE

DELG. LIC # 410.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lubasewich

DRILL PIPE STRING: NO. 4½ SIZE; TOOL JOINT 6¼ O.D.; TYPE THD. X H

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO. | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26. | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7¼ | 2½ | 6¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | ½ | |
| TRIPS | | 4 | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ½ | ¼ | 1½ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ½ | |
| FISHING | | | |

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

TOTALS: 8 8 8

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK; HRS. W/DP; HRS. WO/DP; HRS. STANDBY; TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.; NO. OF LINES 8 SIZE 1⅛; FEET SLIPPED; FEET CUT OFF; PRESENT LENGTH; TON MI. OR TRIPS SINCE LAST CUT; CUMULATIVE TON MI. OR TRIPS; NO. OF DAYS FROM SPUD; CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 27 | STANDS D.P. | 2543.11 FT. |
| 1 | SINGLES D.P. | 31.55 FT. |
| 17 | D.C. 2 13/16 I.D. 6¼ O.D. | 504.91 FT. |
| 1 | D.C. I.D. O.D. | 28.30 FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X O O.D. | 3.10 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.80 FT. |
| | TOTAL | 3120 FT. |

WT. OF STRING 80 m. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X1G3 |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3120 |
| DEPTH IN | 2839 |
| TOTAL FTG. | 281 |
| TOTAL HR. RUN | 17½ |
| COND. OF BIT | DRLG. CMC |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | | |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 60 | | |
| W.L.-C.C. | 5.4 | | 5.6 |
| FLTR. CK. | 1/32 | | |
| PH | 9.5 | 9.5 | 10 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3036. | 3060 | 24 | | | 140 | 12 | 1000 | 5½ | 58 | | | |
| 3060 | 3120 | 60 | | | 140 | 10 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3026. DEV. 2½ DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER. & CHECK KELLY COCK |
| 12.15 | 1.30 | 1¼ | DRILLING |
| 1.30 | 2.00 | ½ | SURVEY 3026 |
| 2.00 | 8.00 | 6 | DRILLING W/ 12 & 11 JET |

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 28 | STANDS D.P. | 2636.76 FT. |
| 1 | SINGLES D.P. | 31.63 FT. |
| X | D.C. I.D. O.D. | FT. |
| 16 | D.C. 2 13/16 I.D. | 474.56 FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X O O.D. | 4.96 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 11.40 FT. |
| | TOTAL | 3165.00 FT. |

WT. OF STRING 85,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X1G-J |
| NOZZLE NO. | 2 4 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | |
| DEPTH IN | 2839 |
| TOTAL FTG. | 326 |
| TOTAL HR. RUN | 20 |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9.00 | | |
| WEIGHT | 9.0 | | T |
| VISC.-SEC | 55 | | R |
| W.L.-C.C. | 5.6 | | |
| FLTR. CK. | 4/32 | | 1 |
| PH | 9.5 | | P |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| C.M.C. | 100# | GEL. | 500 |
| No Stick | 1 gal | | |
| Caustic | 50# | | |

DRILLER R. Pinkus

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3120 | 3165 | | | SHALE | 150 | 10 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3140 DEV. 2¾° DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 9.30 | 1½ | DRILL (STAB 63' OFF BOTTOM) |
| 9.30 | 9.45 | ¼ | SURVEY @ 3140 = 2¾° |
| 9.45 | 10.00 | ¼ | RIG SER. & CHECK BOP'S |
| 10.00 | 10.30 | ½ | CIRC. HOLE PRIOR TO TRIP. |
| 10.30 | 12.30 | 2 | TRIP TO LAY DOWN SQUARE DRILL COLLAR. |
| 12.30 | 1.00 | ½ | LAY DOWN 2 DRILL COLLARS & PICK UP STABILIZER. |
| 1.00 | 3.00 | 2 | TRIP IN WASH 67' TO BOTTOM |
| 3.00 | 4.00 | 1 | DRILL WT. 10,000 |

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 29 | STANDS D.P. | 2761.93 FT. |
| 1 | SINGLES D.P. | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | FT. |
| | BIT OR C.B. | 4.95 FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 3288 FT. |

WT. OF STRING 90,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X1G-J |
| NOZZLE NO. | 2 |
| NOZZLE SIZE | 11. |
| SER. NO. | 20339 |
| DEPTH OUT | 3288 |
| DEPTH IN | 2839 |
| TOTAL FTG. | 449 |
| TOTAL HR. RUN | 26¼ |
| COND. OF BIT | DRG |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6.00 | | 10.00 |
| WEIGHT | 9.1 | | 9.1 |
| VISC.-SEC | 63 | | 61 |
| W.L.-C.C. | 5.4 | 5.0 | 5.0 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | 10.7 |
| PRESSURE GRADIENT | | | 9.1 |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 2 gal | | |
| CMC | 100# | | |

DRILLER Brian Inkster

FOOTAGE 123

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3165 | 3288 | | | | 150 | 10/15 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3185. DEV. 2¾° DIRECTION; DEPTH 3215 DEV. 2° DIRECTION; DEPTH 3246 DEV. 1°

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:45 | ¾ | OIL SERVICE & CHECK BOP'S (STB 63' OFF BOTTOM) |
| 4:45 | 5:45 | 1 | WIRE LINE IN HOLE |
| 5:45 | 6:15 | ½ | SURVEY @ 3185 - 2° |
| 6:15 | 8:00 | 1¾ | DRILL 8¾" HOLE |
| 8:00 | 8:30 | ½ | SURVEY @ 3215 - 2° |
| 8:30 | 10:00 | 1½ | DRILL 8¾" HOLE |
| 10:00 | 10:30 | ½ | SURVEY @ 3246 - 2° |
| 10:30 | 12:00 | 1½ | DRILL 8¾" HOLE |

APPROVED (AD) APPROVED (AAODC)

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 12 DATE Feb 27

OPERATOR: Sunray Rainbow

LEASE: Cormack Lake

WELL NO. 3 FIELD OR DIST. Cormack Lake COUNTY Nwt STATE

DRLG Lic # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd. RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Tom Hynes

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

DRILL PIPE STRING: NO. 4½ SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | Emsco | D850 | 16 |
| 2. | Emsco | D500 | 11 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795' | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7½ | 6¾ | 7 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | 1 | ½ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 9/16

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| R1 | STANDS D.P. | 29 60 FT. |
| 1 | SINGLES D.P. | 31.16 FT. |
| 16 | D.C. 2¼ I.D. 6¼ O.D. | 479.56 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | STB. BODY 2¼ O.D. | 5.70 FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 19.00 FT. |
| | TOTAL | 3458 FT. |

WT. OF STRING 90M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XIGJ |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3458 |
| DEPTH IN | 2639 |
| TOTAL FTG. | 819 |
| TOTAL HR. RUN | 53½ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | 3:00 | 6:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 60 | 59 | 60 |
| W.L.-C.C. | 5.2 | 5.4 | 5.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| N. | | | 50# |
| GEL | 5# | CMC | 100# |
| DV68 | 1 GAL | | |

DRILLER Maurice Rainbow

FOOTAGE

| FROM | TO | DR. D RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3288 | 3458 | 170 | | | 150 | 12½ 15 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3351 DEV. 1½° — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig Ser + Kelly Cock + Check Motor Shut Off |
| 12.15 | 4.00 | 3¾ | Drilling 8¾" Hole |
| 4.00 | 4.30 | ½ | Survey at 3351 at 1½° |
| 4.30 | 8.00 | 3½ | Drilling 8¾" Hole |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 33 | STANDS D.P. | 3108.66 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 5/16 I.D. 6¼ O.D. | 479.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 12.13 FT. |
| | TOTAL | 3606.00 FT. |

WT. OF STRING 92 000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | XIG-J |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | |
| DEPTH IN | 2639 |
| TOTAL FTG. | 767 |
| TOTAL HR. RUN | 40¼ |
| COND. OF BIT | DR16 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 12:00 | 3:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 55 | 63 | 54 |
| W.L.-C.C. | 5.2 | 5.4 | 5.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 600# | | |
| C.M.C. | 50# | | |

DRILLER L. D.

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3458 | 3606 | 148 | | SHALE | 150 | 12/20 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3470 DEV. 1½° — DIRECTION — DEPTH 3570 DEV. 1¼° — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | Ser. Rig & Check Bops & Kelly Valve (ok) |
| 8:15 | 9:00 | ¾ | Drill |
| 9:00 | 9:30 | ½ | Survey @ 3470 = 1½° |
| 9:30 | 3:15 | 5¾ | Drill |
| 3:15 | 3:45 | ½ | Survey @ 3570' = 1¼° |
| 3:45 | 4:00 | ¼ | Drill |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 24 | STANDS D.P. | FT. |
| 2 | SINGLES D.P. | 326.42 FT. |
| 16 | D.C. I.D. O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 1 | SUBS O.D. | 4.45 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 21.00 FT. |
| | TOTAL | 3774 FT. |

WT. OF STRING 94 000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XIG |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3774 |
| DEPTH IN | 3439 |
| TOTAL FTG. | 335 |
| TOTAL HR. RUN | 48½ |
| COND. OF BIT | DRG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4:00 | 7:00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 53 | 58 | 62 |
| W.L.-C.C. | 5.2 | 5.2 | 4.8 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 300# | CAUSTIC | 50# |
| DV68 | 9 GAL | | |
| CMC | 100# | | |

DRILLER Norm Anderson

FOOTAGE 70

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3606 | 3776 | | | | 110 80 | 25 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3690 DEV. ½° — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service + Check BOP |
| 4:15 | 8:00 | 3¾ | Drill 8¾ Hole |
| 8:00 | 8:30 | ½ | Survey @ 3690 - ½° |
| 8:30 | 12:00 | 3½ | Drill 8¾ Hole |

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 33 DATE Dec 20/70

OPERATOR: Sperry Rainbow

LEASE: Sperry Cormack Lk #2

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

WELL NO. | FIELD OR DIST. | COUNTY | STATE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Leo Bregar

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Mack Halladay.

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | | |

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES / SIZE | |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. | I.D. O.D. | FT. |
| D.C. | I.D. O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L Linstad

FOOTAGE: FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12^00 | 12^00 | 11 | Rig Idle. |
| 12^00 | 4^00 | 3¾ | Lay Down BOP's + Clean Mud Tanks |
| 4^00 | 8^00 | 4 | Tear Out Rig. |

Released H. 2 PM Dec 19/70
E. Briggs.

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. | I.D. O.D. | FT. |
| D.C. | I.D. O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL TR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE: FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8^00 | 8^00 | 12 | Tear Out & Load Rig. |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | | FT. |
| D.C. | I.D. O.D. | FT. |
| D.C. | I.D. O.D. | FT. |
| STB. BODY | O.D. | FT. |
| STB. BODY | O.D. | FT. |
| RMR. BODY | O.D. | FT. |
| SUBS | O.D. | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.—SEC | |
| W.L.—C.C. | |
| FL TR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE: FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG: FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 32 DATE MARCH 19TH 1990

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK. #2

DRILLING

LIC. # 410

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4 SIZE 4½ TYPE THD. X-H

TOOL JOINT 6¼ O.D.

WELL NO. 2

FIELD OR DIST. CORMACK LK #2

COUNTY CANADA

STATE N.W.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: K. L. Halladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA 500 | 16 |
| 2. | EMSCO | DA 500 | 16 |
| 3. | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 ¾ | | | | 795 | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | 8 | |

## TIME SUMMARY (OFFICE USE ONLY)

| | | |
|---|---|---|
| DAY WORK | | |
| HRS. W/DP | | |
| HRS. WO/DP | | |
| HRS. STANDBY | | |
| TOTAL DAY WORK | | |

## WIRE LINE RECORD

REEL NO.

NO. OF LINES ____ SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4351.00 FT. |
| 2 | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | C |
| SIZE | P |
| MFG. | E |
| TYPE | N |
| NOZZLE NO. | |
| NOZZLE SIZE | 6 |
| SER. NO. | N |
| DEPTH OUT | D |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L. Pinsent

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D | | | | | | | | | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 1:30 | 1½ | BREAK & LAY-DOWN TEST TOOL |
| 1:30 | 2:00 | ½ | LAY DOWN DRILL COLLARS & SINGLES |
| 2:00 | 2:45 | ¾ | TRIP |
| 2:45 | 3:15 | ½ | CIRC. |
| 3:15 | 4:00 | ¾ | WIRE LINE LOG 1 FROM 4320-4150 (10 OHMS - 3½ BACK) |
| 4:00 | 8:00 | 4 | WAIT ON CEMENT |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: [illegible]

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SER. |
| 8:15 | 11:00 | 3 | W.O.C. |
| 11:00 | 12:00 | ¾ | RUN IN TO FEEL PLUG #1 |
| 12:00 | 12:45 | ¾ | PULL OUT TO RUN PLUG #2 |
| 12:45 | 1:15 | ½ | MIX & PUMP DOWN PLUG #2 FROM 850' TO 750' 75 SKS + 3% CACL |
| 1:15 | 4:00 | 2¾ | W.O.C. & LAY DOWN PIPE. |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

### BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SER. |
| 4:15 | 9:00 | 4¾ | W.O.C. |
| 9:00 | 9:15 | ¼ | RUN IN & FEEL PLUG #2 @ 732' |
| 9:15 | 10:00 | ¾ | LAY DOWN PIPE. |
| 10:00 | 12:00 | 2 | TEAR OUT BOPS |

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 31 — DATE MARCH 18TH 1970

DRILLING LIC. # 410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SCURRY RAINBOW | CORMACK LK. #2 | 2 | CORMACK LK. #2 | CANADA | N.W.T. |

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD. X.H. — TOOL JOINT O.D. 6¼

SIGNATURE OF OPERATOR'S REPRESENTATIVE: T.D. Murray

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | | 795 | | | |
| | | | | | | | |
| | | | | | | | |

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | 6½ | | |
| TRIPS | | 3½ | |
| LUBRICATE RIG | ¼ | ½ | |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | ¼ | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | 1½ | |
| DRILL STEM TEST | | | |
| OTHER | | 3½ | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | |

TIME SUMMARY (OFFICE USE ONLY)

| | | | |
|---|---|---|---|
| DAY WORK | | | |
| HRS. W/DP | | | |
| HRS. WO/DP | | | |
| HRS. STANDBY | | | |
| TOTAL DAY WORK | | | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 1⅛ |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 46 | STANDS D.P. | 4351.00 |
| 2 | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | 4350 FT. |
| WT. OF STRING | 80,000 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 0 |
| SIZE | 8 |
| MFG. | E |
| TYPE | N |
| NOZZLE NO. | |
| NOZZLE SIZE | E |
| SER. NO. | N |
| DEPTH OUT | D |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | 6⁰⁰ |
| WEIGHT | 9.4 |
| VISC.-SEC | 124 |
| W.L.-C.C. | 4.4 |
| FLTR. CK. | 2/32 |
| PH | 9.5 |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Len Fenchuk

FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4875 | T.D. | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12⁰⁰ | 12¹⁵ | ¼ | SER. RIG. |
| 12¹⁵ | 12³⁰ | ¼ | CHECK MOTOR SHUT-OFFS & BOPS OK. |
| 12³⁰ | 1³⁰ | 1 | TRIP |
| 1³⁰ | 8⁰⁰ | 6½ | CIRC. & WAIT ON ORDERS |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK. | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Len Fenchuk

FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SERVICE |
| 8:15 | 9:30 | 1¼ | ~~TEST~~ WAIT ON ORDERS. |
| 9:30 | 10:45 | 1¼ | HOIST PIPE. |
| 10:45 | 2:00 | 3¼ | MAKE UP TESTING TOOL |
| 2:00 | 4:00 | 2 | RUN IN WITH TEST #2 |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | 0 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Len Fenchuk

FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HELD T.D. | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE |
| 4:15 | 4:30 | ¼ | HEAD UP ~~TEST~~ S TEST |
| 4:30 | 8:30 | 4 | TESTING WITH JOHNSON |
| 8:30 | 12⁰⁰ | 3½ | TRIP OUT W/DST #2 |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 30 — DATE MARCH 17TH 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK. # 2

DRILLING LIC. # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 — FIELD OR DIST. CORMACK LK. # 2 — COUNTY CANADA — STATE N.W.T.

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD. XH — TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Hank Holliday

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DASCO | 16 |
| 2. | EMSCO | DASCO | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 795 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | 1½ | 3½ |
| LUBRICATE RIG | ¼ | ½ | ½ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | 1 | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | 4 | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | 4 | |
| OTHER | | 2½ | 4½ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

PAST WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 — SIZE 1 1/16

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. — SIZE — MFG. — TYPE — NOZZLE NO. — NOZZLE SIZE — SER. NO. — DEPTH OUT — DEPTH IN — TOTAL FTG. — TOTAL HR. RUN — COND. OF BIT — REAMER NO. — REAMER TYPE

MUD RECORD: TIME — WEIGHT — VISC.-SEC — W.L.-C.C. — FLTR. CK. — PH — SD. CONT. % — PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT.

DRILLER: Len Packett

FOOTAGE: FROM — TO — DR.D RM.R CORE.C — CORE NO. — FORMATION (SHOW CORE RECOVERY) — ROTARY RPM — WT. ON BIT 1000 # — PUMP PRESS — PUMP NO. LINER SIZE — S.P.M. — PUMP NO. LINER SIZE — S.P.M. — METHOD RUN SGL.-S PAR'EL-P COM'D-C

| FROM | TO | |
|---|---|---|
| 4875 | T.D. | |

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 4:00 | 4:00 | LOGGING |
| 4:00 | 4:15 | ¼ | SER. RIG CHECK MOTOR SHUT OFFS |
| 4:15 | 5:00 | ¾ | SLIP 49' & CUT 49' DRILLING LINE |
| 5:00 | 6:00 | 1¼ | W.O. LOG READINGS |
| 6:00 | 9:00 | 1¾ | PICK UP & MAKING UP D.S.T. # 1 |

(TAIL PIPE RAN 6 STANDS 1 SINGLE)

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. — SIZE — MFG. — TYPE — NOZZLE NO. — NOZZLE SIZE — SER. NO. — DEPTH OUT — DEPTH IN — TOTAL FTG. — TOTAL HR. RUN — COND. OF BIT — REAMER NO. — REAMER TYPE

MUD RECORD: TIME — WEIGHT — VISC.-SEC — W.L.-C.C. — FLTR. CK. — PH — SD. CONT. % — PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT.

DRILLER: Len Packett

FOOTAGE: FROM — TO — DR.D RM.R CORE.C — CORE NO. — FORMATION (SHOW CORE RECOVERY) — ROTARY RPM — WT. ON BIT 1000 # — PUMP PRESS — PUMP NO. LINER SIZE — S.P.M. — PUMP NO. LINER SIZE — S.P.M. — METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SERVICE + CHECK B.O.P. |
| 8:15 | 9:15 | 1 | PICK UP & MAKE UP TESTING TOOL |
| 9:15 | 10:00 | 1¾ | RUN IN WITH TEST # 1 |
| 10:00 | 11:30 | 1½ | HEAD UP TEST + BLOW FLARE LINE |
| 11:30 | 3:30 | 4 | TESTING WITH FORMATION |
| 3:30 | 4:00 | ½ | TEAR OUT HEAD |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| | STANDS D.P. | FT. |
| | SINGLES D.P. | FT. |
| | D.C. I.D. O.D. | FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | FT. |
| WT. OF STRING | | LBS. |

BIT RECORD: BIT NO. — SIZE — MFG. — TYPE — NOZZLE NO. — NOZZLE SIZE — SER. NO. — DEPTH OUT — DEPTH IN — TOTAL FTG. — TOTAL HR. RUN — COND. OF BIT — REAMER NO. — REAMER TYPE

MUD RECORD: TIME — WEIGHT — VISC.-SEC — W.L.-C.C. — FLTR. CK. — PH — SD. CONT. % — PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE — AMT. — TYPE — AMT.

NIL

DRILLER: Len Packett

FOOTAGE: FROM — TO — DR.D RM.R CORE.C — CORE NO. — FORMATION (SHOW CORE RECOVERY) — ROTARY RPM — WT. ON BIT 1000 # — PUMP PRESS — PUMP NO. LINER SIZE — S.P.M. — PUMP NO. LINER SIZE — S.P.M. — METHOD RUN SGL.-S PAR'EL-P COM'D-C

| FROM | TO | |
|---|---|---|
| 4875 | T.D. | |

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE |
| 4:15 | 6:30 | 2¼ | HOOK UP TEST # 1 |
| 6:30 | 8:00 | 1½ | BREAK DOWN TESTING TOOL |
| 8:00 | 9:00 | 1 | LOAD OUT TESTING TOOL |
| 9:00 | 10:00 | 1 | RUN IN DRILL COLLARS |
| 10:00 | 12:00 | 2 | LAY DOWN DRILL COLLARS (INHIBITOR TREATED) |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 29 — DATE MARCH 16TH 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK. #2

DRILLING LIC. # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 — FIELD OR DIST. CORMACK LK. #2 — COUNTY CANADA — STATE N.W.T.

DRILL PIPE STRING: NO. — SIZE 4½ — TYPE THD. XH — TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 795 | |
| | | | | | | | |
| | | | | | | | |

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7¾ | 1 | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 1½ | |
| TRIPS | | 2½ | |
| LUBRICATE RIG | ¼ | ¼ | |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | 8 | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ¼ | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| | |
| | |
| | |
| TOTAL DAY WORK | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 1⅛ |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.4 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2¼ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | | FT. |
| | TOTAL | | FT. |

WT. OF STRING 116,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 13 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | R62BX-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 26998 |
| DEPTH OUT | 1N |
| DEPTH IN | 4642 |
| TOTAL FTG. | 30 |
| TOTAL HR. RUN | 17 |
| COND. OF BIT | Drlg. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10:00 | 3:00 | 6:00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 130 | 128 | 129 |
| W.L.-C.C. | 4.8 | 4.6 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stuck Tool | | | |
| Conc. 100# | | | |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. |
|---|---|---|---|
| 4856 | 4872 | 16 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COMP'D—C |
|---|---|---|---|---|---|---|---|
| 38 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | SER. RIG & CHECK KELLY VALVE (ok.) |
| 12:15 | 8:00 | 7¾ | DRILL |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.41 | FT. |
| 1 | SINGLES D.P. | 31.30 | FT. |
| 16 | D.C. 2¼ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 24.00 | FT. |
| | TOTAL | 4971 | FT. |

WT. OF STRING 112,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 13 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | RC-BX |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 22998 |
| DEPTH OUT | 4975 |
| DEPTH IN | 4942 |
| TOTAL FTG. | 33 |
| TOTAL HR. RUN | 18 |
| COND. OF BIT | 2-2-1 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | 10:00 |
| WEIGHT | 9.5 |
| VISC.-SEC | 162 |
| W.L.-C.C. | 3.4 |
| FLTR. CK. | 2/32 |
| PH | 9.5 |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stuck Tool | 1 gal | | |
| | | | |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. |
|---|---|---|---|
| 4872 | 4975 | 3 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COMP'D—C |
|---|---|---|---|---|---|---|---|
| 40 | 3½ | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 4975 | 2° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | RIG SERVICE & CHECK BOPE |
| 8:15 | 10:45 | 1½ | CIR. PRIOR TO LOGGING |
| 10:45 | 11:00 | ¼ | SURVEY @ 4975 |
| 11:00 | 1:30 | 2½ | HOIST TO LOG. (14 STDS) |
| 1:30 | 2:00 | ½ | RIG UP DRESSER ATLAS. |
| 2:00 | 4:00 | 2 | LOGGING WITH DRESSER ATLAS |
| | | 0 | |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.41 | FT. |
| 1 | SINGLES D.P. | 31.30 | FT. |
| 16 | D.C. 2¼ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 24.00 | FT. |
| | TOTAL | 4975 | FT. |

WT. OF STRING 118,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE | |
| MFG. | |
| TYPE | |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | |
| DEPTH OUT | |
| DEPTH IN | |
| TOTAL FTG. | |
| TOTAL HR. RUN | |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | |
| WEIGHT | |
| VISC.-SEC | |
| W.L.-C.C. | |
| FLTR. CK | |
| PH | |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DR—D RM—R CORE—C | CORE NO. |
|---|---|---|---|
| 4875 | T.D. | | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL—S PART'L—P COMP'D—C |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 12:00 | 8 | LOGGING WITH DRESSER ATLAS |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 28 — DATE MARCH 15TH 1970

OPERATOR: Scurry Rainbow

LEASE: Cormack Lk # 2 — Dev. Lic.

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

WELL NO. 2 — FIELD OR DIST. Cormack Lk # 2 — COUNTY Canada — STATE N.W.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ken Halladay

DRILL PIPE STRING: NO. 4½ SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA 200 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | | 795 |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 11½ | 11¼ | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | ½ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | ¼ |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 11a

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH 2939

TON MI. OR TRIPS SINCE LAST CUT 319

CUMULATIVE TON MI. OR TRIPS 4354

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2¼ 6¼ I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 3.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUB XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 18.43 | FT. |
| | TOTAL | 4820.00 | FT. |
| WT. OF STRING | 116,000 | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 12 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | R61XJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | SE293 |
| DEPTH OUT | IN |
| DEPTH IN | 4776 |
| TOTAL FTG. | 62 |
| TOTAL HR. RUN | 25 |
| COND. OF BIT | GRINDING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10⁰⁰ | 3⁰⁰ | 6⁰⁰ |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 136 | 131 | 133 |
| W.L.-C.C. | 4.0 | 4.0 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Sink | 1 gal | | |

DRILLER: Ken Lockerbie

FOOTAGE

| FROM | TO | DRILL RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4816 | 4838 | 22 | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|
| | 36 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12⁰⁰ | 12¹⁵ | ¼ | SER. RIG & CHECK BOPS. & Water Shut offs. |
| 12¹⁵ | 6⁰⁰ | 17¾ | DRILL |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 1 | XSUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 22.00 | FT. |
| | TOTAL | 4842 | FT. |
| WT. OF STRING | 116,000 | | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 12 | 13 |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | R61XJ | R62BX |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 12 | 12 |
| SER. NO. | SE293 | ZL998 |
| DEPTH OUT | 4842 | 4842 |
| DEPTH IN | 4776 | 4842 |
| TOTAL FTG. | 66 | 0 |
| TOTAL HR. RUN | 26½ | 12 |
| COND. OF BIT | B1-0 | new |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10:00 | | 3:00 |
| WEIGHT | 9.3 | | 9.3 |
| VISC.-SEC | 130 | | 134 |
| W.L.-C.C. | 4.0 | | 4.0 |
| FLTR. CK. | 2/32 | | 2/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Sink | Final | | |

DRILLER: Ken Halladay

FOOTAGE

| FROM | TO | DRILL RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4838 | 4842 | D | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|
| | 52 | 15 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 4842 | 1° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 6:00 | 8:15 | 2¼ | RIG SERVICE & CHECK B.O.P. |
| 8:15 | 9:45 | 1½ | DRILL 8¾ HOLE |
| 9:45 | 10:00 | ¼ | SURVEY at 4842 - 1° |
| 10:00 | 12:00 | 2 | HOIST BIT #12 |
| 12:00 | 1:45 | 1¾ | RUN IN WITH BIT #13 |
| 1:45 | 2:30 | ¾ | BREAK CIR. & REAM 7 FEET UNDER GUAGE HOLE |
| 2:30 | 4:00 | 1½ | DRILL 8¾ HOLE |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 46 | STANDS D.P. | 4334.41 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2¼ 6¼ I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUB XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 36.43 | FT. |
| | TOTAL | 4856.00 | FT. |
| WT. OF STRING | 116,000 | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 13 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | R62BX-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | ZL998 |
| DEPTH OUT | IN |
| DEPTH IN | 4842 |
| TOTAL FTG. | 14 |
| TOTAL HR. RUN | 9¼ |
| COND. OF BIT | DULL |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4⁰⁰ | 7⁰⁰ | 9⁰⁰ |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 130 | 135 | 130 |
| W.L.-C.C. | 4.0 | 4.0 | 3.6 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No-Sink | 1 Gal | | |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DRILL RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4842 | 4856 | 14 | |

| FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|
| | 38 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK B.O.P. & BOARD CHECK |
| 4:15 | 12⁰⁰ | 7¾ | DRILL 8¾ HOLE |
| | | | (B.O.P. CHECK) |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 27 DATE MARCH 14 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORNMACK LAKE #2

WELL NO. 2 FIELD OR DIST. CORNMACK LAKE #2 COUNTY S. MACKENZIE STATE N.W.T

DRLG LIC #410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 19 SIZE 4½

TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Quipp

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | D375 | 16 |
| 2 | EMSCO | D375 | 16 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 715' | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 2½ | 7¼ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ½ | | |
| TRIPS | 4½ | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 6 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 45 | STANDS D.P. | 4239.18 | FT. |
| 1 | SINGLES D.P. | 31.45 | FT. |
| 11 | D.C. 2¼ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 19.77 | FT. |
| | TOTAL | 4778.5 | FT. |

WT. OF STRING 111,000 LBS.

| BIT RECORD | | |
|---|---|---|
| BIT NO. | 11 | 12 |
| SIZE | 8¾ | 8¾ |
| MFG. | HW | HW |
| TYPE | XSC | J33 |
| NOZZLE NO. | 3 | 3 1 |
| NOZZLE SIZE | 12 | 12 12 |
| SER. NO. | 147 | SB293 |
| DEPTH OUT | 4776 | 4778 |
| DEPTH IN | 4729 | 4776 |
| TOTAL FTG. | 47 | 2 |
| TOTAL HR. RUN | 17 | 1/2 |
| COND. OF BIT | 3-1-1 | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 12.00 | T | 7.00 |
| WEIGHT | 9.2 | R | 9.2 |
| VISC.-SEC | 120 | I | 110 |
| W.L.-C.C. | 3.4 | P | 3.6 |
| FL.TR. CK. | 2/32 | | 2/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO-STICK | 16 Gal. | | |

DRILLER Mark Dowl.

FOOTAGE 7 — DR—D RM—R CORE—C

| FROM | TO | | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4771 | 4778 | 7 | | | 30 | 30 | 1000 | 5½ | 54 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | R.S. SER |
| 12.15 | 1.15 | 1 | DRILLING 8¾" HOLE |
| 1.15 | 2.00 | ¾ | CIRC. SAMPLE |
| 2.00 | 4.00 | 2 | HOIST R.T. # 11 |
| 4.00 | 6.00 | 2 | RIH W/ R.T. #12 |
| 6.00 | 6.15 | ¼ | BREAK CIRC. |
| 6.15 | | | DRILLING. |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 45 | STANDS D.P. | 4239.98 | FT. |
| 1 | SINGLES D.P. | 31.58 | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 39.28 | FT. |
| | TOTAL | 4797 | FT. |

WT. OF STRING 116,000 LBS.

| BIT RECORD | | |
|---|---|---|
| BIT NO. | 12 | |
| SIZE | 8¾ | |
| MFG. | H.W. | |
| TYPE | R61X-J | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | SB293 | |
| DEPTH OUT | IN | |
| DEPTH IN | 4776 | |
| TOTAL FTG. | 21 | |
| TOTAL HR. RUN | 9½ | |
| COND. OF BIT | DULL | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 9.00 | 12.00 | 5.00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 133 | 131 | 129 |
| W.L.-C.C. | 4.4 | 4.4 | 4.0 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal. | Soda Ash | 200 # |
| CMC. | 50 # | | |
| CAUSTIC | 50 # | | |

DRILLER L. Pinchuk

FOOTAGE — DR—D RM—R CORE—C

| FROM | TO | | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4778 | 4797 | 19 | | | 30 | 35 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG & CHECK BOPS. |
| 8.15 | 4.00 | 7¾ | DRILL |

(CHECKED FILE EXTINGO)

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 45 | STANDS D.P. | 4239.98 | FT. |
| 2 | SINGLES D.P. | 62.88 | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 29 | FT. |
| | TOTAL | 4816 | FT. |

WT. OF STRING 116,000 LBS.

| BIT RECORD | | |
|---|---|---|
| BIT NO. | 12 | |
| SIZE | 8¾ | |
| MFG. | HW | |
| TYPE | R61X-J | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | SB293 | |
| DEPTH OUT | 4816 | |
| DEPTH IN | 4776 | |
| TOTAL FTG. | 40 | |
| TOTAL HR. RUN | 7¼ | |
| COND. OF BIT | RUNNING | |
| REAMER NO. | | |
| REAMER TYPE | | |

| MUD RECORD | | | |
|---|---|---|---|
| TIME | 6.00 | 12.00 | 5.00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 132 | 130 | 129 |
| W.L.-C.C. | 3.8 | 3.8 | 4.0 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.6 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal. | | |

DRILLER B. Hathaway

FOOTAGE 19 — DR—D RM—R CORE—C

| FROM | TO | | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P CON'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4797 | 4816 | D | 12 | | 34 | 35 | 1000 | 5½ | 58 | | | SAND - 84 |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | RIG SERVICE & CHECK BOPS. |
| 4.15 | 12.00 | 7¾ | DRILL 8¾ HOLE |
| | | | 8 |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 27 DATE MARCH 14 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORNACK LAKE #2

DEPT LIC #410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. / SIZE: 4½

TOOL JOINT 6¼ O.D. TYPE THD. XH

WELL NO. 2 | FIELD OR DIST. CORNACK LAKE #2 | COUNTY LINCOLN | STATE N.W.T.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Grupp

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | D-500 | 16 |
| 2 | EMSCO | D-500 | 16 |
| 3 | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 2½ | 7¼ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ½ | | |
| TRIPS | 1½ | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 4 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

//

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 7/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 47 | STANDS D.P. | 4239.18 FT. |
| 1 | SINGLES D.P. | 31.58 FT. |
| 11 | D.C. 2 2/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 19.77 FT. |
| | TOTAL | 4778.5 FT. |

WT. OF STRING 111 M LBS.

### BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 11 | 12 | |
| SIZE | 8¾ | 8¾ | |
| MFG. | HW | HW | |
| TYPE | X3SJ | J3 | |
| NOZZLE NO. | 3 | 3 | 1 |
| NOZZLE SIZE | 12 | 12 | 3/4 |
| SER. NO. | 18-7M | SB293 | |
| DEPTH OUT | 4796 | 4778 | |
| DEPTH IN | 4779 | 4796 | |
| TOTAL FTG. | 17 | 2 | |
| TOTAL HR. RUN | 17 | 1¾ | |
| COND. OF BIT | 3-1-1 | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12 M | T | 7⁰⁰ |
| WEIGHT | 9.2 | R | 9.2 |
| VISC.-SEC | 120 | I | 110 |
| W.L.-C.C. | 3½ | P | 3.6 |
| FLTR. CK. | 2/32 | | 2/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 1 GAL. | | |

DRILLER Mark Dowl

### FOOTAGE 1

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4771 | 4778 | 7 | | | 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 1.15 | 1 | DRILLING 8¾" HOLE |
| 1.15 | 2.00 | ¾ | CIRC SAMPLE |
| 2.00 | 4.00 | 2 | HOIST BIT # 11 |
| 4.00 | 6.00 | 2 | K.D. AND E.T #12 |
| 6.00 | 6.15 | ¼ | BREAK CIRC. |
| 6.15 | 12.00 | 5¾ | DRILLING. |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 4234.98 FT. |
| 1 | SINGLES D.P. | 31.58 FT. |
| 16 | D.C. 2 2/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 39.28 FT. |
| | TOTAL | 4797 FT. |

WT. OF STRING 116,000 LBS.

### BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 12 | | |
| SIZE | 8¾ | | |
| MFG. | H.W. | | |
| TYPE | R61X-J | | |
| NOZZLE NO. | 3 | | |
| NOZZLE SIZE | 12 | | |
| SER. NO. | SB293 | | |
| DEPTH OUT | IN | | |
| DEPTH IN | 4776 | | |
| TOTAL FTG. | 21 | | |
| TOTAL HR. RUN | 9½ | | |
| COND. OF BIT | DULL | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9⁰⁰ | 12⁰⁰ | 5⁰⁰ |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 133 | 131 | 129 |
| W.L.-C.C. | 4.4 | 4.4 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal. | Soda Ash | 200 # |
| CMC | 50 # | | |
| Caustic | 50 # | | |

DRILLER L. Bouchard

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4778 | 4797 | 19 | | | 30 | 35 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8⁰⁰ | 8¹⁵ | ¼ | SER. RIG & CHECK BOPS. |
| 8¹⁵ | 4⁰⁰ | 7¾ | DRILL |

(CHECKED FILE E. Vitko)

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 4239.98 FT. |
| 2 | SINGLES D.P. | 62.88 FT. |
| 16 | D.C. 2 2/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 28 FT. |
| | TOTAL | 4816 FT. |

WT. OF STRING 116,000 LBS.

### BIT RECORD

| | | | |
|---|---|---|---|
| BIT NO. | 12 | | |
| SIZE | 8¾ | | |
| MFG. | HW | | |
| TYPE | R61X-J | | |
| NOZZLE NO. | 3 | | |
| NOZZLE SIZE | 12 | | |
| SER. NO. | SB293 | | |
| DEPTH OUT | 4816 | | |
| DEPTH IN | 4776 | | |
| TOTAL FTG. | 40 | | |
| TOTAL HR. RUN | 7¼ | | |
| COND. OF BIT | RUNNING | | |
| REAMER NO. | | | |
| REAMER TYPE | | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6.00 | 12.00 | 6.00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 132 | 130 | 127 |
| W.L.-C.C. | 3.8 | 3.8 | 4.0 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |

DRILLER D. Galloway

### FOOTAGE 19

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4797 | 4816 | D | 12 | | 34 | 35 | 1000 | 5½ | 58 | STAND | BY | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK B.O.P. |
| 4:15 | 12.00 | 7¾ | DRILL 8¾ HOLE |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 26 DATE MARCH 13TH

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE #2

DRLG LIC #910

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY CANADA STATE ALTA

DRILL PIPE STRING NO. 4½ SIZE TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Cruff

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Holladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | D-5 | 16 |
| 2. | EMSCO | D-5 | 12 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 745 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 4½ | 7¼ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | ¼ | |
| TRIPS | 3¼ | ¼ | |
| LUBRICATE RIG | ¼ | ¼ | ½ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH 2939

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS 4190

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 44½ | STANDS D.P. | 4147.82 FT. |
| 2 | SINGLES D.P. | 62.46 FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.45 FT. |
| | BIT OR C.B. | FT. |
| 1 | JUNK SUB | 2.10 FT. |
| | KELLY DOWN | 30.00 FT. |
| | TOTAL | 4729. FT. |

WT. OF STRING 116 M. LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 10 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | RG7XJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 432788726 |
| DEPTH OUT | 4729 |
| DEPTH IN | 4705 4729 |
| TOTAL FTG. | 24 |
| TOTAL HR. RUN | 9½ |
| COND. OF BIT | T I I |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | |
|---|---|---|
| TIME | 12 noon | 2 a.m. |
| WEIGHT | 9.2 | 9.2 |
| VISC.-SEC | 120 | 120 |
| W.L.-C.C. | 3.4 | 3.4 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NOSTIC | | | |

DRILLER Mike Hall

### FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4715 | 4729 | K4 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-DBL.-P.A.P.-E.P. COMP'D-C |
|---|---|---|---|---|---|---|---|
| 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 noon | 12.15 | ¼ | RIG SER. - CHECK MOTOR & UNIT BELTS |
| 12.15 | 4.45 | 4¼ | DRILLING 8¾ HOLE |
| 4.45 | 5.00 | ¼ | TRIP FOR BIT |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 423.98 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| 1 | J. SUB | 2.10 FT. |
| | KELLY DOWN | 21.76 FT. |
| | TOTAL | 4749.00 FT. |

WT. OF STRING 116 M LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 11 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XSSR |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 14726 |
| DEPTH OUT | 4771 |
| DEPTH IN | 4729 |
| TOTAL FTG. | 20 |
| TOTAL HR. RUN | 7¼ |
| COND. OF BIT | 2A16. |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 10.00 | 10.00 | 3.00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 130 | 119 | 112 |
| W.L.-C.C. | 3.8 | 3.8 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Caustic | 50# | | |
| No Sink | 1 gal. | | |
| C.M.C. | 50# | | |

DRILLER L. Pinder

### FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4729 | 4749 | 20 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-DBL.-P.A.P.-E.P. COMP'D-C |
|---|---|---|---|---|---|---|---|
| 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.30 | ½ | TRIP |
| 8.30 | 8.45 | ¼ | CHECK BOPS SER. R.G. |
| 8.45 | 8.50 | ¼ | WORK JUNK SUB. |
| 8.50 | 4.00 | 7¼ | DRILL |

(No Fill)

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 45 | STANDS D.P. | 423.98 FT. |
| 1 | SINGLES D.P. | 31.58 FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| 1 | SUB | 2.10 FT. |
| | KELLY DOWN | 21.02 FT. |
| | TOTAL | 4771 FT. |

WT. OF STRING 116,000 LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 11 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XSSR |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 14726 |
| DEPTH OUT | 4771 |
| DEPTH IN | 4729 |
| TOTAL FTG. | 42 |
| TOTAL HR. RUN | 15 |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6.00 | 8.00 | 10.00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 103 | 106 | 120 |
| W.L.-C.C. | 3.8 | 3.8 | 3.9 |
| FLTR. CK | 2/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Nostic | 1 bl | | |
| Gel | 1000# | | |
| Over | 1 bl | | |

DRILLER [illegible]

### FOOTAGE 22

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. |
|---|---|---|---|
| 4749 | 4771 | D | 11 |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-DBL.-P.A.P.-E.P. COMP'D-C |
|---|---|---|---|---|---|---|---|
| 34 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | RIG SERVICE + CHECK BOPS |
| 4.15 | 11.00 | 7¼ | DRILL 8¾ HOLE |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 25 DATE Nov. 11, 1970

OPERATOR

LEASE Cutbank Lake #2 Pouce Coupe Field

CONTRACTOR Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 1

WELL NO. 2 FIELD OR DIST. Cutbank Lake COUNTY Peace River STATE Alta.

SIGNATURE OF OPERATOR'S REPRESENTATIVE L. E. Crump

SIGNATURE OF CONTRACTOR'S TOOL PUSHER Hugh Halladay

DRILL PIPE STRING: NO. — SIZE 4½ — TOOL JOINT O.D. — TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | Emsco | D375 | 12 |
| 2 | Emsco | D375 | 12 |
| 3 | | | |

| | SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|---|
| LAST CASING | 11 3/4 | | | 28 | | | 714 | |
| TUBING | | | | | | | | |
| OR LINER | | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MIDN. | DAY | EVE. |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 3 | 11½ | 5 |
| REAMING | | ¼ | ½ |
| CONDITIONING MUD & CIRCULATING | | 1¼ | |
| TRIPS | 4¼ | 3¼ | 1½ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¼ | ¼ | |
| TEST B.O.P. | | ¾ | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | ¾ | ½ | ¾ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

### TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

### WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/16

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 44 | STANDS D.P. | 4145.92 FT. |
| 1 | SINGLES D.P. | 30.95 FT. |
| 16 | D.C. 3 1/2 I.D. 6 1/4 O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| 1 | Swivel | 2.11 FT. |
| | KELLY DOWN | 35.67 FT. |
| | TOTAL | 4617.96 FT. |
| WT. OF STRING | 116 M | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 9 | |
| SIZE | 8¾ | |
| MFG. | SEC | |
| TYPE | H76 | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 411411 | |
| DEPTH OUT | 4699 | |
| DEPTH IN | 4664 | |
| TOTAL FTG. | 35 | |
| TOTAL HR. RUN | 9¾ | |
| COND. OF BIT | 7-2-2 | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12 noon | | T |
| WEIGHT | 9.2 | | R |
| VISC.-SEC | 115 | 114 | 1 |
| W.L.-C.C. | 3.6 | 2.1 | P |
| FLTR. CK. | 2/32 | 2/32 | |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Drispac | 1 lb. | | |
| | | | |
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN S—S PARTEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4631 | 4699 | D | | | 35 | 30 | 1050 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 4699 DEV. 2½ DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 noon | 12:15 | ¼ | Rig Service |
| 12:15 | 3:15 | 3 | Drilling |
| 3:15 | 3:30 | ¼ | Rig Service & Install Rotating Head |
| 3:30 | 5:30 | 2 | Pull out of Hole |
| 5:30 | 5:45 | ¼ | Rig Service & Trip Tools |
| 5:45 | 7:45 | 2 | Run in with Bit #9 |
| 7:45 | 8:00 | ¼ | Break Circ. |
| 8:00 | 12 mid. | 4 | Drilling |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 44 | STANDS D.P. | 4145.92 FT. |
| 2 | SINGLES D.P. | 62.40 FT. |
| 16 | D.C. I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 35.67 FT. |
| | TOTAL | 4680.65 FT. |
| WT. OF STRING | 116 M | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 9 | 11 |
| SIZE | 8¾ | 8¾ |
| MFG. | SEC | HW |
| TYPE | H76 | RB-7X3 |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 12 | 12 |
| SER. NO. | 411411 | 11020 |
| DEPTH OUT | 4699 | 4705 |
| DEPTH IN | 4664 | 4699 |
| TOTAL FTG. | 35 | 6 |
| TOTAL HR. RUN | 9¾ | 1½ |
| COND. OF BIT | 7-2-2 | 6-3-I |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9 a.m. | 11 a.m. | |
| WEIGHT | 9.1 | 9.2 | |
| VISC.-SEC | 109 | 112 | R |
| W.L.-C.C. | 3.8 | 3.6 | |
| FLTR. CK. | 2/32 | 2/32 | 1 |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | 1 |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN S—S PARTEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4699 | 4705 | 6 | | | 45 | 34 | 1050 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 4700 DEV. 2° DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | Check BOPs & Ser. Rig. |
| 8:15 | 8:30 | ¼ | Ream 4699 — 4699 (No Fill) |
| 8:30 | 8:45 | ¼ | Circ. & Work Junk Sub. |
| 8:45 | 9:00 | ¼ | Circ. |
| 9:00 | 10:30 | 1½ | Drill |
| 10:30 | 11:45 | 1¼ | Circ. Sample 4705 |
| 11:45 | 12:00 | ¼ | Survey @ 4700' = 2° |
| 12:00 | 3:30 | 3½ | Trip 3:30 - 4:00 Wait on Bit. |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 44 | STANDS D.P. | 4145.92 FT. |
| 2 | SINGLES D.P. | 62.40 FT. |
| 16 | D.C. I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 11.42 FT. |
| | TOTAL | 4705.00 FT. |
| WT. OF STRING | 116 M. | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 10 | |
| SIZE | 8¾ | |
| MFG. | HW | |
| TYPE | RB-7X3 | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 11020 | |
| DEPTH OUT | 4705 | |
| DEPTH IN | 4699 | |
| TOTAL FTG. | 6 | |
| TOTAL HR. RUN | 1½ | |
| COND. OF BIT | 6-3-I | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 8.00 | 12:00 | |
| WEIGHT | 9.2 | 9.2 | |
| VISC.-SEC | 120 | 116 | |
| W.L.-C.C. | 3.2 | 3.4 | |
| FLTR. CK. | 2/32 | 2/32 | |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Drispac | 1 lb. | | |
| | | | |
| | | | |

DRILLER

FOOTAGE 10

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN S—S PARTEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4705 | 4715 | D | 10 | | 30 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service & Check B.O.P. |
| 4:15 | 5:00 | ¾ | Wait on Bit |
| 5:00 | 6:30 | 1½ | Run in with Bit #10 |
| 6:30 | 7:00 | ½ | Break Circ. & Clean 5 Feet Fill |
| 7:00 | 12:00 | 5 | Drill 8¾" Hole |

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 24 DATE MARCH 11 1970

OPERATOR: SCURRY RAINBOW

LEASE: COLMACK LAKE #2

WELL NO. 2 FIELD OR DIST. COLMACK LAKE DRL-L.E. = 4m

COUNTY: CARIBOU STATE: N.W.T.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 12 SIZE 4½ TYPE THD. X H

TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lt. Smith

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DRS60 | 16 |
| 2 | EMSCO | D-5 | 16 |
| 3 | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 13⅜ | | | 26 | | | 795' | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7 | 4¾ | 6¼ |
| REAMING | | | ½ |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | 2¾ | 5½ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH 2934

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 44 | STANDS D.P. | 4145.92 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 6¼ I.D. O.D. | 474.59 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 32.92 FT. |
| | TOTAL | 4665.58 FT. |

WT. OF STRING 114 M LBS.

### BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 8 | |
| SIZE | 8¾ | |
| MFG. | REED | |
| TYPE | S6M | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | F5614 | |
| DEPTH OUT | 4664 | |
| DEPTH IN | 4587 | |
| TOTAL FTG. | 77 | |
| TOTAL HR. RUN | 17½ | |
| COND. OF BIT | DRILLING | |
| REAMER NO. | | |
| REAMER TYPE | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12:00 | 4:00 | 7:00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 110 | 110 | 115 |
| W.L.-C.C. | 3.4 | 3.4 | 3.4 |
| FLTR. CK. | 3/32 | 4/32 | 3/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| DOSTIK | 1 CAL. | | |

DRILLER: [illegible]

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4631 | 4645 | 14 | | | 30 | 32 | 1000 | 5½ | 58 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:45 | ¾ | RIG SER. + CHECK BOPS |
| 12:45 | 7:00 | 18¼ | DRILLING |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 44 | STANDS D.P. | 4145.92 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 6¼ I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 32.92 FT. |
| | TOTAL | 4664.00 FT. |

WT. OF STRING 114,000 LBS.

### BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 8 | 9 |
| SIZE | 8¾ | 8¾ |
| MFG. | REED | SEC |
| TYPE | S6M | M88 |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 12 | 12 |
| SER. NO. | F5614 | 250440 |
| DEPTH OUT | 4664 | |
| DEPTH IN | 4587 | 4587 |
| TOTAL FTG. | 77 | |
| TOTAL HR. RUN | 22¼ | |
| COND. OF BIT | 5-4-0 | |
| REAMER NO. | | |
| REAMER TYPE | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 18:00 | |
| WEIGHT | 9.2 | 9.2 | |
| VISC.-SEC | 116 | 119 | |
| W.L.-C.C. | 3.6 | 4.0 | |
| FLTR. CK. | 2/32 | 2/32 | 1 |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: [illegible]

### FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4650 | 4664 | 14 | | | 30 | 34 | 1000 | 5½ | 58 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. R.I. + CHECK BOPS. (OK) |
| 8:15 | 1:00 | 4¾ | DRILL |
| 1:00 | 3:00 | 2 | TRIP |
| 3:00 | 3:15 | ¼ | CHECK BLIND RAMS ck |
| 3:15 | 4:00 | ¾ | TRIP |

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 44 | STANDS D.P. | 4115.92 FT. |
| 1 | SINGLES D.P. | 30.95 FT. |
| 16 | D.C. 6¼ I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.10 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 30.00 FT. |
| | TOTAL | 4691 FT. |

WT. OF STRING 114,000 LBS.

### BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 9 | |
| SIZE | 8¾ | |
| MFG. | M88 | |
| TYPE | SEC. | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 250440 | |
| DEPTH OUT | 4691 | |
| DEPTH IN | 4664 | |
| TOTAL FTG. | 27 | |
| TOTAL HR. RUN | 6½ | |
| COND. OF BIT | RUNNING | |
| REAMER NO. | | |
| REAMER TYPE | | |

### MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.3 | 9.3 | 9.3 |
| VISC.-SEC | 120 | 118 | 122 |
| W.L.-C.C. | 3.4 | 3.6 | 3.6 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| DO STIK | 1 GAL | | |
| DESEL | 20 GAL | | |

DRILLER: Brian Galloway

### FOOTAGE 27

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4664 | 4691 | D | 9 | | 35 | 30 | 1050 | 5½ | 58 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SER. |
| 4:15 | 4:45 | ½ | FINISH IN WI BIT #9 |
| 4:45 | 5:15 | ½ | BREAK CIRC + REAM 8' UNDER GAGE HOLE. |
| 5:15 | 12:00 | 6¾ | DRILL 8¾" HOLE |

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 23 DATE MARCH 10 1970

DRILLING LIC #410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SCURRY RAINBOW | CORMACK LAKE #2 | 2 | CORMACK LK. | CANADA | NWT |

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd. | RIG NO. 9

DRILL PIPE STRING: NO. 4½ SIZE | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L.D. Dunlop

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: R. Joseph Halladay

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DASCO | 16 |
| 2 | EMSCO | DASCO | 16 |
| 3 | | | |

LAST CASING, TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 2 | 7½ |
| REAMING | 3½ | ½ | |
| CONDITIONING MUD & CIRCULATING | | ½ | |
| TRIPS | 3 | 3 | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | 1 | 1½ | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED 370

FEET CUT OFF 370

PRESENT LENGTH 2939

TON MI. OR TRIPS SINCE LAST CUT 37

CUMULATIVE TON MI. OR TRIPS 37

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | |
|---|---|---|
| 43 | STANDS D.P. | 4051.29 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS Xo O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 47 FT. |
| | TOTAL | 4 11. FT. |

WT. OF STRING 120 M LBS.

**BIT RECORD**

| | | |
|---|---|---|
| BIT NO. | [illegible] | 15 |
| SIZE | 8¾ | |
| MFG. | SEC | |
| TYPE | H7GJ | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 11 | |
| SER. NO. | 911030 | |
| DEPTH OUT | 4577 | |
| DEPTH IN | 4505 | |
| TOTAL FTG. | 72 | |
| TOTAL HR. RUN | 7½ | |
| COND. OF BIT | RUNNING | |
| REAMER NO. | | |
| REAMER TYPE | | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | | | 1:00 |
| WEIGHT | T | T | 9.2 |
| VISC.-SEC | R | R | 110 |
| W.L.-C.C. | 1 | 1 | 3.4 |
| FLTR. CK. | P | P | 2/32 |
| PH | | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 1 GAL. | | |

DRILLER Mark D Reid

**FOOTAGE**

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4505 | 4525 | D | | | 42 | 2 | 1500 | 5½ | 46 | | | |
| 4525 | 4577 | D | | | 65 | 2 | 1450 | 5½ | 41 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 4587 | 2° | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | SER |
| 12.15 | 1.15 | 1 | INSPECT BIT #7 |
| 1.15 | 3.15 | 2 | SLIP + CUT 49' DRILL LINE |
| 3.15 | 4.00 | ¾ | RUN IN W/ BIT #8 |
| 4.00 | 4.15 | ¼ | BREAK CIRC + |
| 4.15 | | ¾ | REAM UNDER GUAGE HOLE FROM 4505' |

## DAY TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | |
|---|---|---|
| 43 | STANDS D.P. | 4051.29 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS Xo O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| 1 | | FT. |
| | KELLY DOWN | 27.07 FT. |
| | TOTAL | 4595.00 FT. |

WT. OF STRING 110,M LBS.

**BIT RECORD**

| | | |
|---|---|---|
| BIT NO. | RR #5 | 8 |
| SIZE | 8¾ | 6¾ |
| MFG. | SMITH | REED |
| TYPE | R | SCM-J |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 11 | 11 |
| SER. NO. | 886786 | 56014 |
| DEPTH OUT | 4587 | |
| DEPTH IN | 4505 | 4587 |
| TOTAL FTG. | 77 | 8 |
| TOTAL HR. RUN | 4¼ | 2 |
| COND. OF BIT | 4-3-0 | D216 |
| REAMER NO. | | |
| REAMER TYPE | | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | | | 3:00 |
| WEIGHT | / | | 9.3 |
| VISC.-SEC | | | 140 |
| W.L.-C.C. | | | 4.0 |
| FLTR. CK. | | | 2/32 |
| PH | | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER [illegible]

**FOOTAGE**

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4587 | 4595 | 8 | | | 30 | 34 | 1600 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER RIG + BOPS CHECK (O.K.) |
| 8.15 | 8.45 | ½ | REAM 10' OF UNDER GUAGE HOLE TO BOTTOM |
| 8.45 | 10.45 | 2 | TRIP |
| 10.45 | 11.00 | ¼ | CHECK METER SHUT OFFS + KELLY VALVE (O.K.) |
| 11.00 | 12.30 | 1½ | SLIP 370' + CUT 370' DRILLING LINE |
| 12.30 | 1.30 | 1 | TRIP |
| 1.30 | 2.00 | ½ | BREAK CIRC. + CLEAN TO BOTTOM (NO FILL) |
| 2.00 | 4.00 | 2 | DRILL |

## EVENING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | |
|---|---|---|
| 43 | STANDS D.P. | FT. |
| 2 | SINGLES D.P. | 94.51 FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS Xo O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 22 FT. |
| | TOTAL | 4621 FT. |

WT. OF STRING 114,000 LBS.

**BIT RECORD**

| | | |
|---|---|---|
| BIT NO. | 8 | |
| SIZE | 8¾ | |
| MFG. | REED | |
| TYPE | SCM-J | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 11 | |
| SER. NO. | 56014 | |
| DEPTH OUT | 4621 | |
| DEPTH IN | 4587 | |
| TOTAL FTG. | 34 | |
| TOTAL HR. RUN | 9¾ | |
| COND. OF BIT | RUNNING | |
| REAMER NO. | | |
| REAMER TYPE | | |

**MUD RECORD**

| | | | |
|---|---|---|---|
| TIME | 6.00 | 8.00 | 10:00 |
| WEIGHT | 1.2 | 1.2 | 9.3 |
| VISC.-SEC | 130 | 130 | 130 |
| W.L.-C.C. | 4.4 | 4.6 | 4.6 |
| FLTR. CK | | | 2/32 |
| PH | 9.0 | 9.0 | 9.0 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GOOD ASH | 300 | | |
| NO STIK | 1 GAL | | |

DRILLER [illegible]

**FOOTAGE 26**

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4595 | 4621 | D | | | 30 | 34 | 1000 | 5½ | 58 | STA | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE + CHECK BOPS |
| 4:15 | 11:00 | 7¾ | DRILL 8¾" HOLE |

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 22 DATE MARCH 9

OPERATOR: SCURRY RAINBOW

LEASE: CUNNINGHAM #2

DRLG. LIC # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 | FIELD OR DIST. CUNNINGHAM LEASE | COUNTY [illegible] | STATE N. M.

DRILL PIPE STRING NO. 4 SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. L. Halliday

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA 500 | 16 |
| 2 | EMSCO | DA 500 | 11 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 11 3/4 | | | 21 | | | 715 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 11½ | 11½ | 5½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | 1 |
| TRIPS | | | ¼ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | ¼ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | ½ | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1⅛

FEET SLIPPED [illegible]

FEET CUT OFF [illegible]

PRESENT LENGTH 3358

TON MI. OR TRIPS SINCE LAST CUT 563

CUMULATIVE TON MI. OR TRIPS 3,732

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 42 | STANDS D.P. | 3745 FT. |
| 2 | SINGLES D.P. | 13.17 FT. |
| 16 | D.C. 2¼ I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.72 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 33.2 FT. |
| | TOTAL | 4532. FT. |

WT. OF STRING 120 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 7 |
| SIZE | 7⅞ |
| MFG. | HW |
| TYPE | X-5-RT |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 14179 |
| DEPTH OUT | 4538 |
| DEPTH IN | 4490 |
| TOTAL FTG. | 48 |
| TOTAL HR. RUN | 4½ |
| COND. OF BIT | D. [illegible] |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12⁰⁰ | 2⁰⁰ | 6⁰⁰ |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 103 | 95 | 90 |
| W.L.-C.C. | 4.2 | 4.4 | 4.4 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 16 GAL | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. |
|---|---|---|---|
| 4505 | 4538 | 33 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 50 | 24 | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 [illegible] | [illegible] | ¼ | RU [illegible] |
| 12:15 | 3:00 | 2¾ | DRILLING |
| 3:00 | 3:15 | ¼ | WORK ON CROWTHS |
| 3:15 | 9:00 | 5¾ | DRILLING |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 43 | STANDS D.P. | 4050.29 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 27.55 FT. |
| | TOTAL | 4564.00 FT. |

WT. OF STRING 110 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 7 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X-5-RT |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 16679 |
| DEPTH OUT | IN |
| DEPTH IN | 4490 |
| TOTAL FTG. | 74 |
| TOTAL HR. RUN | 20¼ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9⁰⁰ | 12⁰⁰ | 3⁰⁰ |
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 110 | 108 | 106 |
| W.L.-C.C. | 4.6 | 4.8 | 4.8 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| CMC | 100# | | |
| NO STICK | 1 GAL | | |
| CAUSTIC | 50# | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. |
|---|---|---|---|
| 4538 | 4564 | 26 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| DOLOMITE 55 | 34 | 1600 | 5½ | 55 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | ≈ | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8⁰⁰ | 8¹⁵ | ¼ | SER. RIG & CHECK BOPS (O.K.) |
| 8¹⁵ | 4⁰⁰ | 7¾ | DRILL |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | |
|---|---|---|
| 43 | STANDS D.P. | 4050.29 FT. |
| 1 | SINGLES D.P. | 31.78 FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 19.00 FT. |
| | TOTAL | 4587 FT. |

WT. OF STRING 110,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 7 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X-5-RT |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 16679 |
| DEPTH OUT | 4587 |
| DEPTH IN | 4490 |
| TOTAL FTG. | 97 |
| TOTAL HR. RUN | 26 |
| COND. OF BIT | 6 7 4-4 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6.00 | 8:00 | 10.00 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 107 | 98 | 94 |
| W.L.-C.C. | 3.2 | 3.4 | 3.8 |
| FL.TR. CK. | 1/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 1-1 | DV 69 | 1 GAL |
| GEL | 1000 | | |
| CMC | 4.50 | | |

DRILLER Brian Holloway

FOOTAGE 23

| FROM | TO | DR-D RM-R CORE-C | CORE NO. |
|---|---|---|---|
| 4564 | 4587 | | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 54 | 24 | 950 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK BOPS |
| 4:15 | 10:00 | 5¾ | DRILL 8¾" HOLE |
| 10:00 | 11:00 | 1 | CIRCULATE SAMPLE. |
| 11:00 | 11:15 | ¼ | PUMP SURVEY @ 4587 |
| 11:15 | 12:00 | ¾ | HOIST BIT #7 |

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT 21 REPORT NO. 21 DATE MARCH 1976

OPERATOR: SUNRAY DX-RIGHT

LEASE: CHINOOK LAKE

WELL NO. | FIELD OR DIST.: DRIFTING = 410 CHINOOK LAKE

COUNTY: CANADA

STATE: N.W.T.

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

DRILL PIPE STRING NO. 4½ SIZE | TOOL JOINT 6¼ O.D. | TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lee Smith

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Robert Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DB550 | 16 |
| 2 | EMSCO | D375 | 16 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 11¾ | | | 32 | | | 745 | |

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 11½ | 2¾ | 5¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 1 | 2½ |
| TRIPS | | 3¾ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 12 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.
NO. OF LINES 8 SIZE 1⅛
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 42 | STANDS D.P. | 3956.51 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2⅜ I.D. 6¼ O.D. | 474.45 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X-O O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | FT. |
| | TOTAL | 4441.51 FT. |

WT. OF STRING LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 6 | |
| SIZE | 8¾ | |
| MFG. | HW | |
| TYPE | X45RJ | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 3029 | |
| DEPTH OUT | 4490 | |
| DEPTH IN | 3994 | |
| TOTAL FTG. | 493 | |
| TOTAL HR. RUN | 83¾ | |
| COND. OF BIT | 2-2 | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 1900 | 2400 | 600 |
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 94 | 90 | 76 |
| W.L.-C.C. | 4.2 | 4.4 | 4.6 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 1 GAL | | |

DRILLER: Maurice Lapointe

FOOTAGE

| FROM | TO | DR. RM. CORE—C | CORE NO. |
|---|---|---|---|
| 4429 | 4472 | D | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|
| 54 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 | 12:15 | ¼ | RIG SER. & CHECK BOPS |
| 12:15 | 2 AM | 13¾ | DRILLING |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 42 | STANDS D.P. | 3956.51 FT. |
| 1 | SINGLES D.P. | 31.60 FT. |
| 16 | D.C. 2⅜ I.D. 6¼ O.D. | 474.21 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X-O O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 16.73 FT. |
| | TOTAL | 4490.00 FT. |

WT. OF STRING 110 M LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 6 | 7 |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | X45RJ | X45RJ |
| NOZZLE NO. | 3 | 3 |
| NOZZLE SIZE | 12 | 12 |
| SER. NO. | 2089 | 18679 |
| DEPTH OUT | 4490 | |
| DEPTH IN | 3984 | |
| TOTAL FTG. | 506 | |
| TOTAL HR. RUN | 91 | |
| COND. OF BIT | 5-5-0 | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 900 | 1200 |
| WEIGHT | 9.2 | 9.2 |
| VISC.-SEC | 108 | 112 |
| W.L.-C.C. | 4.6 | 4.4 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| P.MIC. | 50 # | CAUSTIC | 50 |
| CEL. | 1000 # | | |
| DV68 | 1 GAL | | |

DRILLER: R. Pinchuk

FOOTAGE

| FROM | TO | DR. RM. CORE—C | CORE NO. |
|---|---|---|---|
| 4482 | 4490 | C | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|
| 54 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 4490 | ½° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG & CHECK BOPS & CHECK KELLY VALVE |
| 8:15 | 11:00 | 2¾ | DRILL |
| 11:00 | 12:00 | 1 | CIRC. SAMPLE |
| 12:00 | 12:15 | ¼ | SURVEY @ 4490' = ½° |
| 12:15 | 4:00 | 3¾ | TRIP |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 42 | STANDS D.P. | 3956.51 FT. |
| 1 | SINGLES D.P. | 31.60 FT. |
| 16 | D.C. 2 1/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X-O O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 32.00 FT. |
| | TOTAL | 4505 FT. |

WT. OF STRING 110,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 7 | |
| SIZE | 8¾ | |
| MFG. | HW | |
| TYPE | X45RJ | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 18679 | |
| DEPTH OUT | 4505 | |
| DEPTH IN | 4490 | |
| TOTAL FTG. | 15 | |
| TOTAL HR. RUN | 5¼ | |
| COND. OF BIT | RUNNING | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 8:00 | 10:00 | 11:00 |
| WEIGHT | 9.1 | 9.2 | 9.1 |
| VISC.-SEC | 100 | 100 | 100 |
| W.L.-C.C. | 4.0 | 5.0 | 5.0 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO STICK | 1 GAL | | |
| DEFOAM | 10 GAL | | |

DRILLER: Norman Johnson

FOOTAGE 15

| FROM | TO | DR. RM. CORE—C | CORE NO. |
|---|---|---|---|
| 4490 | 4505 | D | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL—S PAR'EL—P COM'D—C |
|---|---|---|---|---|---|---|---|
| 54 | 30 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 6:45 | 2½ | (MUD NOT TREATED) BREAK CIRCULATION + CLEAN - 40 FEET FILL |
| 6:00 | 7:00 | 1 | FIX SER. |
| 6:45 | 12:00 | 5¼ | DRL. W/ 1 M.W. |

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 30 DATE March 7

OPERATOR: SCURRY RAINBOW

LEASE: GORMLEY UNIT

WELL NO. | FIELD OR DIST. | COUNTY | STATE: NEW MEX

DRLG CLK = 410

CONTRACTOR: **Jennings International Drilling** — A Division of Western Electronics & Engineering Ltd.

RIG NO. 7

DRILL PIPE STRING: NO. 4 SIZE — TOOL JOINT O.D. — TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lee Owens

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Keith Halladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7 | 7¼ | 7¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK | HRS. W/DP | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO. | NO. OF LINES 8 SIZE 1⅛ | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD | CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 40 | STANDS D.P. | 3768 FT. |
| 5 | SINGLES D.P. | 63.01 FT. |
| 16 | D.C. I.D. O.D. | 474½ FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 47.80 FT. |
| | TOTAL | 4357 FT. |

WT. OF STRING 110 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X55RJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4357 |
| DEPTH IN | 3984 |
| TOTAL FTG. | 373 |
| TOTAL HR. RUN | 65 |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 12⁰⁰ | 2⁰⁰ | 6⁰⁰ |
|---|---|---|---|
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 95 | 96 | 94 |
| W.L.-C.C. | 5.0 | 4.6 | 4.4 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.0 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Mil X. | 1 Gal. | | |

DRILLER: Thomas

FOOTAGE 373

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4316 | 4357 | | | | 55 | 30 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 4326 DEV. ½ | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 | 12 | ¼ | RIG SERVICE |
| 12 | 7 | 7 | DRILL |
| 7 | 8 | ¾ | SURVEY AT 4326 |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 41 | STANDS D.P. | 3862.79 FT. |
| 3 | SINGLES D.P. | 31.09 FT. |
| 16 | D.C. 2¼ 6¼ I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 17.96 FT. |
| | TOTAL | 4397.00 FT. |

WT. OF STRING 110 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X55RJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4397 |
| DEPTH IN | 3984 |
| TOTAL FTG. | 413 |
| TOTAL HR. RUN | 72¾ |
| COND. OF BIT | DULL |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 9⁰⁰ | 12⁰⁰ | 3⁰⁰ |
|---|---|---|---|
| WEIGHT | 9.2 | 9.3 | 9.2 |
| VISC.-SEC | 93 | 107 | 112 |
| W.L.-C.C. | 4.6 | 4.8 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal. | | |
| C.M.C. | 50# | | |
| Caustic | 50# | | |

DRILLER: Thomas

FOOTAGE

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4357 | 4397 | 40 | | DOLOMITE | 55 | 35 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG & CHECK BOPS & KELLY VALVE (OK) |
| 8:15 | 4:00 | 7¾ | DRILL |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 41 | STANDS D.P. | 3862.79 FT. |
| 2 | SINGLES D.P. | 62.17 FT. |
| 16 | D.C. 2¼ 6¼ I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.10 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.45 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 27.00 FT. |
| | TOTAL | 4439 FT. |

WT. OF STRING 110 000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | 55 RJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4439 |
| DEPTH IN | 3984 |
| TOTAL FTG. | 455 |
| TOTAL HR. RUN | 80½ |
| COND. OF BIT | DRILLING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 6:00 | 8:00 | 10:00 |
|---|---|---|---|
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 100 | 97 | 99 |
| W.L.-C.C. | 3.8 | 3.0 | 4.2 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No STICK | 1 gal. | | |

DRILLER: Owen Galloway

FOOTAGE 42

| FROM | TO | DR. RM. CORE | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4397 | 4439 | D | | | 54 | 34 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK B.O.P.s |
| 4:15 | 12:00 | 7¾ | DRILL 8¾ HOLE |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 19 DATE MARCH 6 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LK #2

DRLG. LIC # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY CANADA STATE N.W.T.

DRILL PIPE STRING NO. 43 SIZE — TOOL JOINT 6¼ O.D. TYPE THD. XH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Briggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Hullady

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7 | 17¼ | 17 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

**TIME SUMMARY (OFFICE USE ONLY)**

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

**WIRE LINE RECORD**

REEL NO.
NO. OF LINES 8 SIZE 1/16
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

## MORNING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | | |
|---|---|---|---|
| | STANDS D.P. | 37 | 7 FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2¾ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41.00 | FT. |
| | TOTAL | 4231.86 | FT. |

WT. OF STRING 105 M LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55RT |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4231 |
| DEPTH IN | 3981 |
| TOTAL FTG. | 250 |
| TOTAL HR. RUN | 42½ |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| TIME | | 4:00 | 6:00 |
|---|---|---|---|
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 87 | 95 | 95 |
| W.L.-C.C. | 4.4 | 4.2 | 4.2 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 GAL | | |

DRILLER Ralph Hullady

**FOOTAGE 42** DR-D RM-R CORE-C

| FROM | TO | | CORE NO. |
|---|---|---|---|
| 4189 | 4231 | 42 | |

**FORMATION (SHOW CORE RECOVERY)**

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 51 | 29 | 900 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 4168 | 1¼ | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 1.45 | 1¾ | DRILLING |
| 1.45 | 2.30 | ¾ | SURVEY AT 4168 AT 1¼ |
| 2.30 | 8 | 5½ | DRILLING |

## DAY TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | | |
|---|---|---|---|
| 40 | STANDS D.P. | 376 | 80 FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2¾ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 18.04 | FT. |
| | TOTAL | 4272 | FT. |

WT. OF STRING 105,000 LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X55R-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | IN |
| DEPTH IN | 3984 |
| TOTAL FTG. | 287 |
| TOTAL HR. RUN | 50¼ |
| COND. OF BIT | R |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| TIME | 9:00 | 12:00 | 3:00 |
|---|---|---|---|
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 83 | 82 | 81 |
| W.L.-C.C. | 4.4 | 3.8 | 4.0 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |
| GMC | 50# | | |
| Caustic | 50# | | |

DRILLER Ralph Hullady

**FOOTAGE** DR-D RM-R CORE-C

| FROM | TO | | CORE NO. |
|---|---|---|---|
| 4231 | 4272 | 41 | |

**FORMATION (SHOW CORE RECOVERY)**

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| Lime | | | | | | | |
| 55 | 30 | 950 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | REP. RIG & CHECK BOPS (K) |
| 8:15 | 4:00 | 7¾ | DRILL |

## EVENING TOUR

**DRILLING ASSEMBLY AT END OF TOUR**

| NO. | | | |
|---|---|---|---|
| 40 | STANDS D.P. | 376 | 40 FT. |
| 4 | SINGLES D.P. | 31.56 | FT. |
| 16 | D.C. 2¾ I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 23.00 | FT. |
| | TOTAL | 4318 | FT. |

WT. OF STRING 106,000 LBS.

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55RS |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | |
| DEPTH IN | 3984 |
| TOTAL FTG. | |
| TOTAL HR. RUN | 58 |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

**MUD RECORD**

| TIME | 6:00 | 8:00 | 10:00 |
|---|---|---|---|
| WEIGHT | 9.2 | 9.2 | 9.2 |
| VISC.-SEC | 86 | 89 | 90 |
| W.L.-C.C. | 4.2 | 4.8 | 5.0 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |
| GMC | 50# | | |

DRILLER Brian Hennessey

**FOOTAGE 95** DR-D RM-R CORE-C

| FROM | TO | | CORE NO. |
|---|---|---|---|
| 4272 | 4319 | D | |

**FORMATION (SHOW CORE RECOVERY)**

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 55 | 30 | 950 | 5½ | 58 | | | |

**DEVIATION RECORD**

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

**TIME LOG**

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE & CHECK B.O.P. |
| 4:15 | 12:00 | 7¾ | DRILL 8½ HOLE |

APPROVED APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 18 — DATE MARCH 5 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE # 2 — WELL NO. — FIELD OR DIST.: CORMACK LAKE — COUNTY: CANADA — STATE: N.W.T.

DRLG LIC # 410

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

DRILL PIPE STRING: NO. 4½ SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Tex Quigg

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. A. Hallaby

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2. | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 41 | | | 745 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MID. | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7½ | 7¾ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | ½ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.
NO. OF LINES 8 SIZE 7/16
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 39 | STANDS D.P. | 3479.83 | FT. |
| | SINGLES D.P. | | FT. |
| | D.C. I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | RMR. BODY O.D. | | FT. |
| | SUBS O.D. | 4.25 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41.00 | FT. |
| | TOTAL | 4105 | FT. |
| WT. OF STRING | 110M | | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | | 6 |
| SIZE | | 8¾ |
| MFG. | | HW |
| TYPE | | X55RJ |
| NOZZLE NO. | | 3 |
| NOZZLE SIZE | | 12 |
| SER. NO. | | 2089 |
| DEPTH OUT | | 4105 |
| DEPTH IN | | 3984 |
| TOTAL FTG. | | 121 |
| TOTAL HR. RUN | | 20¾ |
| COND. OF BIT | | RUNNING |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12m | 3p | 10:00 |
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 98 | 95 | 101 |
| W.L.-C.C. | 4.6 | 4.6 | 4.4 |
| FLTR. CK. | 2/32 | 2/32 | 4/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 ℔ | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4055 | 4105 | 47 | | | 50 | 29 | 1000 | 5½ | 52 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12m | 12:45 | ¾ | R.[illegible] [illegible] M.T. [illegible] |
| 12:45 | [illegible] | 9¼ | Dr[illegible] |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 38 | STANDS D.P. | 3479.83 | FT. |
| 2 | SINGLES D.P. | 62.84 | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 20.17 | FT. |
| | TOTAL | 4148.00 | FT. |
| WT. OF STRING | 105M | | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | | 6 |
| SIZE | | 8¾ |
| MFG. | | H.W. |
| TYPE | | X55RJ |
| NOZZLE NO. | | 3 |
| NOZZLE SIZE | | 12 |
| SER. NO. | | 2089 |
| DEPTH OUT | | IN |
| DEPTH IN | | 3984 |
| TOTAL FTG. | | 164 |
| TOTAL HR. RUN | | 28¼ |
| COND. OF BIT | | Good |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | 12:00 | 3:00 |
| WEIGHT | 9.1 | 9.2 | 9.1 |
| VISC.-SEC | 80 | 81 | 80 |
| W.L.-C.C. | 4.6 | 4.4 | 4.6 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |
| Caustic | 50# | | |
| C.M.C. | 50# | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4105 | 4148 | 43 | | | 50 | 28 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG & CHECK BOPS. OK |
| 8:15 | 4:00 | 7¾ | DRILL |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 39 | STANDS D.P. | 3675.21 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 30.00 | FT. |
| | TOTAL | 4189 | FT. |
| WT. OF STRING | 105M | | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | | 6 |
| SIZE | | 8¾ |
| MFG. | | HW |
| TYPE | | X55RJ |
| NOZZLE NO. | | 3 |
| NOZZLE SIZE | | 12 |
| SER. NO. | | 2089 |
| DEPTH OUT | | 4189 |
| DEPTH IN | | 3984 |
| TOTAL FTG. | | 205 |
| TOTAL HR. RUN | | 35½ |
| COND. OF BIT | | RUNNING |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 90 | 87 | 82 |
| W.L.-C.C. | 4.6 | 4.6 | 4.4 |
| FLTR. CK. | 1/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | Caustic | 50# |
| DUB8 | 2 ℔ | | |
| GEL | 100 | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4148 | 4189 | | | | 52 | 29 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | RIG SERVICE + CHECK BOPS + KELLY COCK |
| 4:15 | 8:00 | 3¾ | DRILL 8¾" HOLE |
| 8:00 | 8:30 | ½ | SURVEY + WIRE LINE TOO SHORT. |
| 8:30 | 12:00 | 3½ | DRILL 8¾" HOLE |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 17 DATE MARCH 4 19 70

OPERATOR: [illegible]

LEASE: [illegible]

WELL NO. | FIELD OR DIST. | COUNTY | STATE

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J. Lyn Holladay

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | Emsco | DE 500 | 16 |
| 2. | Emsco | D 375 | 11 |
| 3. | | | |

LAST CASING / TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 13 3/8 | | | 21 | | | 714 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 5 | 7½ |
| REAMING | ¼ | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | 2¾ | 2 | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¼ | | |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | ¼ | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | 1¼ | ½ | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/6

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. 37

| | | |
|---|---|---|
| STANDS D.P. | 348.44 | FT. |
| SINGLES D.P. | | FT. |
| D.C. I.D. O.D. | 1794 | FT. |
| D.C. I.D. O.D. | | FT. |
| STB. BODY O.D. | | FT. |
| STB. BODY O.D. | | FT. |
| RMR. BODY O.D. | | FT. |
| SUBS O.D. | 4.94 | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | | FT. |
| TOTAL | | FT. |

WT. OF STRING 10 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | Reed |
| TYPE | SHRS |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | K5748 |
| DEPTH OUT | 3954 |
| DEPTH IN | 3924 |
| TOTAL FTG. | 30 |
| TOTAL HR. RUN | 11¼ |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | |
|---|---|
| TIME | 12:00 |
| WEIGHT | 9.0 |
| VISC.-SEC | 90 |
| W.L.-C.C. | 4.4 |
| FLTR. CK. | 2/32 |
| PH | 9.5 |
| SD. CONT. % | |
| PRESSURE GRADIENT | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: Mr. Lyn

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3970 | 3954 | 24 | | | 54 | 14 | 1000 | 6 | 54 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | 1½° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 00 | 12 15 | ¼ | Rig Service |
| 12 15 | 2 45 | 2½ | Repair Blower & Change Out 12¼ Bit |
| 2 45 | 3 15 | ½ | Slip & Cut Drlg. Line — Pull 4 Std. |
| 3 15 | 6 00 | 2¾ | Trip In Hole |
| 6 00 | 7 15 | 1¼ | Break Down Code #2 |
| 7 15 | 7 30 | ¼ | Repair Flat |
| 7 30 | 8 00 | ½ | Drill 3954 to 3970 |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. 37

| | | |
|---|---|---|
| STANDS D.P. | 2485.44 | FT. |
| SINGLES D.P. | | FT. |
| D.C. 16 2 7/16 6¼ I.D. O.D. | 474.51 | FT. |
| D.C. I.D. O.D. | | FT. |
| 1 STB. BODY O.D. | 5.70 | FT. |
| STB. BODY O.D. | | FT. |
| RMR. BODY O.D. | | FT. |
| 2 SUBS O.D. | 4.95 | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | 37.40 | FT. |
| TOTAL | 4008.00 | FT. |

WT. OF STRING 102,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 6 | |
| SIZE | 8¾ | |
| MFG. | Hughes | |
| TYPE | X3A | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | | |
| DEPTH OUT | IN | |
| DEPTH IN | 3984 | |
| TOTAL FTG. | 24 | |
| TOTAL HR. RUN | 5 | |
| COND. OF BIT | DRLG. | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 1 | 10:00 | 3:00 |
| WEIGHT | | 9.1 | 9.1 |
| VISC.-SEC | R | 106 | 97 |
| W.L.-C.C. | | 4.0 | 4.0 |
| FLTR. CK. | | P 2/32 | 2/32 |
| PH | | P 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| Gel. | 1200 # | Caustic | 50 # |
| No Stick | 1 gal | C.M.C. | 50 # |
| DV 68 | 1 gal | | |

DRILLER: L. Pinder

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3954 | 4008 | 24 | | | 45 | 30 | 900 | 6 | 54 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8 00 | 8 15 | ¼ | See Rig Service & Check Kelly Valve. |
| 8 15 | 8 30 | ¼ | Check Blind Rams & Pipe Rams (ok) |
| 8 30 | 10 30 | 2 | Trip Rat Hole Stab. 60' off Bottom |
| 10 30 | 11 00 | ½ | Clean 93' to Bottom |
| 11 00 | 4 00 | 5 | Drill |

Check Kelly Safety Valve Leaks Check (ok)
Check Nuts on Bolts Adjustment Necessary

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. 37

| | | |
|---|---|---|
| STANDS D.P. | | FT. |
| SINGLES D.P. | 35.20 | FT. |
| D.C. 16 2 7/16 6¼ I.D. O.D. | 474.51 | FT. |
| D.C. I.D. O.D. | | FT. |
| 1 STB. BODY O.D. | 5.70 | FT. |
| STB. BODY O.D. | | FT. |
| RMR. BODY O.D. | | FT. |
| 2 SUBS O.D. | 4.95 | FT. |
| BIT OR C.B. | | FT. |
| | | FT. |
| KELLY DOWN | 25 | FT. |
| TOTAL | 4050 | FT. |

WT. OF STRING 102 000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 6 | |
| SIZE | 8¾ | |
| MFG. | Hughes | |
| TYPE | X3A | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 12 | |
| SER. NO. | 204923 | |
| DEPTH OUT | 4008 | |
| DEPTH IN | 3984 | |
| TOTAL FTG. | 24 | |
| TOTAL HR. RUN | 17¾ | |
| COND. OF BIT | DRLG | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 98 | 100 | 99 |
| W.L.-C.C. | 4.6 | 4.6 | 4.6 |
| FLTR. CK | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER: L. Pinder / Mr. Lyn

FOOTAGE 50

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE | PUMP NO. 2 S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4008 | 4058 | D | | | 50 | 30 | 900 | 6 | 54 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4 00 | 4 15 | ¼ | Rig Service + Check BOP. |
| 4 15 | 11 00 | 7¾ | Drill 58' Hole |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 16 — DATE MARCH 3 1976

OPERATOR: Scurry Rain Inc. — LEASE: Cormack Lake — WELL NO. — FIELD OR DIST. Cormack Lake — COUNTY — STATE NWT — DRLG Lic #410

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible] — SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ken Halladay

DRILL PIPE STRING: NO. — SIZE — TOOL JOINT O.D. — TYPE THD. X H

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA-500 | 12 |
| 2. | EMSCO | DA-500 | 12 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 13 3/8 | | | | | | 1145 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 11 1/2 | 7 1/4 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 3 | |
| TRIPS | 4 | 4 | 1 |
| LUBRICATE RIG | | | |
| DEVIATION SURVEY | | 1/4 | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | 1/4 | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | 8 | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK; HRS. W/DP; HRS. WO/DP; HRS. STANDBY; TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.; NO. OF LINES 8 SIZE 1 1/2; FEET SLIPPED; FEET CUT OFF; PRESENT LENGTH; TON MI. OR TRIPS SINCE LAST CUT; CUMULATIVE TON MI. OR TRIPS; NO. OF DAYS FROM SPUD; CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | [illegible] FT. |
| 1 | SINGLES D.P. | 35 [illegible] 81 FT. |
| | D.C. [illegible] I.D. O.D. | 5370.81 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | 4 7/8 FT. |
| | BIT OR C.B. | 12 1/4 FT. |
| | | FT. |
| | KELLY DOWN | 41.98 FT. |
| | TOTAL | 5 [illegible] 9.01 FT. |

WT. OF STRING 102,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 2TC |
| SIZE | 8 3/4 x 3 |
| MFG. | NEEDHAM |
| TYPE | |
| NOZZLE NO. | 1 |
| NOZZLE SIZE | |
| SER. NO. | 11-69 |
| DEPTH OUT | 3924 |
| DEPTH IN | 3734 |
| TOTAL FTG. | 60 |
| TOTAL HR. RUN | 13 1/4 |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12:00 | 3:00 | 6:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 65 | 62 | 63 |
| W.L.-C.C. | 4.6 | 4.4 | 4.8 |
| FLTR. CK. | 1/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCLS PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3753 | 3784 | 31 | | | 80 | | 1400 | 5 1/2 | 52 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | 1/4 | R.S.R. |
| 12:15 | 7:30 | 7 1/4 | CORING |
| 7:30 | 8:00 | 1/2 | PULL CORE LOOSE + HOIST |
| | | 8 | |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3384.86 FT. |
| 1 | SINGLES D.P. | 31.53 FT. |
| 16 | D.C. 6 2/16 I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 28.20 FT. |
| | TOTAL | 3930.00 FT. |

WT. OF STRING 102,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8 3/4 |
| MFG. | REED |
| TYPE | S46J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 855743 |
| DEPTH OUT | |
| DEPTH IN | 3924 |
| TOTAL FTG. | 6 |
| TOTAL HR. RUN | 1 1/2 |
| COND. OF BIT | RMR |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | | 3:00 |
| WEIGHT | 1 | | 9.2 |
| VISC.-SEC | 2 | | 71 |
| W.L.-C.C. | | | 5.0 |
| FLTR. CK. | | 2 | 4/32 |
| PH | | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| CMC | 50 | No Sink | 1 gal. |
| GEL | 600# | CAUSIC | 50# |
| DV65 | 1 gal. | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCLS PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3924 | 3930 | 6 | | REAMING RAT HOLE | 65 1/2 | 1 cons | 1/2 | 58 | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | 1/4 | SER. RIG. (CHECK LINE IN BRAKE, BLOCKS O.K.) |
| 8:15 | 9:15 | 1 | TRIP |
| 9:15 | 10:15 | 1 | RECOVER CORE #2 |
| 10:15 | 12:15 | 2 | W.O. ORDERS |
| 12:15 | 12:30 | 1/4 | CHECK BOPS (O.K.) CHECK MOTOR SHUTOFFS (O.K.) |
| 12:30 | 2:30 | 2 | TRIP IN CLEAN IB TO TOP OF RAT HOLE |
| 2:00 | 4:00 | 1 1/2 | REAMING 6 1/16 TO 8 3/4 - 3924 |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3753.17 FT. |
| 2 | SINGLES D.P. | FT. |
| 16 | D.C. 6 2/16 I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 31.00 FT. |
| | TOTAL | 3970 FT. |

WT. OF STRING 102,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8 3/4 |
| MFG. | REED |
| TYPE | S46J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 855743 |
| DEPTH OUT | |
| DEPTH IN | 3924 |
| TOTAL FTG. | 46 |
| TOTAL HR. RUN | 7 1/4 |
| COND. OF BIT | REAMING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 121 | 118 | 92 |
| W.L.-C.C. | 4.6 | 4.6 | 4.8 |
| FLTR. CK | 2/32 | 1/32 | 1/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 400 | H2O | 180 BBLS |
| DV65 | 1 gal. | | |
| CMC | 100 | | |

DRILLER Brian Halladay

FOOTAGE 40

| FROM | TO | DR.D RM.R CORE.C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCLS PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3930 | 3970 | RM | | | 54 | 17 | 1000 | 5 1/2 | 59 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | 1/4 | RIG SERVICE + CHECK B.O.P.s |
| 4:15 | 12:00 | 7 3/4 | REAMING 6 1/16 TO 8 3/4 |
| | | 8 | |

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 15 DATE MARCH 7

DRLG LIC = 410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SCURRY RAIN. RAW | CUNNIAGHAM LEASE | | | | N.M. |

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 1

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Bob. Holladay

DRILL PIPE STRING: NO. 45 SIZE — TYPE THD. XH — TOOL JOINT O.D. 6 1/4

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA 5x8 | 16 |
| 2 | EMSCO | DA 5x8 | 16 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 21 | | | 775 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 14 | |
| REAMING | 1/2 | | |
| CONDITIONING MUD & CIRCULATING | | 1 3/4 | |
| TRIPS | 4 1/2 | 3 3/4 | 1 1/2 |
| LUBRICATE RIG | 1/2 | 1/4 | 1/2 |
| DEVIATION SURVEY | | 1/4 | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | 6 |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | 1/2 | 1 1/2 | 1/2 |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 6 | 8 | 10 |

### TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

### WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1 1/3

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| | STANDS D.P. | 3294 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 7 1/4 I.D. 2 1/2 O.D. 6 1/4 | 491 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 3 | SUBS O.D. 7 3/4 | 7.00 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 39.25 | FT. |
| | TOTAL | 3291.25 | FT. |
| | WT. OF STRING | | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8 3/4 |
| MFG. | SEC |
| TYPE | H76J |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 911020 |
| DEPTH OUT | 3294 |
| DEPTH IN | 2914 |
| TOTAL FTG. | 380 |
| TOTAL HR. RUN | 7 |
| COND. OF BIT | 1-1 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | | 6:00 |
| WEIGHT | | | 9.2 |
| VISC.-SEC | | | 90 |
| W.L.-C.C. | | | 4.8 |
| FLTR. CK. | | | 2/32 |
| PH | | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Mauri Lyons

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3294 | 3293 | 0 | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | 1/4 | RIG SER |
| 12.15 | 2.30 | 2 1/4 | W.O.T. [illegible] #1 |
| 2.30 | 5.00 | 2 1/2 | REAM [illegible] #1 |
| 5.00 | 5.15 | 1/4 | BREAK CIRC |
| 5.15 | | 3/4 | TAG RATHOLE + REAM 14' 5" TO BOT |
| | | | |

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 2393.98 | FT. |
| 1 | SINGLES D.P. | 31.60 | FT. |
| 16 | D.C. 2 7/16 I.D. 6 1/4 O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| 1 | S. Sub | 2.10 | FT. |
| | KELLY DOWN | 19.65 | FT. |
| | TOTAL | 3926.84 | FT. |
| | WT. OF STRING | 99,000 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8 3/4 |
| MFG. | SEC. |
| TYPE | H76J |
| NOZZLE NO. | 2 11 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 911020 |
| DEPTH OUT | 3924 |
| DEPTH IN | 3914 |
| TOTAL FTG. | 10 |
| TOTAL HR. RUN | 3 |
| COND. OF BIT | 1-1 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9:00 | | 12:00 |
| WEIGHT | 9.2 | | 9.2 |
| VISC.-SEC | 73 | | 76 |
| W.L.-C.C. | 4.8 | | 4.6 |
| FLTR. CK. | 2/32 | | 2/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 12 sx | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3922 | 3923 | 1 | DRR | | | | | | | | | |
| 3923 | 3924 | 1 | DRR | | 85 | 12 | 1000 | 5 1/2 | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3920 | 2° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | 1/4 | SER. RIG |
| 8:15 | 8:30 | 1/4 | DRILL |
| 8:30 | 9:15 | 3/4 | CIRC. 3924 SAMPLE |
| 9:15 | 10:30 | 1 1/4 | TRIP OUT TO CORE. DUMMY TRIP 10 STANDS |
| 10:30 | 10:45 | 1/4 | CLEAN 43' OF SLIPPING HOLE TO BOTTOM 3881 to 3924 |
| 10:45 | 11:45 | 1 | CIRC. HOLE CLEAN & WORK JUNK SUB. |
| 11:45 | 12:00 | 1/4 | SURVEY @ 3920 = 2° |
| 12:00 | 2:30 | 2 1/2 | TRIP TRAP OUT. 2:30 4:00 SER. CORE BBLS. |

(BOARD 3924.68 / S.L.M. 3925.20 / DIFF. -1.12 / NO CORRECTION MADE)

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3721.81 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 7/16 I.D. 6 1/4 O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | 77.95 | FT. |
| | | | FT. |
| | KELLY DOWN | 10.00 | FT. |
| | TOTAL | | FT. |
| | WT. OF STRING | 102,000 | LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | CORE #2 |
| SIZE | 6 3/16 |
| MFG. | LINES DRILL |
| TYPE | D |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | 11-67 |
| DEPTH OUT | 3953 |
| DEPTH IN | 3924 |
| TOTAL FTG. | 29 |
| TOTAL HR. RUN | 6 |
| COND. OF BIT | CORE #2 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 8:00 | | 10:00 |
| WEIGHT | 9.2 | | 9.2 |
| VISC.-SEC | 90 | | 81 |
| W.L.-C.C. | 4.4 | | 4.4 |
| FLTR. CK | 2/32 | | 2/32 |
| PH | 9.5 | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Brian Holladay

FOOTAGE 29

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3924 | 3953 | C | 2 | | 80 | 5000 | 900 | 4 1/2 | 60 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | 1/4 | RIG SERVICE + CHECK B.O.P.s |
| 4:15 | 5:30 | 1 1/4 | RUN IN WITH CORE #2 |
| 5:30 | 6:00 | 1/2 | BREAK CIR + CIR PRIOR TO DROPPING BALL |
| 6:00 | 7:00 | 1 | CUT CORE #2 |

APPROVED — APPROVED

# DAILY DRILLING REPORT

REPORT NO. 14 DATE MARCH 11

DRIG LIC = 410

| OPERATOR | LEASE | WELL NO. | FIELD OR DIST. | COUNTY | STATE |
|---|---|---|---|---|---|
| SCURRY RAINBOW. | CORBETT LK #2 | 2 | CORBETT LAKE | LEA | N.M.P. |

| CONTRACTOR | RIG NO. |
|---|---|
| Jennings International Drilling<br>A Division of Western Electronics & Engineering Ltd. | 9 |

| DRILL PIPE STRING NO. | DRILL PIPE STRING SIZE | TOOL JOINT | TYPE THD. |
|---|---|---|---|
| 4 | 4½ | 1 7/8 O.D. | X H. |

| SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S TOOL PUSHER |
|---|---|
| Pat Murphy | Ralph Holladay |

**PUMPS**

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DASCO | 16 |
| 2. | EMSCO | DASCO | 16 |
| 3. | | | |

**LAST CASING TUBING OR LINER**

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 4½ | 9½ | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 2¼ | |
| TRIPS | 3 hr. | 4½ | 2¾ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | 2½ |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ¼ | 2½ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES | SIZE |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| 34 | STANDS D.P. | 3392.82 FT. | BIT NO. | 3 |
| | SINGLES D.P. | FT. | SIZE | 8¾ |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 FT. | MFG. | H.W. |
| | D.C. I.D. O.D. | FT. | TYPE | XV-J |
| | STB. BODY O.D. | FT. | NOZZLE NO. | 1 2 |
| 1 | STB. BODY O.D. | 4.70 FT. | NOZZLE SIZE | 11 12 |
| | RMR. BODY O.D. | FT. | SER. NO. | 21233 |
| 2 | SUBS XO O.D. | 4.95 FT. | DEPTH OUT | 3911 |
| | BIT OR C.B. | FT. | DEPTH IN | 3894 |
| | | FT. | TOTAL FTG. | 17 |
| | KELLY DOWN | 31.00 FT. | TOTAL HR. RUN | 4¾ |
| | TOTAL | 3909 FT. | COND. OF BIT | DULL |
| WT. OF STRING | 96 M | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | | |
|---|---|---|
| TIME | 4.00 | 6.00 |
| WEIGHT | 9.1 | 9.2 |
| VISC.-SEC | 76 | 72 |
| W.L.-C.C. | 4.4 | 4.4 |
| FLTR. CK. | 7/32 | 7/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Richard Reed

**FOOTAGE 17**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P COMP'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3892 | 3894 | 2 | | | 120 | 14 | 1200 | 5½ | 55 | | | |
| 3894 | 3909 | 15 | | | 120 | 20 | 1200 | 5½ | 55 | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 2.15 | 2 | RIG UP WIRE LINE UNIT #3 |
| 2.15 | 2.30 | ¼ | PICK UP 1 SINGLE |
| 2.30 | 3.15 | ¾ | BREAK CIRC. TAG FILL @ 3892 FT = 30' |
| 3.15 | 8.00 | 4¾ | DRILLING |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| 36 | STANDS D.P. | 3392.82 FT. | BIT NO. | 3 |
| | SINGLES D.P. | FT. | SIZE | 8¾ |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 FT. | MFG. | H.W. |
| | D.C. I.D. O.D. | FT. | TYPE | XV-J |
| 1 | STB. BODY O.D. | 5.70 FT. | NOZZLE NO. | 3 |
| | STB. BODY O.D. | FT. | NOZZLE SIZE | 12 |
| | RMR. BODY O.D. | FT. | SER. NO. | 21233 |
| 2 | SUBS XO O.D. | 4.95 FT. | DEPTH OUT | 3914 |
| | BIT OR C.B. | FT. | DEPTH IN | 3892 |
| | | FT. | TOTAL FTG. | 22 |
| | KELLY DOWN | 37.00 FT. | TOTAL HR. RUN | 5¼ |
| | TOTAL | 3914 FT. | COND. OF BIT | I-1-0 |
| WT. OF STRING | 98,000 | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | | |
|---|---|---|
| TIME | 9.00 | 12.00 |
| WEIGHT | 9.3 | 9.3 |
| VISC.-SEC | 65 | 77 |
| W.L.-C.C. | 4.8 | 4.6 |
| FLTR. CK. | 3/32 | 3/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 1400 | CAUSTIC | 50# |
| NO STICK | 1 GAL | DV 68 | 1 GAL |
| CMC | 50# | | |

DRILLER [illegible]

**FOOTAGE**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P COMP'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3909 | 3914 | 5 | | | 85 | 25/30 | 1000 | 5½ | 58 | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG & CHECK BOPS (O.K.) |
| 8.15 | 8.45 | ½ | DRILL |
| 8.45 | 10.00 | 1¼ | CIRC. SAMPLE & CONDITION MUD FOR CORING |
| 10.00 | 12.15 | 2¼ | TRIP TO 656' PRIOR TO CORING. |
| 12.15 | 1.30 | 1¼ | CIRC. & CONDITION HOLE |
| 1.30 | 3.45 | 2¼ | TRIP OUT TO CORE |
| 3.45 | 4.00 | ¼ | LAY DOWN STABILIZER = 70' |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | BIT RECORD | |
|---|---|---|---|---|
| 35 | STANDS D.P. | FT. | BIT NO. | CORE #1 |
| 2 | SINGLES D.P. | 3360.43 FT. | SIZE | 6¾ |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 FT. | MFG. | NESDRILL |
| | D.C. I.D. O.D. | FT. | TYPE | O |
| | STB. BODY O.D. | FT. | NOZZLE NO. | |
| | STB. BODY O.D. | FT. | NOZZLE SIZE | |
| | RMR. BODY O.D. | FT. | SER. NO. | 11-59 |
| 2 | SUBS XO O.D. | 4.95 FT. | DEPTH OUT | 3924 |
| | BIT OR C.B. | 72.30 FT. | DEPTH IN | 3914 |
| | | FT. | TOTAL FTG. | 10 |
| | KELLY DOWN | 12.00 FT. | TOTAL HR. RUN | 2½ |
| | TOTAL | 3924 FT. | COND. OF BIT | Comp |
| WT. OF STRING | 98 M | LBS. | REAMER NO. | |
| | | | REAMER TYPE | |

**MUD RECORD**

| | | |
|---|---|---|
| TIME | 6:00 | 7:00 |
| WEIGHT | | |
| VISC.-SEC | | |
| W.L.-C.C. | | |
| FLTR. CK | | |
| PH | | |
| SD. CONT. % | | 1 |
| PRESSURE GRADIENT | | N |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Bill Jordan

**FOOTAGE 10**

| FROM | TO | DR—D RM—R CORE—C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.—S PAR'EL—P COMP'D—C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3914 | 3924 | C | 1 | | 80 | 8M | 900 | 5½ | 45 | | | |

| DEVIATION RECORD | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | RIG SERV. |
| 4.15 | 5.30 | 1¼ | PICK UP CORE BBL & SERVICE |
| 5.30 | 7.15 | 1¾ | RUN IN W/CORE BBL. (SLOWLY) |
| 7.15 | 8.00 | ¾ | BREAK CIRCULATION + CLEAN TO BOTTOM |
| 8.00 | 10.30 | 2½ | CUT CORE #1 |
| 10.30 | 11.00 | ½ | PULL CORE BBL OUT OFF PILOT HOLE (TITE) |
| 11.00 | 12.00 | 1 | HOIST CORE #1. |

APPROVED APPROVED

# DAILY DRILLING REPORT

REPORT NO. 13 DATE FEB 29/70

OPERATOR: SCURRY RAINBOW

LEASE: CURTIS LAKE

WELL NO: 2

FIELD OR DIST.: CURTIS LAKE

COUNTY: CANADA

STATE: NWT

DEC Lic #410

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO.: 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Schussler

DRILL PIPE STRING: NO. 2 SIZE 4½ TYPE THD. X H

TOOL JOINT O.D. 7

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA5 | 16 |
| 2. | EMSCO | DA5 | 11 |
| 3. | | | |

LAST CASING TUBING OR LINER: SIZE 10¾ | MAKE | WT. & GR. | NO. JOINTS 21 | FEET | RKB. TO CSG. HD. | SET AT 794' | REMARKS

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7½ | 11½ | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 2¼ | |
| TRIPS | | 3½ | 1¼ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | ½ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | 6 |
| FISHING | | | |

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

| TOTALS | 8 | 8 | 8 |
|---|---|---|---|

## TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 34 | STANDS D.P. | [illegible] FT. |
| 2 | SINGLES D.P. | 63.44 FT. |
| 16 | D.C. 2 7/8 FH 6¼ I.D. O.D. | 494 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN 39.00 | FT. |
| | TOTAL 3875 | FT. |

WT. OF STRING 75M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 3 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XIGT |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20534 |
| DEPTH OUT | 3875 |
| DEPTH IN | 2837 |
| TOTAL FTG. | 1038 |
| TOTAL HR. RUN | 55¾ |
| COND. OF BIT | DELG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 12:00 | 3:00 |
| WEIGHT | 9.1 | 9.1 |
| VISC.-SEC | 64 | 68 |
| W.L.-C.C. | 4.8 | 5.0 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 100# | | |
| QUEBRACHO | 1 gal | | |
| CMC | 10# | | |

DRILLER

FOOTAGE

| FROM | TO | DR. D RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. S PAR'L-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3776 | 3875 | 45 | | | 100 | 18 | 1100 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3790 | 1¼° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12:00 | 12:15 | ¼ | RIG SER. + CHECK KELLY COCK |
| 12:15 | 2:45 | 2½ | DRILLING |
| 2:45 | 3:15 | ½ | SURVEY @ 3790 |
| 3:15 | ROC | 4¾ | DRILLING |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3392.80 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/8 FH 6¼ I.D. O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN 14.00 | FT. |
| | TOTAL 3892.01 | FT. |

WT. OF STRING 98,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | 3 |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | X16-J | X[illegible]-J |
| NOZZLE NO. | 2 1 | 3 |
| NOZZLE SIZE | 12 11 | 12 |
| SER. NO. | 20338 | 21233 |
| DEPTH OUT | 3892 | |
| DEPTH IN | 2837 | 3892 |
| TOTAL FTG. | 1053 | |
| TOTAL HR. RUN | 57¼ | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 9:00 | 2:00 |
| WEIGHT | 9.1 | 9.1 |
| VISC.-SEC | 60 | 67 |
| W.L.-C.C. | 5.0 | 5.0 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | | |
| CMC | 50# | | |
| Caustic | 50# | | |

DRILLER [signature]

FOOTAGE

| FROM | TO | DR. D RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. S PAR'L-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3875 | 3892 | 17 | | SHALE | 140 | 18 | 1100 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3890 | 1½° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | SER. RIG & CHECK 4½ PIPE RAMS O.K. |
| 8:15 | 9:45 | 1½ | DRILL |
| 9:45 | 10:45 | 1 | CIRC. BOTTOM SAMPLE |
| 10:45 | 11:15 | ½ | SURVEY @ 3890 = 1½° (RE-BOTTOM OF HOLE CONTACT) |
| 11:15 | 1:45 | 2½ | MAKE 10 STAND DUMMY TRIP HOLE TIGHT |
| 1:45 | 3:00 | 1¼ | CIRC. HOLE CLEAN |
| 3:00 | 4:00 | 1 | TRIP FOR BIT |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3392.80 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/8 FH 6¼ I.D. O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN 14.00 | FT. |
| | TOTAL 3892 | FT. |

WT. OF STRING 98,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | 3 |
| SIZE | 8¾ | 8¾ |
| MFG. | HW | HW |
| TYPE | X16-J | X[illegible]-J |
| NOZZLE NO. | 2 1 | 3 |
| NOZZLE SIZE | 12 11 | 12 |
| SER. NO. | 20338 | 21233 |
| DEPTH OUT | 3892 | |
| DEPTH IN | 2839 | 3892 |
| TOTAL FTG. | 1053 | |
| TOTAL HR. RUN | 57¼ | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | |
|---|---|---|
| TIME | | |
| WEIGHT | 1 | |
| VISC.-SEC | K | |
| W.L.-C.C. | | |
| FLTR. CK | | |
| PH | | |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER [signature]

FOOTAGE

| FROM | TO | DR. D RM. R CORE C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. S PAR'L-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:30 | ½ | STRIP FOR BIT |
| 4:30 | 4:45 | ¼ | RIG SERVICE + CHECK B.O.P. [illegible] (OK) |
| 4:45 | 10:45 | 6 | WAIT FOR WELDER TO REPAIR ROTATES |
| 10:45 | 12:00 | 1¼ | HOIST BIT #2 |

APPROVED

APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT — REPORT NO. 18 — DATE MARCH 5 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE # 2 — WELL NO. 2 — FIELD OR DIST. CORMACK LAKE — DRLG Lic # 410

COUNTY: CANADA — STATE: N.W.T.

CONTRACTOR: Jennings International Drilling, A Division of Western Electronics & Engineering Ltd. — RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Griffith

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

DRILL PIPE STRING: NO. — SIZE 4½ — TOOL JOINT 6¼ O.D. — TYPE THD. X H

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA500 | 16 |
| 3 | | | |

LAST CASING, TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 21 | | | 795 | |

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7¾ | 7¾ | 7¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | ½ |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK
HRS. W/DP
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.
NO. OF RUNS — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE CAST
CUMULATIVE TON-MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 38 | STANDS D.P. | 3479.83 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. I.D. O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X/O O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 4105 FT. |

WT. OF STRING 105 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55R3 |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4105 |
| DEPTH IN | 3984 |
| TOTAL FTG. | 121 |
| TOTAL HR. RUN | 20½ |
| COND. OF BIT | RUNNING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 12⁰⁰ | 3⁰⁰ | 1:00 |
|---|---|---|---|
| WEIGHT | 9.1 | 9.2 | 9.2 |
| VISC.-SEC | 98 | 95 | 81 |
| W.L.-C.C. | 4.6 | 4.6 | 4.4 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 GAL. | | |

DRILLER: Maurice Pond

FOOTAGE 47

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PARCEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4058 | 4105 | 47 | | | 50 | 29 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 | 12.15 | ¼ | Rig Ser. + check motor Shut off ok's. |
| 12.15 | 8.30 | 7¾ | Drilling |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 38 | STANDS D.P. | 3479.83 FT. |
| 2 | SINGLES D.P. | 62.84 FT. |
| 16 | D.C. 2 2/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS X/O O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 20.17 FT. |
| | TOTAL | 4148.00 FT. |

WT. OF STRING 105 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X55RJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | IN |
| DEPTH IN | 3984 |
| TOTAL FTG. | 164 |
| TOTAL HR. RUN | 28¼ |
| COND. OF BIT | Grinding |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 9⁰⁰ | 12⁰⁰ | 3⁰⁰ |
|---|---|---|---|
| WEIGHT | 9.1 | 9.2 | 9.1 |
| VISC.-SEC | 80 | 81 | 80 |
| W.L.-C.C. | 4.6 | 4.4 | 4.6 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | Caustic | 50# |
| | | C.M.C. | 50# |

DRILLER: [illegible]

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PARCEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4105 | 4148 | 43 | | | 50 | 28 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8⁰⁰ | 8.15 | ¼ | Ser. Rig & check Bop's. ok |
| 8.15 | 4⁰⁰ | 7¾ | Drill |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 39 | STANDS D.P. | 3673.97 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 2/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | XO SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 30.00 FT. |
| | TOTAL | 4189 FT. |

WT. OF STRING 105 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 6 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X55R-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 2089 |
| DEPTH OUT | 4189 |
| DEPTH IN | 3984 |
| TOTAL FTG. | 205 |
| TOTAL HR. RUN | 35½ |
| COND. OF BIT | RUNNING DIR. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 6:00 | 8:00 | 10:00 |
|---|---|---|---|
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 90 | 87 | 82 |
| W.L.-C.C. | 4.6 | 4.6 | 4.4 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1 gal | Caustic | 50# |
| Gel | 100 | | |

DRILLER: Brian Halladay

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PARCEL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4148 | 4189 | | | | 52 | 29 | 900 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service + check B O P's + Kelly cock |
| 4:15 | 8:00 | 3¾ | Drill 8¾" hole |
| 8:00 | 8:30 | ½ | Survey, wire line too short. |
| 8:30 | 10:00 | 1½ | Drill 8¾" hole |

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 17 DATE MARCH 4 1970

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE

WELL NO. 2 FIELD OR DIST. CORMACK LAKE DRLG LIC # 410

COUNTY CANADA STATE N.W.T.

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Driggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

DRILL PIPE STRING: NO. 45 SIZE — TOOL JOINT 6 5/8 O.D. — TYPE THD. X H.

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA 500 | 16 |
| 2. | EMSCO | DA 500 | 16 |
| 3. | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 5 | 7 3/4 |
| REAMING | 2 | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | 2 1/2 | 2 | |
| LUBRICATE RIG | 1/4 | 1/4 | 1/4 |
| DEVIATION SURVEY | 1/4 | | |
| TEST B.O.P. | | 1/4 | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | 1/4 | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | 1 1/4 | 1/2 | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 37 | STANDS D.P. | 3485.44 | FT. |
| | SINGLES D.P. | | FT. |
| 11 | D.C. 6 1/4 I.D. O.D. | 474.45 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 20 | FT. |
| | TOTAL | 3984 | FT. |

WT. OF STRING 100 M LBS.

BIT RECORD: BIT NO. 5 — SIZE 8 3/4 — MFG. REED — TYPE SHGJ — NOZZLE NO. 3, SIZE 12 — SER. NO. 855745 — DEPTH OUT 3984 — DEPTH IN 3924 — TOTAL FTG. 60 — TOTAL HR. RUN 11 1/4 — COND. OF BIT T-2-WT — REAMER NO. — REAMER TYPE — DRILLER Mac

MUD RECORD

| | | | | |
|---|---|---|---|---|
| TIME | 1200 | | | |
| WEIGHT | 9.0 | | | |
| VISC.-SEC | 80 | | | |
| W.L.-C.C. | 4.4 | | | |
| FLTR. CK. | 2/32 | | | |
| PH | 9.5 | | | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3970 | 3984 | 14 | | | 54 | 14 | 1000 | 5 1/2 | 54 | | | |

DEVIATION RECORD: DEPTH 3984 DEV. 1 1/2 DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | 1/4 | RIG SERVICE |
| 12.15 | 2.15 | 2 | REAMING 6 3/4 TO 8 3/4. |
| 2.15 | 2.30 | 1/4 | SURVEY @ 3984 AT 1 1/2 |
| 2.30 | 6.00 | 3 1/2 | TRIP FOR BIT #5 |
| 6.00 | 7.15 | 1 1/4 | BREAK DOWN CORE BBL |
| 7.15 | 7.30 | 1/4 | REPAIR FLOAT |
| 7.30 | 8.00 | 1/2 | REPAIR 2ND GEAR CHAIN. |
| | | 8 | |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 37 | STANDS D.P. | 3485.44 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 6 1/4 I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 37.40 | FT. |
| | TOTAL | 4008.00 | FT. |

WT. OF STRING 102,000 LBS.

BIT RECORD: BIT NO. 6 — SIZE 8 3/4 — MFG. HW — TYPE X55R — NOZZLE NO. 3, SIZE 12 — SER. NO. 3089 — DEPTH OUT IN — DEPTH IN 3984 — TOTAL FTG. 24 — TOTAL HR. RUN 5 — COND. OF BIT DRLG. — REAMER NO. — REAMER TYPE — DRILLER

MUD RECORD

| | | | | |
|---|---|---|---|---|
| TIME | 1 | 100 | 300 | |
| WEIGHT | | 9.1 | 9.1 | |
| VISC.-SEC | R | 106 | 97 | |
| W.L.-C.C. | | 4.0 | 4.0 | |
| FLTR. CK. | | 2/32 | 2/32 | |
| PH | P | 9.5 | 9.5 | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |

MUD & CHEMICALS ADDED: Gel. 200# Caustic 50# / Soda Ash 1gal. Cmc. 50# / DV 68 1gal.

FOOTAGE

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3984 | 4008 | 24 | | | 45 | 30 | 900 | 5 1/2 | 58 | | | |

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | 1/4 | SER. RIG & CHECK KELLY VALVE |
| 8.15 | 8.30 | 1/4 | CHECK BLIND RAMS & PIPE RAMS ok |
| 8.30 | 10.30 | 2 | TRIP BACK INTO STUMP 60' OFF BOTTOM |
| 10.30 | 11.00 | 1/2 | CLEAN 23' TO BOTTOM |
| 11.00 | 4.00 | 5 | DRILL |

{CHECKED SOFTOP PUMPS ON RIG FLOOR ok}
{CHECKED HOUSEKEEPING ON RIG FLOOR ok}

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 37 | STANDS D.P. | | FT. |
| 0 | SINGLES D.P. | 3548.20 | FT. |
| 16 | D.C. 6 1/4 I.D. O.D. | 474.51 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 25 | FT. |
| | TOTAL | 4058 | FT. |

WT. OF STRING 102000 LBS.

BIT RECORD: BIT NO. 6 — SIZE 8 3/4 — MFG. HW — TYPE X55R — NOZZLE NO. 3, SIZE 12 — SER. NO. 3089 — DEPTH OUT 4058 — DEPTH IN 3984 — TOTAL FTG. 74 — TOTAL HR. RUN 12 3/4 — COND. OF BIT DRILLING — REAMER NO. — REAMER TYPE — DRILLER

MUD RECORD

| | | | | |
|---|---|---|---|---|
| TIME | 1:00 | 8:00 | 10:00 | |
| WEIGHT | 9.1 | 9.2 | 9.2 | |
| VISC.-SEC | 98 | 100 | 99 | |
| W.L.-C.C. | 4.6 | 4.6 | 4.6 | |
| FLTR. CK. | 1/32 | 2/32 | 2/32 | |
| PH | 9.5 | 9.5 | 9.5 | |
| SD. CONT. % | | | | |
| PRESSURE GRADIENT | | | | |

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

FOOTAGE 50

| FROM | TO | DR'D RM'R CORE'C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL.-S PAR'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4008 | 4058 | D | | | 50 | 30 | 900 | 5 1/2 | 58 | | | |

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | 1/4 | RIG SERVICE + CHECK B.O.P.S |
| 4.15 | 11.00 | 7 3/4 | DRILL 8 3/4 HOLE |
| | | 8 | |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 16 DATE MARCH 3 1970.

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK LAKE.

DRLG Lic = 410

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY CANADA STATE N.W.T

CONTRACTOR: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4½ SIZE TOOL JOINT 6¼ O.D. TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA500 | 16 |
| 2 | EMSCO | DA500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB-TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 24 | | | 795 | |
| | | | | | | | |
| | | | | | | | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | 11½ | 7½ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | ¾ | 3 | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | 1¼ | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | 8 | |
| FISHING | | | |

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

| TOTALS | 8 | 8 | 8 |
|---|---|---|---|

TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

## WIRE LINE RECORD

REEL NO.
NO. OF LINES 8 SIZE 1/16
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | [illegible] FT. |
| | SINGLES D.P. | [illegible] FT. |
| | D.C. 36 5½ | 3390.81 |
| | I.D. O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| | SUBS O.D. | 4.75 FT. |
| | BIT OR C.B. | 12.95 FT. |
| | | FT. |
| | KELLY DOWN | 41.00 FT. |
| | TOTAL | 3784.01 FT. |
| WT. OF STRING | | 102,000 LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 2RC |
| SIZE | 6 3/16 x 3½ |
| MFG. | NESDRILL |
| TYPE | |
| NOZZLE NO. | / |
| NOZZLE SIZE | |
| SER. NO. | 11-69 |
| DEPTH OUT | 3984 |
| DEPTH IN | 3924 |
| TOTAL FTG. | 60 |
| TOTAL HR. RUN | 13¼ |
| COND. OF BIT | |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 12 noon | 3 pm | 6 pm |
|---|---|---|---|
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 65 | 63 | 65 |
| W.L.-C.C. | 4.6 | 4.4 | 4.8 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Mac Young

FOOTAGE

| FROM | TO | DR'D RM'R CORE'D | CORE NO. |
|---|---|---|---|
| 3953 | 3984 | 31 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAN'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 80 | 2m | 950 | 5½ | 54 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12 noon | 12 15 | ¼ | Rig Service |
| 12 15 | 7.30 | 7¼ | Coring. |
| 7 30 | 8 00 | ½ | Pull Core Lose ¢ Hose |
| | | 8 | |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3390.81 FT. |
| 1 | SINGLES D.P. | 31.53 FT. |
| 16 | 2 DC 2 13/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | KELLY DOWN | 28.20 FT. |
| | TOTAL | 3930.00 FT. |
| WT. OF STRING | | 102,000 LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | REED |
| TYPE | S46J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 655743 |
| DEPTH OUT | |
| DEPTH IN | 3924 |
| TOTAL FTG. | 6 |
| TOTAL HR. RUN | 1½ |
| COND. OF BIT | RMR |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | / | | 3.00 |
|---|---|---|---|
| WEIGHT | 1 | | 9.2 |
| VISC.-SEC | 2 | | 71 |
| W.L.-C.C. | | | 5.0 |
| FLTR. CK. | 1 | 2 | 2/32 |
| PH | | | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| CMC | 50 | NO Stick | 1 gal. |
| GEL | 600# | CAUSTIC | 50# |
| DV68 | 1 gal. | | |

DRILLER [illegible]

FOOTAGE

| FROM | TO | DR'D RM'R CORE'D | CORE NO. |
|---|---|---|---|
| 3924 | 3930 | 6 | |

FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAN'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Reaming Rat Hole 6 5/16 1000 ½ 56

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8 00 | 8 15 | ¼ | Ser. Rig (Check Pins and Bents Blocks ok) |
| 8 15 | 9 15 | 1 | Trip |
| 9 15 | 10 15 | 1 | Recover Core # 2 |
| 10 15 | 12 15 | 2 | W.O. orders |
| 12 15 | 12 30 | ¼ | Check Boys (ok) Check Motor Shut offs (ok) |
| 12 30 | 2 30 | 2 | Trip In Clean 18' to Top of Rat Hole |
| 2 30 | 4 00 | 1½ | Reaming 6 3/16 To 8 ¾ in 3924 |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3453.77 FT. |
| 2 | SINGLES D.P. | FT. |
| 16 | 2 DC 2 13/16 I.D. 6¼ O.D. | 474.51 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | KELLY DOWN | 37.00 FT. |
| | TOTAL | 3470 FT. |
| WT. OF STRING | | 102,000 LBS. |

BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | REED |
| TYPE | SHGJ |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 855743 |
| DEPTH OUT | |
| DEPTH IN | 3924 |
| TOTAL FTG. | |
| TOTAL HR. RUN | 9¼ |
| COND. OF BIT | REAMING |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| TIME | 6:00 | 8:00 | 10:00 |
|---|---|---|---|
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 121 | 118 | 92 |
| W.L.-C.C. | 4.6 | 4.6 | 4.6 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 800# | $H_2O$ | 1 Barrel |
| DV68 | 1 gal. | | |
| CMC | 100# | | |

DRILLER Brian Ladbrooke

FOOTAGE 40

| FROM | TO | DR'D RM'R CORE'D | CORE NO. |
|---|---|---|---|
| 3930 | 3970 | RM | |

FORMATION: (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAN'EL-P COM'D-C |
|---|---|---|---|---|---|---|---|
| 54 | 14 | 1000 | 5½ | 59 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service + Check B.O.Ps |
| 4:15 | 11:00 | 7¾ | Reaming 6 3/16 To 8 ¾. |
| | | 8 | |

APPROVED

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 15 DATE MARCH 2

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE

WELL NO. 2 FIELD OR DIST. CORMACK L.K. DRLG LIC # 410

COUNTY CANADA STATE N.W.T.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4 SIZE 4½ TYPE THD. XH

TOOL JOINT 6¼ O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ted Griggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Halladay

## PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DA 500 | 16 |
| 2. | EMSCO | DA 500 | 16 |
| 3. | | | |

## LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | | ¼ | |
| REAMING | 2¾ | | |
| CONDITIONING MUD & CIRCULATING | | 1¾ | |
| TRIPS | 4½ | 3¾ | 1¼ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | ¼ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | 6 |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | ½ | P/B | ½ |
| FISHING | | | |
| COMPLETION WORK: A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3390.76 | FT. |
| 1 | SINGLES D.P. | 1.52 | FT. |
| 16 | 2 7/16 I.D. 6¼ O.D. | 481.96 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 3 | SUBS O.D. | 7.05 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 19.23 | FT. |
| | TOTAL | 3902.07 | FT. |

WT. OF STRING LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | SEC. |
| TYPE | H76J |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 911020 |
| DEPTH OUT | 3923 |
| DEPTH IN | 3914 |
| TOTAL FTG. | 9 |
| TOTAL HR. RUN | 1 3/4 |
| COND. OF BIT | 1-1 |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | |
|---|---|---|
| TIME | | 1600 |
| WEIGHT | | 9.2 |
| VISC.-SEC | | 90 |
| W.L.-C.C. | | 4.8 |
| FLTR. CK. | | 2/32 |
| PH | | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| AS STOCK | | | |

DRILLER Mark / Rick

### FOOTAGE

| FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 3914 | 3923 | D | |

### FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGLS PAR EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 120 | 5 | | | | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig Service |
| 12.15 | 2.30 | 2¼ | Hoist Core #1 |
| 2.30 | 3 | ½ | Recover Core #1 |
| 3 | 5.00 | 2 | Run in Hole to Ream w/ Junk Sub. |
| 5.00 | 5.15 | ¼ | Break Circ. |
| 5.15 | | 2¾ | Tag Rat Hole + Ream w/ 5" Core Bit |
| | | 6 | |

## DAY TOUR

### DRILLING ASSEMBLY AT END OF YOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3393.98 | FT. |
| 1 | SINGLES D.P. | 31.60 | FT. |
| 16 | D.P. 2 7/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| 1 | J. SUB | 2.10 | FT. |
| | KELLY DOWN | 19.65 | FT. |
| | TOTAL | 3924.84 | FT. |

WT. OF STRING 99,000 LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | 5 |
| SIZE | 8¾ |
| MFG. | SEC. |
| TYPE | H76J |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 911020 |
| DEPTH OUT (Ream) | 3924 |
| DEPTH IN (Drill) | 3914 |
| TOTAL FTG. | 10 |
| TOTAL HR. RUN | 3 |
| COND. OF BIT | 1-1 |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | |
|---|---|---|
| TIME | 900 | 1200 |
| WEIGHT | 9.2 | 9.2 |
| VISC.-SEC | 73 | 76 |
| W.L.-C.C. | 4 | 4.6 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 1200# | | |

DRILLER Dinhub

### FOOTAGE

| FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 3922 | 3923 | 1 | RMR |
| 3923 | 3924 | 1 | JSD |

### FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGLS PAR EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 85 | 10 | 1000 | 5½ | 58 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3920 | 2° | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8:00 | 8:15 | ¼ | Ser. Rig |
| 8:15 | 8:30 | ¼ | Drill |
| 8:30 | 9:15 | ¾ | Circ 3924. Sample |
| 9:15 | 10:30 | 1¼ | Trip out to Core. Dummy Trip to Stands |
| 10:30 | 10:45 | ¼ | Clean 43' of Stuffing Hole to Bottom 3881 to 3924' |
| 10:45 | 11:45 | 1 | Circ Hole Clean & work Junk Sub. |
| 11:45 | 12:00 | ¼ | Survey @ 3920 = 2° |
| 12:00 | 2:30 | 2½ | Trip Straight. 2:30 - 4:00 See Core #2 BLS. |

Board 3954.68
Slum. 3955.60
Diff. 1.12
No Correction Made

## EVENING TOUR

### DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3922.81 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | 72.95 | FT. |
| | | | FT. |
| | KELLY DOWN | 10.00 | FT. |
| | TOTAL | | FT. |

WT. OF STRING 102,000 LBS.

### BIT RECORD

| | |
|---|---|
| BIT NO. | CORE-2 |
| SIZE | 6 3/16 |
| MFG. | LINESDRILL |
| TYPE | D |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | 1-69 |
| DEPTH OUT | 3953 |
| DEPTH IN | 3924 |
| TOTAL FTG. | 29 |
| TOTAL HR. RUN | 6 |
| COND. OF BIT | CORE NO 6 |
| REAMER NO. | |
| REAMER TYPE | |

### MUD RECORD

| | | |
|---|---|---|
| TIME | 8:00 | 10:00 |
| WEIGHT | 9.2 | 9.2 |
| VISC.-SEC | 90 | 89 |
| W.L.-C.C. | 4.4 | 4.4 |
| FLTR. CK. | 2/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Brian Sadoway

### FOOTAGE 29

| FROM | TO | DR. RM. CORE | CORE NO. |
|---|---|---|---|
| 3924 | 3953 | C | 2 |

### FORMATION (SHOW CORE RECOVERY)

| ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. 1 LINER SIZE | PUMP NO. 1 S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGLS PAR EL-P COMP'D-C |
|---|---|---|---|---|---|---|---|
| 80 | 8000 | 950 | 5½ | 50 | | | |

### DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service + Check B.O.P.s |
| 4:15 | 5:30 | 1¼ | Run in with Core #2 |
| 5:30 | 6:00 | ½ | Break Cir. + Cir. Prior to Dropping Ball |
| 6:00 | 12:00 | 6 | Cut Core #2 |

APPROVED APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 14 DATE MARCH 1

DRLG LIC # 410

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK LK # 2

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY CANADA STATE NWT

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING NO. 4 SIZE 4½ TOOL JOINT 1 ¼ O.D. TYPE THD. X H.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ralph Holladay

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO | DAS-DD | 16 |
| 2. | EMSCO | DAS-DD | 16 |
| 3. | | | |

LAST CASING : TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 ¾ | | | 26 | | | 795' | |
| | | | | | | | |
| | | | | | | | |

## MORNING TOUR

TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 4 ¾ | 8 | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 2 ½ | |
| TRIPS | 3 ¾ | 4 ¼ | 2 ¾ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | | | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | 2 ½ | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ¼ | 2 ½ |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK
WT. W/DP
HRS. W/DP
HRS. STANDBY
TOTAL DAY WORK

WIRE LINE RECORD

REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3392.80 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6 ¼ O.D. | 474.58 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 31.00 FT. |
| | TOTAL | 3909 FT. |

WT. OF STRING 96 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 3 |
| SIZE | 8 ¾ |
| MFG. | H.W. |
| TYPE | XV-J |
| NOZZLE NO. | 1 2 |
| NOZZLE SIZE | 11 12 |
| SER. NO. | 21233 |
| DEPTH OUT | 3909 |
| DEPTH IN | 3893 |
| TOTAL FTG. | 17 |
| TOTAL HR. RUN | 4 ¾ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 4.00 | 6.00 |
| WEIGHT | 9.1 | 9.2 |
| VISC.-SEC | 76 | 72 |
| W.L.-C.C. | 4.4 | 4.4 |
| FL.TR. CK. | 3/32 | 2/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Mark Rind.

FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAR.EL.-P COM'D.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3892 | 3894 | 2 | | | 120 | 14M | 1000 | 5½ | 58 | | | |
| 3894 | 3909 | 15 | | | 120 | 20M | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 2.15 | 2 | RUN IN HOLE W/ BIT #3 |
| 2.15 | 2.30 | ¼ | PICK UP 4 SINGLES |
| 2.30 | 3.15 | ¾ | BREAK CIRC & CLEAN TO BTM 20' |
| 3.15 | 8.00 | 4 ¾ | DRILLING |
| | | 8 | |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 36 | STANDS D.P. | 3392.80 FT. |
| | SINGLES D.P. | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| 1 | STB. BODY O.D. | 5.70 FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | FT. |
| | | FT. |
| | KELLY DOWN | 3.00 FT. |
| | TOTAL | 3914 FT. |

WT. OF STRING 98,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 3 |
| SIZE | 8 ¾ |
| MFG. | H.W. |
| TYPE | XV-J |
| NOZZLE NO. | 3 |
| NOZZLE SIZE | 12 |
| SER. NO. | 21233 |
| DEPTH OUT | 3914 |
| DEPTH IN | 3892 |
| TOTAL FTG. | 22 |
| TOTAL HR. RUN | 5¼ |
| COND. OF BIT | I-I-O |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 9.00 | 12.00 |
| WEIGHT | 9.3 | 9.3 |
| VISC.-SEC | 65 | 77 |
| W.L.-C.C. | 4.8 | 4.6 |
| FL.TR. CK. | 3/32 | 3/32 |
| PH | 9.5 | 9.5 |
| SD. CONT. % | | |
| PRESSURE GRADIENT | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 1400 | CAUSTIC | 50# |
| No Stick | 1 GAL | DV 68 | 1 GAL |
| CMC | 50# | | |

DRILLER Leon Quinlet

FOOTAGE

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAR.EL.-P COM'D.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3909 | 3914 | 5 | | | 85 | 25/30M | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | SER. RIG & CHECK BOPS (O.K.) |
| 8.15 | 8.45 | ½ | DRILL |
| 8.45 | 10.00 | 1 ¼ | SURV. SAMPLE & CONDITION MUD FOR CORING |
| 10.00 | 12.15 | 2 ¼ | TRIP TO CSG. PRIOR TO CORING |
| 12.15 | 1.30 | 1 ¼ | CIRC & CONDITION HOLE |
| 1.30 | 3.45 | 2 ¼ | TRIP OUT TO CORE |
| 3.45 | 4.00 | ¼ | LAY DOWN STABILIZER 5.70' |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | |
|---|---|---|
| 35 | STANDS D.P. | FT. |
| 2 | SINGLES D.P. | 3360.43 FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 FT. |
| | D.C. I.D. O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | STB. BODY O.D. | FT. |
| | RMR. BODY O.D. | FT. |
| 2 | SUBS XO O.D. | 4.95 FT. |
| | BIT OR C.B. | 72.30 FT. |
| | | FT. |
| | KELLY DOWN | 12.00 FT. |
| | TOTAL | 3924 FT. |

WT. OF STRING 98,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | CORE #1 |
| SIZE | 6 3/16 |
| MFG. | NES DRILL |
| TYPE | O |
| NOZZLE NO. | |
| NOZZLE SIZE | |
| SER. NO. | 11-69 |
| DEPTH OUT | 3924 |
| DEPTH IN | 3914 |
| TOTAL FTG. | 10 |
| TOTAL HR. RUN | 2 ½ |
| COND. OF BIT | 5 000 |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | |
|---|---|---|
| TIME | 6:00 | 8:00 000 |
| WEIGHT | 1 | |
| VISC.-SEC | A | |
| W.L.-C.C. | 1 | |
| FL.TR. CK | P | |
| PH | P | |
| SD. CONT. % | 1 | |
| PRESSURE GRADIENT | NG | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER Brian Anderson

FOOTAGE 10

| FROM | TO | DR.-D RM.-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL.-S PAR.EL.-P COM'D.-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3914 | 3924 | C | 1 | | 80 | 8M | 900 | 5½ | 45 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | RIG SERV |
| 4.15 | 5.30 | 1 ¼ | PICK UP CORE BBL & SERVICE |
| 5.30 | 7.15 | 1 ¾ | RUN IN W/CORE BBL. (SLOW IN) |
| 7.15 | 8.00 | ¾ | BREAK CIRCULATION + CLEAN TO BOTTOM |
| 8.00 | 10.30 | 2 ½ | CUT CORE #1 |
| 10.30 | 11.00 | ½ | PULL CORE BBL OUT OFF PILOT HOLE (TITE) |
| 11.00 | 12.00 | 1 | HOIST CORE #1 |
| | | 8 | |

APPROVED — APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 13 DATE FEB 28/70

DRLG LIC #410

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE

WELL NO. 2 | FIELD OR DIST. CORMACK LAKE | COUNTY CANADA | STATE N.W.T.

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Les Gregg

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lukasewich

DRILL PIPE STRING: SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. X H.

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | EMSCO. | DA500 | 16 |
| 2. | EMSCO. | DA500 | 16. |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10¾ | | | 26 | | | 795' | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7¼ | 11½ | |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | 2¼ | |
| TRIPS | | 3½ | 1¾ |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | ½ | |
| TEST B.O.P. | | | |
| CUT OFF DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | 6 |
| FISHING | | | |

COMPLETION WORK: A. PERFORATING; B. TUBING TRIPS; C. SWABBING; D. TESTING; E. ADDITIONAL

TOTALS 8 8 8

## TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 35 | STANDS D.P. | [illegible] | FT. |
| 2 | SINGLES D.P. | 63.45 | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.10 | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 39.00 | FT. |
| | TOTAL | 3875. | FT. |

WT. OF STRING 95 M LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | X1GJ |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3875' |
| DEPTH IN | 2839 |
| TOTAL FTG. | 1036 |
| TOTAL HR. RUN | 55¾ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12 00 | 3:00 | 6.00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 64 | 68 | 63 |
| W.L.-C.C. | 4.8 | 5.0 | 50 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 700# | | |
| OVG8 | 1gal | | |
| C.M.C. | 100# | | |

DRILLER

FOOTAGE 99

| FROM | TO | DR. D RM. R CORE C. |
|---|---|---|
| 3776 | 3824 | 48 |
| 3824 | 3875 | 51 |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL-S PAR-EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 20 | 1100 | 5½ | 58 | | | |
| | | 110 | 18 | 1100 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3790 DEV. 1¼°

| DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|
| | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER + CHECK KELLY COCK |
| 12.15 | 2.45 | 2½ | DRILLING |
| 2.45 | 3.15 | ½ | SURVEY AT 3790 |
| 3.15 | 8.00 | 4¾ | DRILLING |
| | | 8 | |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3392.80 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 14.00 | FT. |
| | TOTAL | 3892.01 | FT. |

WT. OF STRING 98,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | 3 |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | X16-J | XV-J |
| NOZZLE NO. | 2 1 | 3 |
| NOZZLE SIZE | 12 11 | 12 |
| SER. NO. | 20338 | 21233 |
| DEPTH OUT | 3892 | |
| DEPTH IN | 2839 | 3892 |
| TOTAL FTG. | 1053 | |
| TOTAL HR. RUN | 57¼ | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9 00 | 2 00 | |
| WEIGHT | 9.1 | 9.1 | |
| VISC.-SEC | 60 | 67 | |
| W.L.-C.C. | 5.0 | 5.0 | |
| FLTR. CK. | 2/32 | 2/32 | |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| No Stick | 1gal. | | |
| C.M.C. | 50# | | |
| Caustic | 50# | | |

DRILLER Lon Ladouceur

FOOTAGE

| FROM | TO | DR. D RM. R CORE C. |
|---|---|---|
| 3875 | 3892 | 17 |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL-S PAR-EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | SHALE | 110 | 18 | 1100 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 3890 DEV. 1¼°

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8 00 | 8 15 | ¼ | SER. RIG & CHECK 4½ PIPE RAMS O.K. |
| 8 15 | 9 45 | 1½ | DRILL |
| 9 45 | 10 45 | 1 | CIRC. BOTTOM SAMPLE |
| 10 45 | 11 15 | ½ | SURVEY @ 3890 - 1½° (BRIDGED OF HOLE 2 FT) |
| 11 15 | 1 45 | 2½ | MAKE 10 STAND DUMMY TRIP HOLE 46 FT |
| 1 45 | 3 00 | 1¼ | CIRC. HOLE CLEAN |
| 3 00 | 4 00 | 1 | TRIP FOR BIT |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 36 | STANDS D.P. | 3392.80 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 7/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 14.00 | FT. |
| | TOTAL | 3892 | FT. |

WT. OF STRING 94,000 LBS.

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | 3 |
| SIZE | 8¾ | 8¾ |
| MFG. | H.W. | H.W. |
| TYPE | X16- | XV |
| NOZZLE NO. | 2 1 | |
| NOZZLE SIZE | 12 11 | 12 |
| SER. NO. | 20338 | 21233 |
| DEPTH OUT | 3892 | |
| DEPTH IN | 2839 | 3892 |
| TOTAL FTG. | 053 | |
| TOTAL HR. RUN | 57¼ | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | | |
| WEIGHT | T | | |
| VISC.-SEC | R | | |
| W.L.-C.C. | P P | | |
| FLTR. CK | | | |
| PH | | | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| | | | |

DRILLER

FOOTAGE

| FROM | TO | DR. D RM. R CORE C. |
|---|---|---|
| | | |

| CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000# | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SCL-S PAR-EL-P COM'D-C |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

DEVIATION RECORD: DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 1:00 | 4:30 | ½ | TRIP FOR BIT |
| 4:30 | 4:45 | ¼ | RIG SERVICE + CHECK BOPs + HYD. (OK) |
| 4:45 | 10:45 | 6 | WAIT FOR WELDER TO REPAIR TONGS |
| 10:45 | 12:00 | 1¼ | HOIST BIT #2 |

APPROVED

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A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 12 DATE FEB 27

OPERATOR: SCURRY RAINBOW.

LEASE: CORMACK LAKE

WELL NO. 2 FIELD OR DIST. CORMACK LAKE COUNTY N.W.T. STATE

DRLG. LIC # H10

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Don Gregg

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Labossiere

DRILL PIPE STRING: NO. 45 SIZE — TOOL JOINT 6¼ O.D. — TYPE THD. XH

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1 | EMSCO | DA500 | 16 |
| 2 | EMSCO | D2500 | 16 |
| 3 | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 26 | | | 795' | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 7½ | 6¼ | 7 |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | | | |
| TRIPS | | | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ½ | 1 | ½ |
| TEST B.O.P. | | | |
| CONDITION DRILLING LINE | | | |
| REPAIR RIG | | | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8.8 | | |

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK

HRS. W/DP

HRS. WO/DP

HRS. STANDBY

TOTAL DAY WORK

## WIRE LINE RECORD

REEL NO.

NO. OF LINES 8 SIZE 1/8

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

## MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 81 | STANDS D.P. | 2960.85 | FT. |
| 1 | SINGLES D.P. | 31.68 | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| 1 | STB. BODY 2 7/8 O.D. | 5.70 | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 19.00 | FT. |
| | TOTAL | 3458. | FT. |

WT. OF STRING 90 M. LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2 |
| SIZE | 8¾ |
| MFG. | HW |
| TYPE | XIGJ |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 12-11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3458 |
| DEPTH IN | 2839 |
| TOTAL FTG. | 619 |
| TOTAL HR. RUN | 33½ |
| COND. OF BIT | DRLG. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 12.00 | 3:00 | 6.00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 60 | 59 | 60 |
| W.L.-C.C. | 5.2 | 5.4 | 5.0 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | Drilling Time 10-6 | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| NO SLUG | 20 BAL | CAUSTIC | 50# |
| GEL | 50# | CMC. | 100# |
| DV68 | 1 GAL | | |

DRILLER Mark Reid

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL-S PAR'EL-P COMP-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3288 | 3458 | 170 | | | 150 | 12 m / 15 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3351 | 1½° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | Rig Ser. + Kelly C-Clk. + Check Motor Shut off |
| 12.15 | 4.00 | 3¾ | Drilling 8¾" Hole |
| 4.00 | 4.30 | ½ | Survey at 3351 = 1½° |
| 4.30 | 8.00 | 3½ | Drilling 8¾" Hole. |
| | | 8 | |

## DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 33 | STANDS D.P. | 3108.66 | FT. |
| | SINGLES D.P. | | FT. |
| 16 | D.C. 2 13/16 I.D. 6¼ O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 12.13 | FT. |
| | TOTAL | 3606.00 | FT. |

WT. OF STRING 92,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2. |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X16-J |
| NOZZLE NO. | 2 4 |
| NOZZLE SIZE | 12 11 |
| SER. NO. | 20338 |
| DEPTH OUT | |
| DEPTH IN | 2839 |
| TOTAL FTG. | 767 |
| TOTAL HR. RUN | 40¼ |
| COND. OF BIT | DRLG |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 9.00 | 12.00 | 3.00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 55 | 63 | 54 |
| W.L.-C.C. | 5.2 | 5.4 | 5.0 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL. | 600# | | |
| CMC. | 50# | | |

DRILLER

FOOTAGE

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL-S PAR'EL-P COMP-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3458 | 3606 | 148 | | SHALE | 150 | 15/20 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3470 | 1½° | | 3570 | 1¼° | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 8.15 | ¼ | Ser Rig + check Bops + Kelly (OK) |
| 8.15 | 9.00 | ¾ | Drill |
| 9.00 | 9.30 | ½ | Survey @ 3470 = 1½° |
| 9.30 | 3.15 | 5¾ | Drill |
| 3.15 | 3.45 | ½ | Survey @ 3570' = 1¼° |
| 3.45 | 4.00 | ¼ | Drill |

## EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

| NO. | | | |
|---|---|---|---|
| 34 | STANDS D.P. | | FT. |
| 2 | SINGLES D.P. | 326.42 | FT. |
| 16 | D.C. I.D. O.D. | 474.56 | FT. |
| | D.C. I.D. O.D. | | FT. |
| 1 | STB. BODY O.D. | 5.70 | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS O.D. | 4.95 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 21.00 | FT. |
| | TOTAL | 3778. | FT. |

WT. OF STRING 97,000 LBS.

BIT RECORD

| | |
|---|---|
| BIT NO. | 2. |
| SIZE | 8¾ |
| MFG. | H.W. |
| TYPE | X16 |
| NOZZLE NO. | 2 1 |
| NOZZLE SIZE | 2 11 |
| SER. NO. | 20338 |
| DEPTH OUT | 3778 |
| DEPTH IN | 2839 |
| TOTAL FTG. | 939 |
| TOTAL HR. RUN | 48½ |
| COND. OF BIT | DRL. |
| REAMER NO. | |
| REAMER TYPE | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 4.00 | 8.00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 53 | 58 | 62 |
| W.L.-C.C. | 5.2 | 5.2 | 4.8 |
| FL.TR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 1800# | CAUSTIC | 50# |
| DV68 | 1 GAL | | |
| CMC | 100# | | |

DRILLER Brian Sadowski

FOOTAGE 170

| FROM | TO | DR-D RM-R CORE-C | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SOL-S PAR'EL-P COMP-C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3606 | 3776 | | | | 140 | 25 / 30 | 800 | 5½ | 58 | | | |

DEVIATION RECORD

| DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION |
|---|---|---|---|---|---|---|---|---|
| 3690 | ½° | | | | | | | |

TIME LOG

| FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4.00 | 4.15 | ¼ | Rig Service + Check B.O.P. |
| 4.15 | 8.00 | 3¾ | Drill 8¾" Hole |
| 8.00 | 8.30 | ½ | Survey @ 3690 = @ ½° |
| 8.30 | 12.00 | 3½ | Drill 8¾" Hole |
| | | 8 | |

APPROVED — APPROVED

A.A.O.D.C.—A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

# DAILY DRILLING REPORT

REPORT NO. 10 DATE Aug 25

OPERATOR: SCURRY RAINBOW

LEASE: CORMACK LAKE #2

WELL NO. 2 | FIELD OR DIST. CORMACK LAKE | COUNTY NWT | STATE

DRLG Lic # 410

CONTRACTOR: Jennings International Drilling — A Division of Western Electronics & Engineering Ltd.

RIG NO. 9

DRILL PIPE STRING: NO. — SIZE 4½ | TOOL JOINT 6¼ O.D. | TYPE THD. X H

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Ed Driggs

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Joe Lucas

PUMPS

| NO. | MANUFACTURER | TYPE | STROKE LENGTH |
|---|---|---|---|
| 1. | Emsco | DA 500 | 16 |
| 2. | Emsco | DA 500 | 16 |
| 3. | | | |

LAST CASING TUBING OR LINER

| SIZE | MAKE | WT. & GR. | NO. JOINTS | FEET | RKB. TO CSG. HD. | SET AT | REMARKS |
|---|---|---|---|---|---|---|---|
| 10 3/4 | | | 24 | | | 795 | |

## TIME DISTRIBUTION—HOURS

| | MORN | DAY | EVE |
|---|---|---|---|
| RIG UP & TEAR DOWN | | | |
| DRILLING ACTUAL | 3½ | 3 | 7¼ |
| REAMING | | | |
| CONDITIONING MUD & CIRCULATING | ¼ | | |
| TRIPS | 3 | 2½ | |
| LUBRICATE RIG | ¼ | ¼ | ¼ |
| DEVIATION SURVEY | ¾ | | ½ |
| TEST B.O.P. | | ¼ | |
| CUT OFF DRILLING LINE | | 1 | |
| REPAIR RIG | | ½ | |
| CORING | | | |
| WIRE LINE LOGGING | | | |
| RUNNING CASING & CEMENTING | | | |
| WAITING ON CEMENT | | | |
| DRILL STEM TEST | | | |
| OTHER | | ½ | |
| FISHING | | | |
| COMPLETION WORK A. PERFORATING | | | |
| B. TUBING TRIPS | | | |
| C. SWABBING | | | |
| D. TESTING | | | |
| E. ADDITIONAL | | | |
| TOTALS | 8 | 8 | 8 |

TIME SUMMARY (OFFICE USE ONLY)

| | |
|---|---|
| DAY WORK | |
| HRS. W/DP | 8 |
| HRS. WO/DP | |
| HRS. STANDBY | |
| TOTAL DAY WORK | |

WIRE LINE RECORD

| | |
|---|---|
| REEL NO. | |
| NO. OF LINES 8 | SIZE 1⅛ |
| FEET SLIPPED | |
| FEET CUT OFF | |
| PRESENT LENGTH | |
| TON MI. OR TRIPS SINCE LAST CUT | |
| CUMULATIVE TON MI. OR TRIPS | |
| NO. OF DAYS FROM SPUD | |
| CUMULATIVE ROTATING HRS. | |

## MORNING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 24 | STANDS D.P. | 2262.61 | FT. |
| 2 | SINGLES D.P. | | FT. |
| 1 | D.C. I.D. O.D. | 28.30 | FT. |
| 17 | D.C. 2 13/16 I.D. 6¼ O.D. | 504.91 | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 3.10 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41.00 | FT. |
| | TOTAL | 2839.92 | FT. |
| | WT. OF STRING | | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 1 | |
| SIZE | 8 3/4 | |
| MFG. | HW | |
| TYPE | X3AJ | |
| NOZZLE NO. | 3 | |
| NOZZLE SIZE | 11 | |
| SER. NO. | 12250 | |
| DEPTH OUT | 2839 | |
| DEPTH IN | 795 | |
| TOTAL FTG. | 2044 | |
| TOTAL HR. RUN | 49½ | |
| COND. OF BIT | 221 | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 2:00 | 4:00 | |
| WEIGHT | 9.1 | 9.1 | |
| VISC.-SEC | 58 | 60 | |
| W.L.-C.C. | 5.4 | 5.4 | |
| FLTR. CK. | 2/32 | 2/32 | |
| PH | 9.5 | 9.5 | |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 200# | | |
| CMC | 50# | | |
| No Stick | 1 gal | | |

DRILLER: Marty Reid

FOOTAGE

| FROM | TO | DR. RM. CORE C. | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. DBL. PAR'L. COMP'D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2746 | 2839 | 93 | | | 160 | 18 | 1200 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH 2795 | DEV. 1¾ | DIRECTION | DEPTH 2808 | DEV. 2¼ | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 12.00 | 12.15 | ¼ | RIG SER |
| 12.15 | 12.30 | ¼ | SURVEY AT 2715 |
| 12.30 | 4.00 | 3½ | DRILLING |
| 4.00 | 4.30 | ½ | CIRC SAMPLE |
| 4.30 | 5.00 | ½ | SURVEY AT 2808 |
| 5.00 | 8.00 | 3 | HOIST RT #1 STRAP OUT, PUMP OUT 35 stands (TIGHT HOLE) |
| | | 8 | |

## DAY TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 24 | STANDS D.P. | 2262.61 | FT. |
| 3 | SINGLES D.P. | 62.74 | FT. |
| 1 | D.C. I.D. O.D. | 28.30 | FT. |
| 17 | D.C. 2 13/16 I.D. 6¼ O.D. | 504.91 | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 3.10 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 28.34 | FT. |
| | TOTAL | 2890. | FT. |
| | WT. OF STRING | 85,000 | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | |
| SIZE | 8 3/4 | |
| MFG. | H.W. | |
| TYPE | X3AJ | |
| NOZZLE NO. | 2-12. | |
| NOZZLE SIZE | 7-11 | |
| SER. NO. | 20338 | |
| DEPTH OUT | | |
| DEPTH IN | 2839 | |
| TOTAL FTG. | 51 | |
| TOTAL HR. RUN | 3 | |
| COND. OF BIT | Drlg | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | | | 2:00 |
| WEIGHT | 1 | | 9.1 |
| VISC.-SEC | | | 56 |
| W.L.-C.C. | K | | 5.6 |
| FLTR. CK. | 1 | - | 2/32 |
| PH | | P | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 1000 | CMC | 50# |
| DeStick | 1 gal | DV 68 | 1 gal |
| Caustic | 50# | | |

DRILLER: Quesnel

FOOTAGE

| FROM | TO | DR. RM. CORE C. | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. DBL. PAR'L. COMP'D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2839 | 2890 | 51 | | SHALE | 150 | 10 | 1000 | 5½ | 58 | | | |

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 8.00 | 9.30 | 1½ | TRIP — Bond 2839.92 |
| 9.30 | 10.00 | ½ | Repair Drawworks Chain — Strap 2839.48 |
| 10.00 | 10.15 | ¼ | Check BOP's Blind Rams Pipe Rams ok. — DIFF .44 |
| 10.15 | 10.30 | ¼ | SER RIG — ND. Conn. |
| 10.30 | 11.30 | 1 | SLIP 49' Drilling Line & Cut 49' |
| 11.30 | 12.30 | 1 | TRIP |
| 12.30 | 1.00 | ½ | Clean in Sluffing Hole To Bottom |
| 1.00 | 4.00 | | Drill WT. 10,000 |

## EVENING TOUR

| NO. | DRILLING ASSEMBLY AT END OF TOUR | | |
|---|---|---|---|
| 26 | STANDS D.P. | 3449.52 | FT. |
| | SINGLES D.P. | | FT. |
| 1 | D.C. I.D. O.D. | 28.30 | FT. |
| 17 | D.C. 2 13/16 I.D. 6¼ O.D. | 504.91 | FT. |
| | STB. BODY O.D. | | FT. |
| | STB. BODY O.D. | | FT. |
| | RMR. BODY O.D. | | FT. |
| 2 | SUBS XO O.D. | 3.10 | FT. |
| | BIT OR C.B. | | FT. |
| | | | FT. |
| | KELLY DOWN | 41 | FT. |
| | TOTAL | 3026 | FT. |
| | WT. OF STRING | 88,000 | LBS. |

BIT RECORD

| | | |
|---|---|---|
| BIT NO. | 2 | |
| SIZE | 8¾ | |
| MFG. | H.W. | |
| TYPE | X3AJ | |
| NOZZLE NO. | 2-12 | |
| NOZZLE SIZE | 7-11 | |
| SER. NO. | 20338 | |
| DEPTH OUT | | |
| DEPTH IN | 2839 | |
| TOTAL FTG. | 187 | |
| TOTAL HR. RUN | 10¼ | |
| COND. OF BIT | | |
| REAMER NO. | | |
| REAMER TYPE | | |

MUD RECORD

| | | | |
|---|---|---|---|
| TIME | 6:00 | 8:00 | 10:00 |
| WEIGHT | 9.1 | 9.1 | 9.1 |
| VISC.-SEC | 59 | 53 | 58 |
| W.L.-C.C. | 5.6 | 5.4 | 5.4 |
| FLTR. CK. | 2/32 | 2/32 | 2/32 |
| PH | 9.5 | 9.5 | 9.5 |
| SD. CONT. % | | | |
| PRESSURE GRADIENT | DUMPED SHAKER SAND & BUILD VOLUME Add 9.0 Add 9.1 | | |

MUD & CHEMICALS ADDED

| TYPE | AMT. | TYPE | AMT. |
|---|---|---|---|
| GEL | 1300# | CMC | 150# |
| DV 68 | 1 gal | CAUSTIC | 50# |
| No Stick | 3 gal | | |

DRILLER: Bonin Jodoin

FOOTAGE

| FROM | TO | DR. RM. CORE C. | CORE NO. | FORMATION (SHOW CORE RECOVERY) | ROTARY RPM | WT. ON BIT 1000 # | PUMP PRESS | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | PUMP NO. LINER SIZE | PUMP NO. S.P.M. | METHOD RUN SGL. DBL. PAR'L. COMP'D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2890 | 3026 | | | | 150 | 12 | 1000 | 5½ | 57 | | | |

DEVIATION RECORD: DEPTH 2920 | DEV. 2° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

| TIME LOG FROM | TO | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS |
|---|---|---|---|
| 4:00 | 4:15 | ¼ | Rig Service & Check BOPs |
| 4:15 | 8:00 | 3¾ | Drill 9⅞" Hole |
| 8:00 | 8:30 | ½ | Survey at 2920 Feet |
| 8:30 | 12:00 | 3½ | Drill 9⅞" Hole |

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