

SHELL-BEaver LAKE

M-39-A

Drilling Authority No. 312  
Date Issued Feb. 29, 1968

WELL NAME Shell Beaver Lake 8-19-6

FIELD Wildcat

LOCATION: Unit

X

Area:

Section

39

Grid

61-10-117-00

Latitude 61-09-00

Longitude 117-07-00, 64

From Established Reference Marker

30th Baseline

11 W L R 61-15-00 - 117-11-45

11 W I 302 M 396 W 117-11-45

Rig Release Date: March 6, 1968

Status D & A

Information Release Date

# CHANGE OF NAME

| DATE RECEIVED | INDEX                                                                  |
|---------------|------------------------------------------------------------------------|
| 2-2-68        | Application for a Drilling Authority.                                  |
| 1-9-3-68      | Well Completion Data.                                                  |
|               | Well History Report.                                                   |
|               | Application to Amend a Drilling Authority.                             |
|               | Application to change a Well Name.                                     |
| May 6/68      | Application to Abandon a Well or Suspend Drilling.                     |
|               | Application to Alter Condition of a Well.                              |
|               | Well History Supplement.                                               |
|               | Well Completion Data.                                                  |
|               | Work-over Report No.                                                   |
|               | Application to Commingle Production before Measurement.                |
|               | Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method. |
|               | Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.    |
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|               | New Oil Well Report.                                                   |
|               | New Gas Well Report.                                                   |
|               | Well Inspection Report.                                                |
|               | Rig Inspection Report.                                                 |
|               | Battery Inspection Report.                                             |
|               | Equipment Report.                                                      |
|               | Well Card.                                                             |
|               | New Service Well Report.                                               |
|               | Monthly Water Flood Operations Report                                  |
|               | Monthly Water Receipts and Disposal of Fluids Report                   |
|               | Logs. Large scale                                                      |
|               | Small scale                                                            |



CEMENTING RECORD (Pump, Squares, etc.)

| Date      | From | To      | Remarks                                                                                                                                                     | Date | From | To | Remarks | Date | From | To | Remarks |
|-----------|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|---------|------|------|----|---------|
| Mar. 6/68 | 590  | Surface | Cemented with 140 sacks<br>• 42 gal in 3 stages<br>3rd stage completed<br>4:30 p.m. March 6, 1968<br>Cut off casing 3' below<br>ground. Welded on<br>plate. | Nil  |      |    |         | Nil  |      |    |         |

PERFORATING RECORD (Inches, Feet)

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

SERVISING RECORD (Assembling, Packing, etc.)

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

DRILL STEM TESTS

| No. | Date | Formation | From | To | V.O.<br>Mins. | U.S.L.<br>Mins. | F.S.L.<br>Mins. | U.S.L.W.H.P. | P.F.H.W.H.P. | U.H.P. | F.H.P. | Remarks |
|-----|------|-----------|------|----|---------------|-----------------|-----------------|--------------|--------------|--------|--------|---------|
| Nil |      |           |      |    |               |                 |                 |              |              |        |        |         |

ANALYSIS

| Date | Sample | From | To | Remarks | PRESENT STATUS OF WELL |
|------|--------|------|----|---------|------------------------|
| Nil  |        |      |    |         | (Nil)                  |
|      |        |      |    |         | (Gases)                |
|      |        |      |    |         | (Gases)                |
|      |        |      |    |         | (Dry)                  |
|      |        |      |    |         | (Slugs)                |

Company **Shell Canada Limited**

Signed by **P. J. DENNY** for

**A.M. McLaughlin**

Title **Manager - Edmonton Division Production**

Date **March 19, 1968**

Form to be prepared in duplicate and forwarded to the Oil  
Conservation Engineers, Calgary, Alberta.



File No. 312  
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
RESOURCE MANAGEMENT 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 **Shell Beaver Lake R-39(A)**

Location: Unit **R** Section **39** **61° 18' N 117° 00' W**

Latitude **61° 05' 00" N** Longitude **117° 07' 00" W**

From Established Reference Marker

Universal Well Location Reference **61.15000° N. Lat. 117.11745° W. Long.**

Permit No. **9790**

Lease No.

**Shell Canada Limited**

(Permitter, Lessee, Licensee)

Date of commencement of proposed program

## OIL, GAS, AND WATER ENCOUNTERED (Depth)

Oil at **811**

Gas at **700-710**

Water at **11000 Feet shown to be water bearing by logs**

Total Depth **990**

Date of last operations **March 6, 1968**

Present condition of well **Plugged & Abandoned**

## CASING RECORD

| Casing Size (O.D.) Inches | Weight      | Amount         | Net At            | Notes of Cement and Additives         | Amount Pulled |
|---------------------------|-------------|----------------|-------------------|---------------------------------------|---------------|
| <b>7"</b>                 | <b>8.40</b> | <b>158.51'</b> | <b>207.51' KB</b> | <b>50 sacks + 2% CaCl<sub>2</sub></b> | <b>811</b>    |
| 1.                        |             |                |                   |                                       |               |
| 2.                        |             |                |                   |                                       |               |
| 3.                        |             |                |                   |                                       |               |
| 4.                        |             |                |                   |                                       |               |
| 5.                        |             |                |                   |                                       |               |

## PROPOSED ABANDONMENT PROGRAM

| No.      | Plug Position       | Geological Formation    | Number of Sacks of Cement | Remarks                                                                                              |
|----------|---------------------|-------------------------|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>TS - Surface</b> | <b>Devonian-Surface</b> | <b>140 Sacks</b>          | <b>+ 40 Sol. Cement in 3 stages. Cut off casing 3' below ground level. Weld on plate; erect sign</b> |
|          |                     |                         |                           |                                                                                                      |
|          |                     |                         |                           |                                                                                                      |
|          |                     |                         |                           |                                                                                                      |
|          |                     |                         |                           |                                                                                                      |

**155 - MLC ONE 500**

The following logs have been run **None**  
Other operations proposed

Operations **Big Indian Drilling Co.** **16313**  
Address **V.A. Alberton** **Calgary, Alberta**  
Responsible Agent in **Calgary** **19**  
Dated at **A.R. McLaughlin** **March 68**  
Signed **Major-Edmonton Div. Production** **Shell Canada Limited** **19**  
Title **Operator's Exploratory Licence No.** **1077**

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

(For RESOURCE MANAGEMENT DIVISION use only)

## APPROVAL

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

Confirming oral approval given by Mr. D.M.J. Thoms on the 6th of March 1968.

Dated **6th May**, 19 **68**

*B.M.J. Thoms*  
Oil Conservation Engineer

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



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
RESOURCE MANAGEMENT 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 **Shell Beaver Lake H-39(A)**  
 Location: Unit **H** Section **39** Grid **61°18'00" N. 117°00'00" W.**  
 Latitude **61° 09' 00"** Longitude **117° 07' 02.04"**  
 From Established Reference Marker  
 Universal Well Location Reference **61.15000° N. Lat. 117.11745° W. Long.**  
 Elevation: Ground **507** K.R. **516** feet above sea level.  
 Well is expected to produce from **Slave Point** formation at a depth  
 of about **700** feet Expected total final depth **1300**  
 Area assigned to well

(The Oil Conservation Engineer's use only)

Permit No. **3194** Lease No. **30,960**  
 Permittee, licensee, or lessee **Shell Canada Limited**  
 Exploratory Licence No. **1077**  
 Surface owned by Crown **Crown**

Petroleum and natural gas rights owned by **Shell-Canada Limited**

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

| Casing Size (O.D. (inches)) | Weight (Lbs./Ft.) | Grade       | How to Land | Estimated Depth | Stock of Cement |
|-----------------------------|-------------------|-------------|-------------|-----------------|-----------------|
| <b>7"</b>                   | <b>170</b>        | <b>H-40</b> | <b>Used</b> | <b>215</b>      | <b>00 sacks</b> |
| 1                           |                   |             |             |                 |                 |
| 2                           |                   |             |             |                 |                 |
| 3                           |                   |             |             |                 |                 |
| 4                           |                   |             |             |                 |                 |
| 5                           |                   |             |             |                 |                 |

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

**Slave Point**  
**6" Series 900 Type B Hydraulic Double Shaeffer**  
**6" Series 900 GR Hydril**

Well will be drilled with Rotary Rig No. **17** by **Sig Indian Drilling Co. Ltd.**

(Drilling Contractor or company)

Responsible agent of applicant **W. A. Robertson** Contractor's Business Licence No. **10213**  
 At well **Box 106, Edmonton** At registered office **A. N. McLeachlin**  
 Address **Box 106, Edmonton** Address  
 It is understood that where necessary, notice of the change of **W. A. Robertson** will be submitted.  
 Dated at **Edmonton** this **27th** day of **February** 1968  
 Signed **A. M. MacLeod** for **A. N. McLeachlin** **Shell Canada Limited**  
 Title **Production** Company **1077**  
 Operator's Licence No.

(For Resource Management Division use only)

APPROVED

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

Dated **27th February** 1968

Oil Conservation Engineer

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

Drilling Authority No. 312

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
RESOURCE MANAGEMENT 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 *Shell Devon Lake N-39-4*

Location: Unit *N* Section *39* Grid *41-10-117-50*

Latitude *61-09-00 N* Longitude *117-07-02.94 W*

From Established Reference Marker *24th Baseline*

Universal Well Location Reference *Lat. 61.15000 N., Long. 117.11765 W.*

Elevation: Ground *507* K N *516* feet above sea level.

Well is expected to produce from formation at a depth

of about feet Expected total final depth

Area assigned to well (For Oil Conservation Engineer's use only)

Permit No. *3194* Lease No. *Acres*

Permitter, licensee, or leasee *Shell Canada Limited*

Exploratory Licence No. *1877*

Surface owned by Crown or

(If alienated, indicate name and address of owner and occupant.)

Petroleum and natural gas rights owned by

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

| Casing Size (O.D. in inches) | Weight (Lb. Ft.) | Grade | Name of Casing | Retained Depth | Notes of Cement      |
|------------------------------|------------------|-------|----------------|----------------|----------------------|
| 1. 7"                        | 179              | N.40  |                |                | NO marks and         |
| 2.                           |                  |       |                |                | 25 CaCl <sub>2</sub> |
| 3.                           |                  |       |                |                |                      |
| 4.                           |                  |       |                |                |                      |
| 5.                           |                  |       |                |                |                      |

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

Well will be drilled with Rotary Rig No. *17* by *Big Indian Drilling Co., Ltd.*  
(Drilling Contractor or company)

Responsible agent of applicant Contractor's Business Licence No. *18213*

At well At registered office

Address Address

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

Dated at this 29th day of February 19 68

Signed by Company *Shell Canada Limited*

Title Operator's Licence No. *1877*

(For Resource Management Division use only)

APPROVED

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

Dated

19

Oil Conservation Engineer

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

SHELL BEAVER LAKE M-39(A)

61°09'00"N 117°07'02.84"W

WELL HISTORY REPORT





WELL HISTORY REPORT  
SHELL BEAVER LAKE M-39A  
SHELL CANADA LIMITED  
APRIL 15, 1968.

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SECTION I SUMMARY OF WELL DATA

(a) Well Name and Number

Shell Beaver Lake M-39(A)

(b) Permittee

Shell Canada Limited

(c) Operator

Shell Canada Limited, Box 186, Edmonton, Alberta.

(d) Location

|                    |            |                           |
|--------------------|------------|---------------------------|
| Unit M             | Section 39 | Grid 61°10'00".117°00'00" |
| Latitude 61°09'00" |            | Longitude 117°07' 02.84"  |

(e) Permit Number

3194

(f) Drilling Contractor

Big Indian Drilling Co. Ltd., Rig #17

(g) Drilling Authority

Drilling Authority No. 318  
Issued February 29, 1968.

(h) Classification

Wildcat

(i) Elevations

Ground 507, K.B. 516

(j) Spudded

Feb. 29, 1968.

(k) Completed Drilling

March 5, 1968.

(l) Abandoned

March 6, 1968.

(m) Total Depth and Plugged Back Total Depth

T.D. 990 K.B. (Driller)  
C.B.T.D. - Surface

(n) Well Status

Dry and abandoned

(o) Rig Released

March 6, 1968

(p) Hole Size

9 7/8" to 216'  
6 1/4" to 990'

(q) Casing

4 joints 7" H40, 1 joint 7" J55 landed at: 207.51 K.B. , with 80  
sacks cement + 2% CaCl<sub>2</sub>

(r) Universal Well Location Reference

Lat. 61.15000° N.  
Long. 117.11745° W.

(s) Unique Well Identifier

302M396110117000

SECTION II GEOLOGICAL SUMMARY

(a) Formation Tops

Formation  
Sieve Point

Depth (K.S.)  
703 (-187)

(b) Cores

No core cut

(c) Sample Description

See attached report

SECTION III ENGINEERING SUMMARY(a) Drillstem Tests

None

(b) Casing Record

| Size | Weight | Grade | Amount | Depth       | Cement                          |
|------|--------|-------|--------|-------------|---------------------------------|
| 7"   | 178    | B40   | 4 jts  |             |                                 |
| 7"   | 208    | J55   | 1 jt.  | 207.51 K.B. | 80 sacks + 2% CaCl <sub>2</sub> |

(c) Bit Record

| No. | Size   | Type | Depth Out | Feet Cut | Hours  |
|-----|--------|------|-----------|----------|--------|
| 1A  | 9 7/8" | YT3  | 216       | 216      | 10 1/4 |
| 1   | 6 1/4" | DT   | 826       | 608      | 24 1/2 |
| 2   | 6 1/4" | DT   | 990       | 166      | 18 1/4 |

(d) Mud Record

| Caustic | Gel      | CNC     | Felton |
|---------|----------|---------|--------|
| 2 sacks | 34 sacks | 2 sacks | 1 sack |

(e) Deviation Record

| Depth | Deviation (Totco") |
|-------|--------------------|
| 41    | 1/4                |
| 130   | 3/4                |
| 160   | 7/8                |
| 740   | 1 1/2              |
| 990   | 1                  |

(f) Abandonment Plugs

| Date      | Interval    | Cement & Additives | Remarks                                                               |
|-----------|-------------|--------------------|-----------------------------------------------------------------------|
| Mar. 6/68 | 990-Surface | 140 sacks + 4% Gel | Cut off csg. 3' below ground level, welded on plate and erected sign. |

(g) Lost Circulation Zones

708' K.B. Pumped 30 bbls mud in formation (Slave Point)  
Added 3 bags sandust and circulated.

(h) Blowouts

Well blew out at 708' K.B. All the mud was blown out of the hole by gas. Pressure built up to 300 PSI on manifold and 200 PSI on standpipe. Gas was flared off at flare pit followed by water flow while trying to bleed pressure off. Pumped 9.5 wt. mud and 3 sacks sandust into hole and kept bleeding off pressure until well was killed. Circulated and conditioned mud for two hours after well was killed before drilling ahead.

SECTION IV LOGS

|          | <u>Date</u> | <u>Interval</u> | <u>Type</u>          |
|----------|-------------|-----------------|----------------------|
| 986-208' | Mar. 5/68   | TD Surface Cag  | Bik. Sonic Gamma Ray |
| 990-208' | Mar. 5/68   | TD Surface Cag  | Microlog Caliper     |
| 990-208' | Mar. 5/68   | TD Surface Cag  | I.E.S.               |

Three copies of each log forwarded March 28, 1968.

SECTION V ANALYSIS

(a) Core Analysis

None

(b) Water Analysis

None

(c) Gas Analysis

None

(d) Oil Analysis

None



SECTION VI COMPLETION RECORD(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

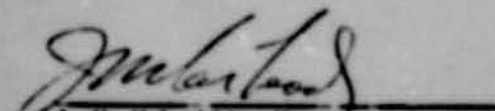
| <u>Plug No.</u> | <u>Date</u> | <u>Interval</u> | <u>Formation</u> | <u>Cement</u>             |
|-----------------|-------------|-----------------|------------------|---------------------------|
| 1               | Mar. 5/68   | 990-Surface     | Slave Point      | 140 sacks +<br>4 1/2 Gal. |

Cut off casing 3' below ground, welded on plate  
and erected sign.(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None

  
A. W. McLechlin, Manager,  
Edmonton Division Production.

SHELL BEAVER LAKE K-39

T.D. 990

E.B. 516

LATITUDE: 61° 09' 00" N.

LONGITUDE: 117° 07' 04" W.

|            |       |                           |
|------------|-------|---------------------------|
| 0' -200'   |       | DRIFT. With shale traces. |
| 200' -210' | Shale | Shale, grey, calcareous.  |
| 210' -220' | Shale | Shale, grey, calcareous.  |
| 220' -230' | Shale | Shale, grey, calcareous.  |
| 230' -240' | Shale | Shale, grey, calcareous.  |
| 240' -250' | Shale | Shale, grey, calcareous.  |
| 250' -260' | Shale | Shale, grey, calcareous.  |
| 260' -270' | Shale | Shale, grey, calcareous.  |
| 270' -280' | Shale | Shale, grey, calcareous.  |
| 280' -290' | Shale | Shale, grey, calcareous.  |
| 290' -300' | Shale | Shale, grey, calcareous.  |
| 300' -310' | Shale | Shale, grey, calcareous.  |
| 310' -320' | Shale | Shale, grey, calcareous.  |
| 320' -330' | Shale | Shale, grey, calcareous.  |
| 330' -340' | Shale | Shale, grey, calcareous.  |
| 340' -350' | Shale | Shale, grey, calcareous.  |
| 350' -360' | Shale | Shale, grey, calcareous.  |
| 360' -370' | Shale | Shale, grey, calcareous.  |

|            |       |                          |
|------------|-------|--------------------------|
| 370' -380' | Shale | Shale, grey, calcareous. |
| 380' -390' | Shale | Shale, grey, calcareous. |
| 390' -400' | Shale | Shale, grey, calcareous. |
| 400' -410' | Shale | Shale, grey, calcareous. |
| 410' -420' | Shale | Shale, grey, calcareous. |
| 420' -430' | Shale | Shale, grey, calcareous. |
| 430' -440' | Shale | Shale, grey, calcareous. |
| 440' -450' | Shale | Shale, grey, calcareous. |
| 450' -460' | Shale | Shale, grey, calcareous. |
| 460' -470' | Shale | Shale, grey, calcareous. |
| 470' -480' | Shale | Shale, grey, calcareous. |
| 480' -490' | Shale | Shale, grey, calcareous. |
| 490' -500' | Shale | Shale, grey, calcareous. |
| 500' -510' | Shale | Shale, grey, calcareous. |
| 510' -520' | Shale | Shale, grey, calcareous. |
| 520' -530' | Shale | Shale, grey, calcareous. |
| 530' -540' | Shale | Shale, grey, calcareous. |
| 540' -550' | Shale | Shale, grey, calcareous. |
| 550' -560' | Shale | Shale, grey, calcareous. |
| 560' -570' | Shale | Shale, grey, calcareous. |
| 570' -580' | Shale | Shale, grey, calcareous. |
| 580' -590' | Shale | Shale, grey, calcareous. |
| 590' -600' | Shale | Shale, grey, calcareous. |
| 600' -610' | Shale | Shale, grey, calcareous. |
| 610' -620' | Shale | Shale, grey, calcareous. |
| 620' -630' | Shale | Shale, grey, calcareous. |

|            |           |                                                                                      |
|------------|-----------|--------------------------------------------------------------------------------------|
| 630' -640' | Shale     | Shale, grey, calcareous.                                                             |
| 640' -650' | Shale     | Shale, grey, calcareous.                                                             |
| 650' -660' | Shale     | Shale, grey, calcareous.                                                             |
| 660' -670' | Shale     | Shale, grey, calcareous.                                                             |
| 670' -680' | Shale     | Shale, grey, calcareous.                                                             |
| 680' -690' | Shale     | Shale, grey, calcareous.                                                             |
| 690' -700' | Shale     | Shale, grey, calcareous.                                                             |
| 700' -710' | Limestone | Limestone, slightly dolomitic, with some shale, trace of pyrite.                     |
| 710' -720' | Limestone | Limestone, light grey-medium brown, fossiliferous, with traces of spar and dolomite. |
| 720' -730' | Limestone | Limestone, light grey-brown, fossiliferous, with traces of spar and dolomite.        |
| 730' -740' | Limestone | Limestone, medium brown-grey, fossiliferous, traces of shale and spar.               |
| 740' -750' | Limestone | Limestone, medium grey-brown, fossiliferous, with trace of spar.                     |
| 750' -760' | Limestone | Limestone, medium grey-brown, fossiliferous, with trace of spar.                     |
| 760' -770' | Limestone | Limestone, medium grey-brown, fossiliferous, trace of dolomite.                      |
| 770' -780' | Limestone | Limestone, medium grey-brown, fossiliferous.                                         |
| 780' -790' | Limestone | Limestone, medium grey-brown, fossiliferous.                                         |
| 790' -800' | Limestone | Limestone, medium-light brown, fossiliferous, trace of shale.                        |

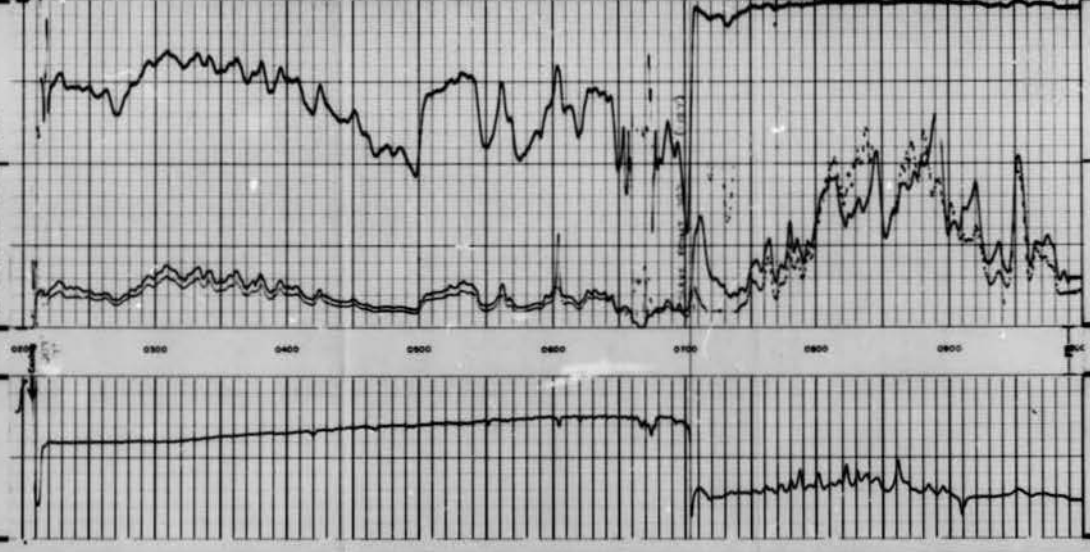
|            |           |                                                                                 |
|------------|-----------|---------------------------------------------------------------------------------|
| 800' -810' | Limestone | Limestone, medium-light brown, fossiliferous, trace of shale.                   |
| 810' -820' | Limestone | Limestone, medium-light brown, fossiliferous, trace of shale.                   |
| 820' -830' | Limestone | Limestone, medium-light brown, fossiliferous, trace of sparry matrix.           |
| 830' -840' | Limestone | Limestone, medium-light brown, fossiliferous, trace of sparry matrix.           |
| 840' -850' | Limestone | Limestone, medium-light brown, fossiliferous, trace of sparry matrix.           |
| 850' -860' | Limestone | Limestone, medium-light brown, fossiliferous, trace of sparry matrix and shale. |
| 860' -870' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 870' -880' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 880' -890' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 890' -900' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 900' -910' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 910' -920' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |
| 920' -930' | Limestone | Limestone, medium-light brown grey, fossiliferous, some sparry cement.          |

|            |           |                                       |
|------------|-----------|---------------------------------------|
| 930' -940' | Limestone | Limestone, light grey, fossiliferous. |
| 940' -950' | Limestone | Limestone, light grey, fossiliferous. |
| 950' -960' | Limestone | Limestone, light grey, fossiliferous. |
| 960' -970' | Limestone | Limestone, white, fossiliferous.      |
| 970' -980' | Limestone | Limestone, light grey, fossiliferous. |
| 980' -990' | Limestone | Limestone, light grey, fossiliferous. |

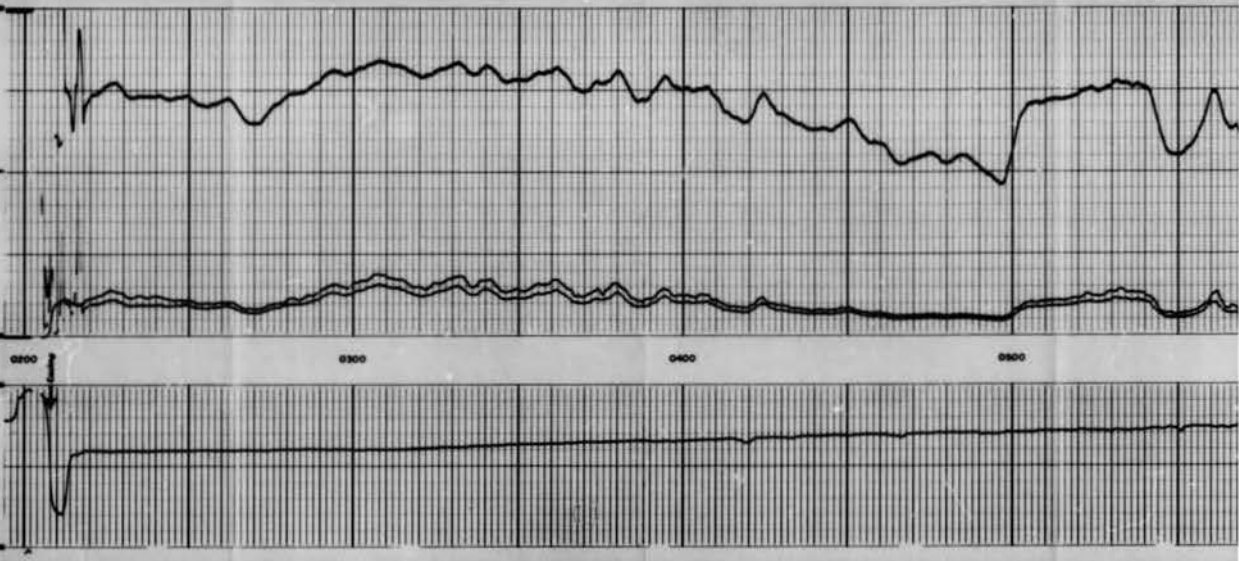
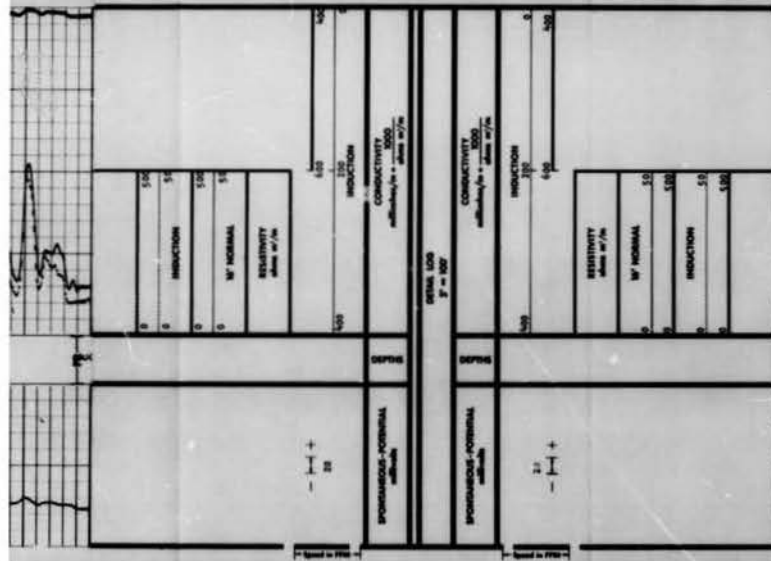
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|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Year | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

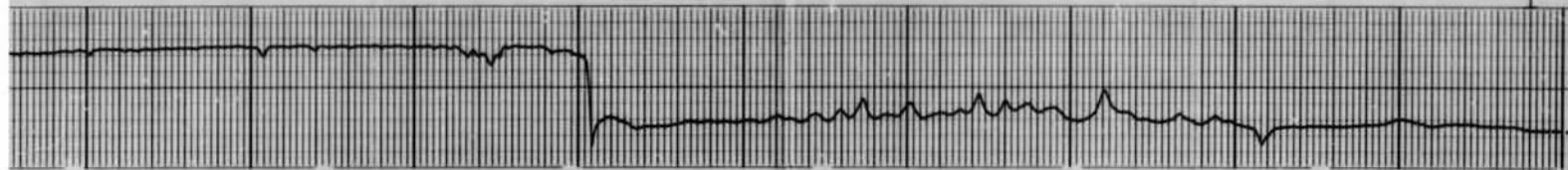
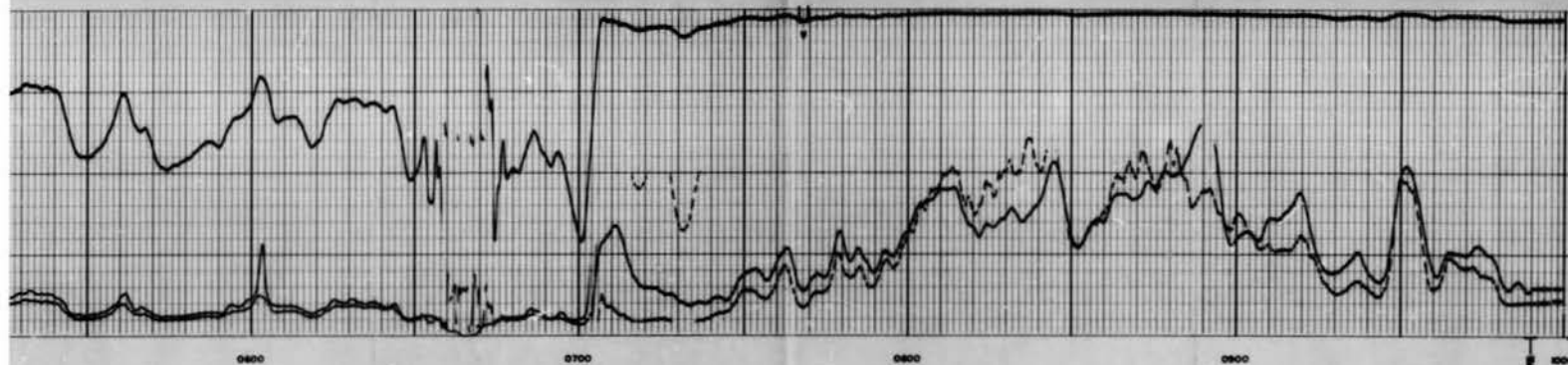
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|-------------------------------------|--|--------|----------------------------------------------------------------------|------|
| SPONTANEOUS-POTENTIAL<br>millivolts |  | DEPTHS | CONDUCTIVITY                                                         | 1000 |
|                                     |  |        | milli-mhos/cm = $\frac{\text{ohms cm}^2}{\text{ohms m}^2/\text{cm}}$ |      |
|                                     |  |        | INDUCTION                                                            | 0    |
|                                     |  |        | RESISTIVITY                                                          | 500  |
|                                     |  |        | 1" NORMAL                                                            | 500  |
|                                     |  |        | INDUCTION                                                            | 500  |
|                                     |  |        | RESISTIVITY                                                          | 500  |



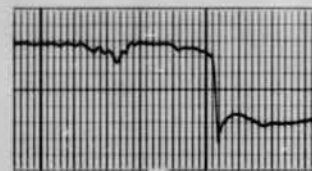
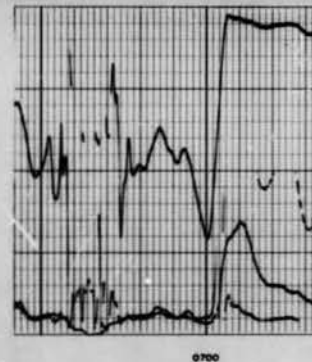


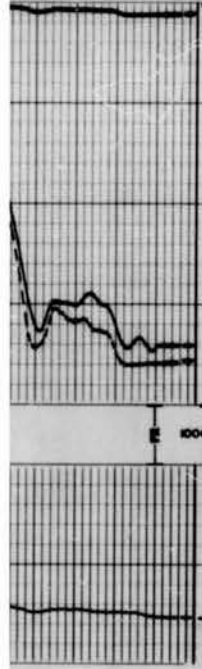




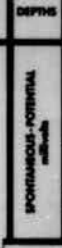
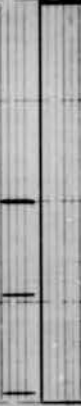
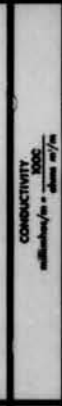
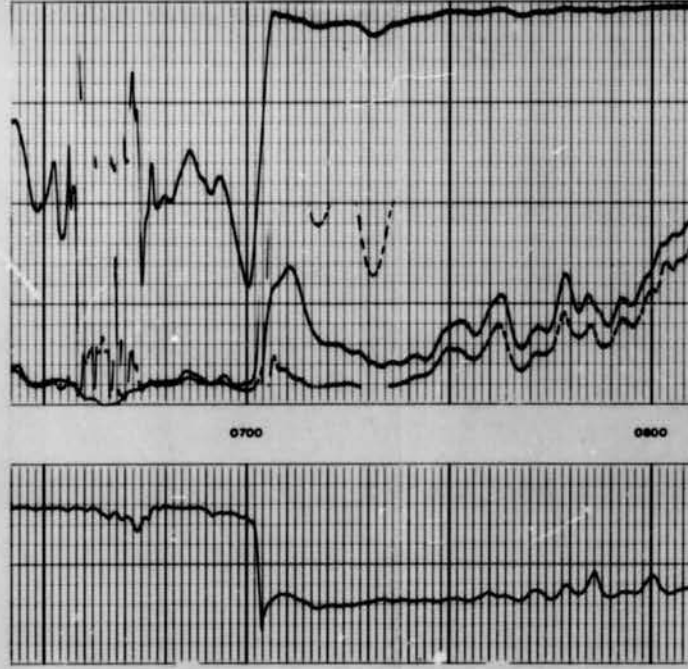


REPEAT SECTION





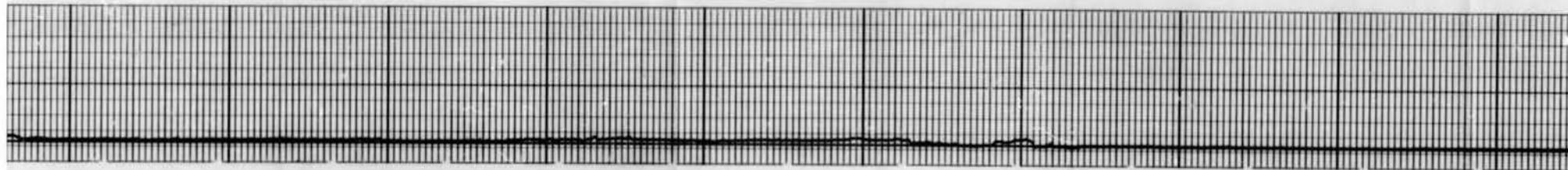
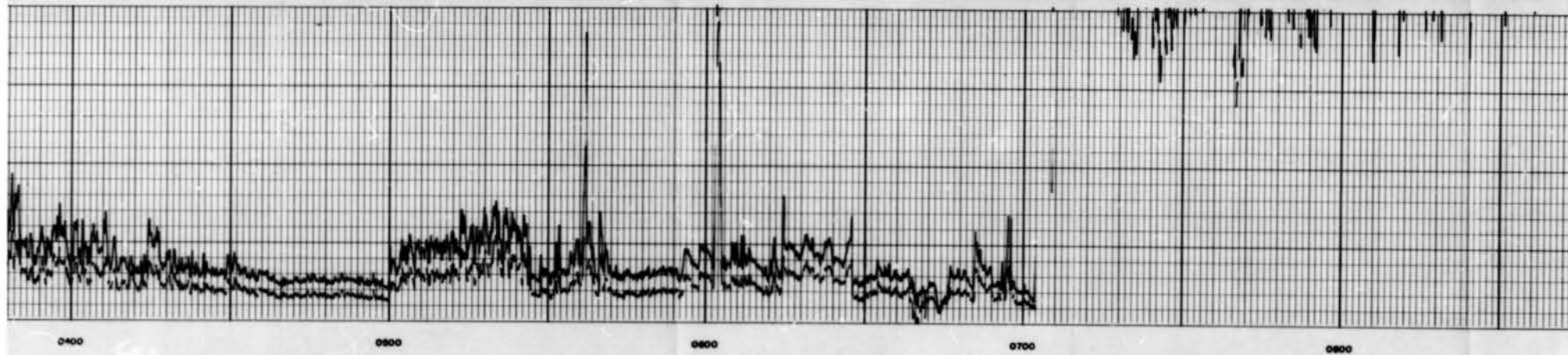
REPEAT SECTION

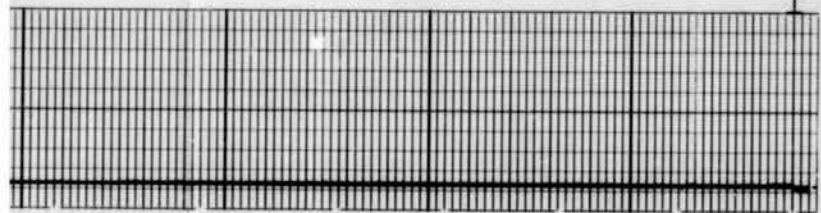
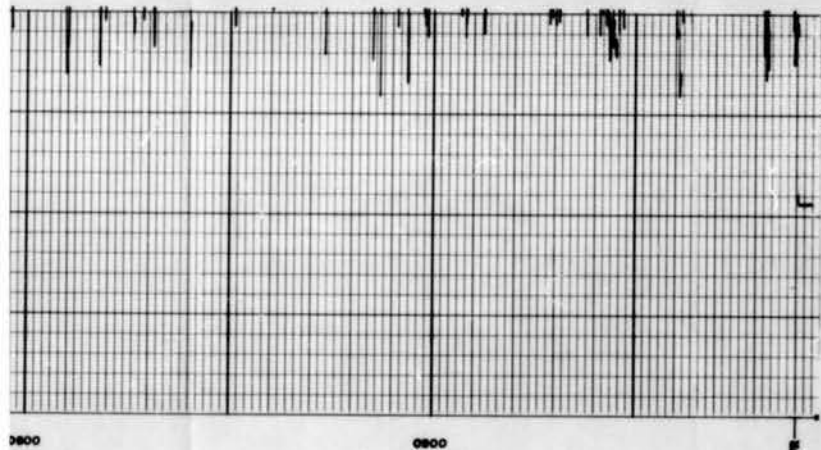


|         |  |                                        |  |
|---------|--|----------------------------------------|--|
| COMPANY |  | SHELL CANADA LIMITED                   |  |
| WELL    |  | SHELL BEAVER LAKE M-38 (A)             |  |
| FIELD   |  | WILDCAT PROVINCE NORTHWEST TERRITORIES |  |

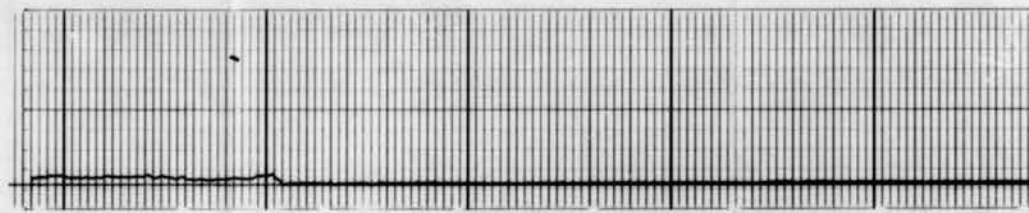
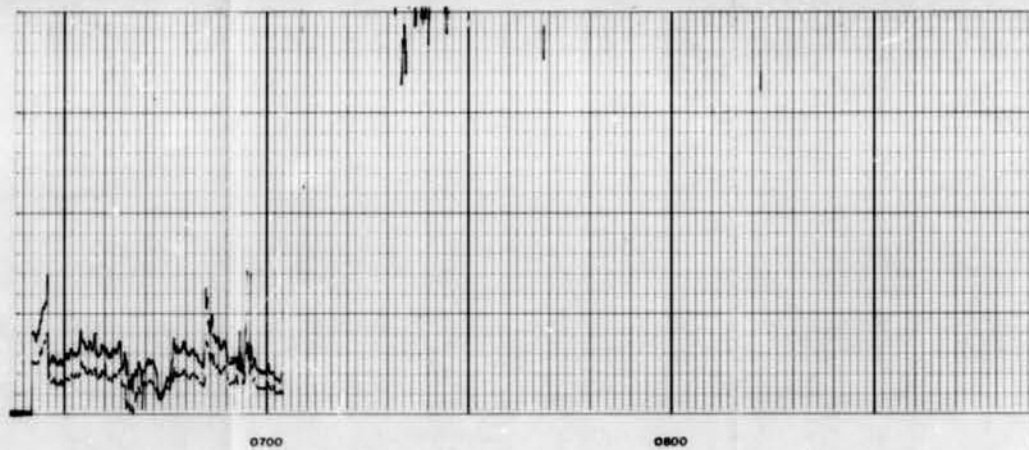








REPEAT SECTION



0900

FE 100

Speed in FPM

4 5 6 7 8 9 10 11 12 13 14

CALIPER  
hole diameter in inches

DEPTHS

0 20  
Micro Resistor 2"

Micro Resistor 1 x 1"

MICROLOG  
resistivity in ohms m / m

DETAIL LOG 5' = 100'

Speed in FPM

4 5 6 7 8 9 10 11 12 13 14

CALIPER  
hole diameter in inches

DEPTHS

MICROLOG  
resistivity in ohms m / m0 80  
Micro Resistor 1 x 1"

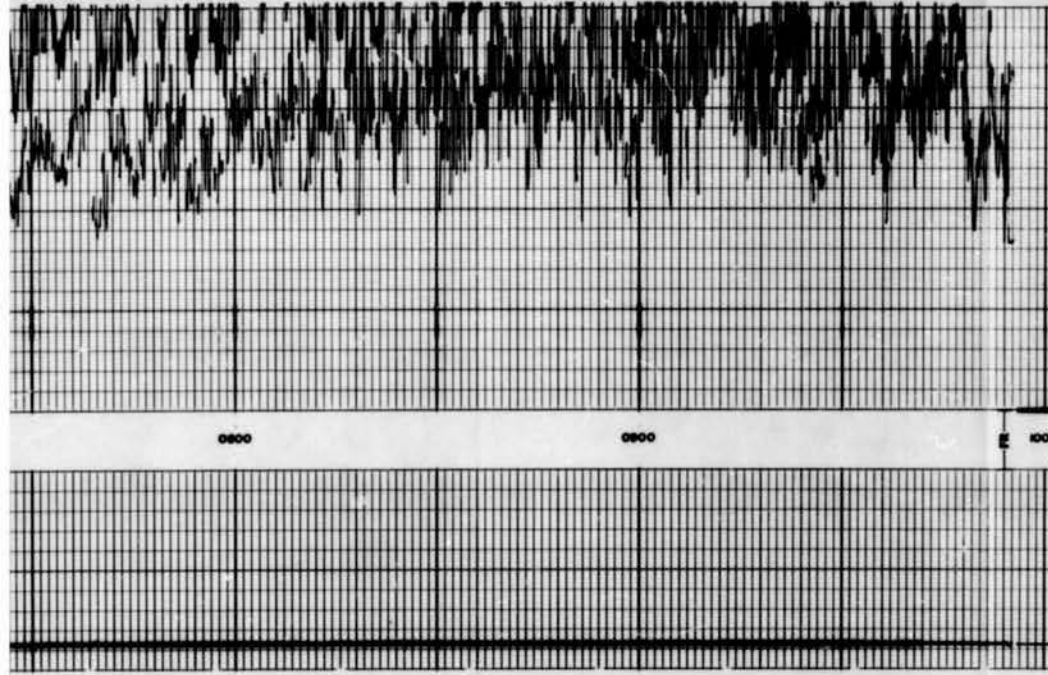
Micro Resistor 2"

80

0700

0800





0800

0800

FR 1000

— Speed in FPM —

6 7 8 9 10 11 12 13 14

Micro Inches 7"

Micro Inches 1/2"

CALIBER  
hole diameter in inches

DEPTHS

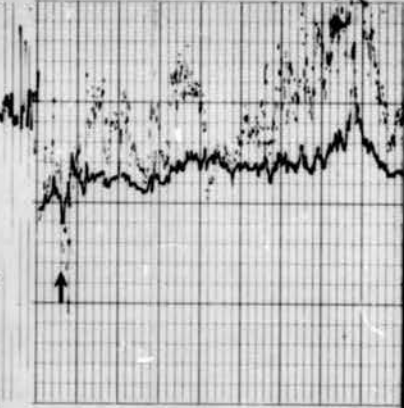
MICROLOG  
resistivity in ohms m / m

MAID LOG WITH SONDE COLLAPSED

Apparent Rm 14.5 Ohm / m  
Depth 670 ft

RESISTIVITY  
ohms m / m

0700 0600 0500 0400 0300



COMPANY SHELL CANADA LIMITED

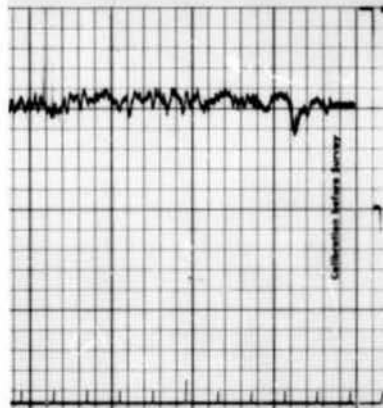
SCHLUMBERGER

WELL SHELL BEAVER LAKE P-39 (A)

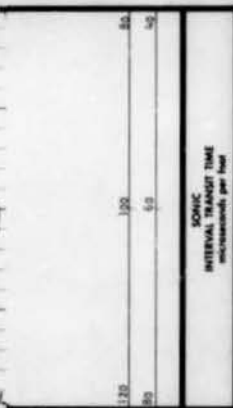
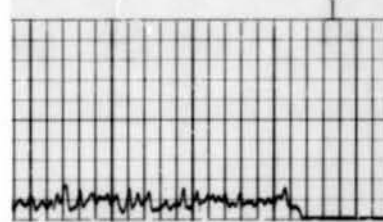
FIELD WILDCAT PROVINCE NORTHWEST TERRITORIES





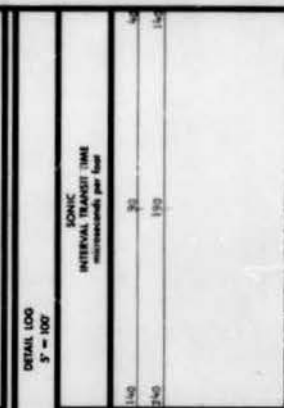


0800 0900 1000



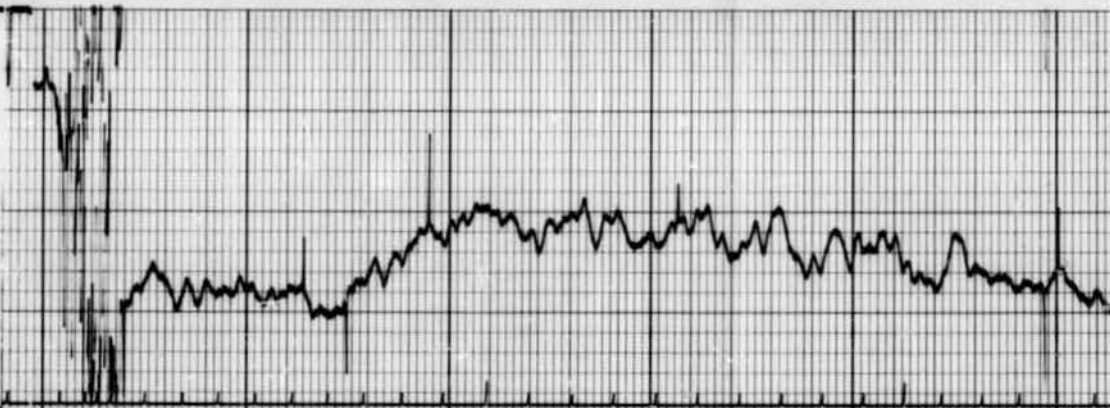
DEPTH

|                         |   |   |      |    |    |     |    |    |
|-------------------------|---|---|------|----|----|-----|----|----|
| 6                       | 7 | 8 | 9    | 10 | 11 | 12  | 13 | 14 |
| CALIPER                 |   |   |      |    |    |     |    |    |
| hole diameter in inches |   |   |      |    |    |     |    |    |
| Size                    |   |   | T.C. |    |    | 2   |    |    |
| 0                       |   |   | 0    |    |    | 0   |    |    |
| 120                     |   |   | 120  |    |    | 120 |    |    |
| 250                     |   |   | 250  |    |    | 250 |    |    |

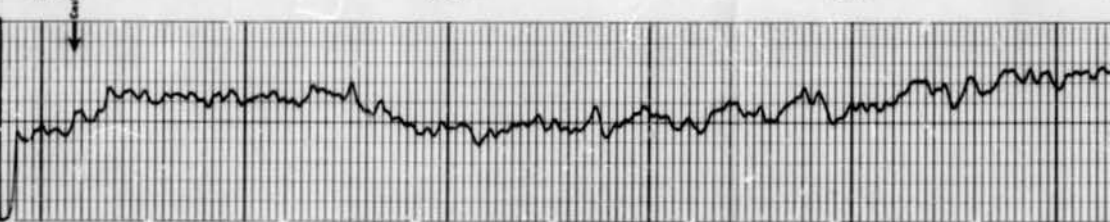


DEPTH

|                         |   |   |      |    |    |     |    |    |
|-------------------------|---|---|------|----|----|-----|----|----|
| 6                       | 7 | 8 | 9    | 10 | 11 | 12  | 13 | 14 |
| CALIPER                 |   |   |      |    |    |     |    |    |
| hole diameter in inches |   |   |      |    |    |     |    |    |
| Size                    |   |   | T.C. |    |    | 2   |    |    |
| 0                       |   |   | 0    |    |    | 0   |    |    |
| 120                     |   |   | 120  |    |    | 120 |    |    |
| 250                     |   |   | 250  |    |    | 250 |    |    |

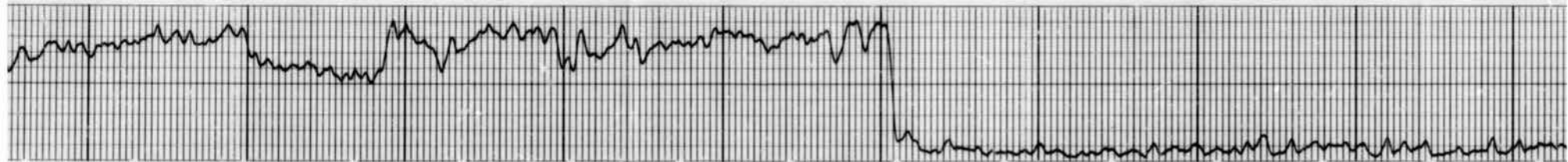
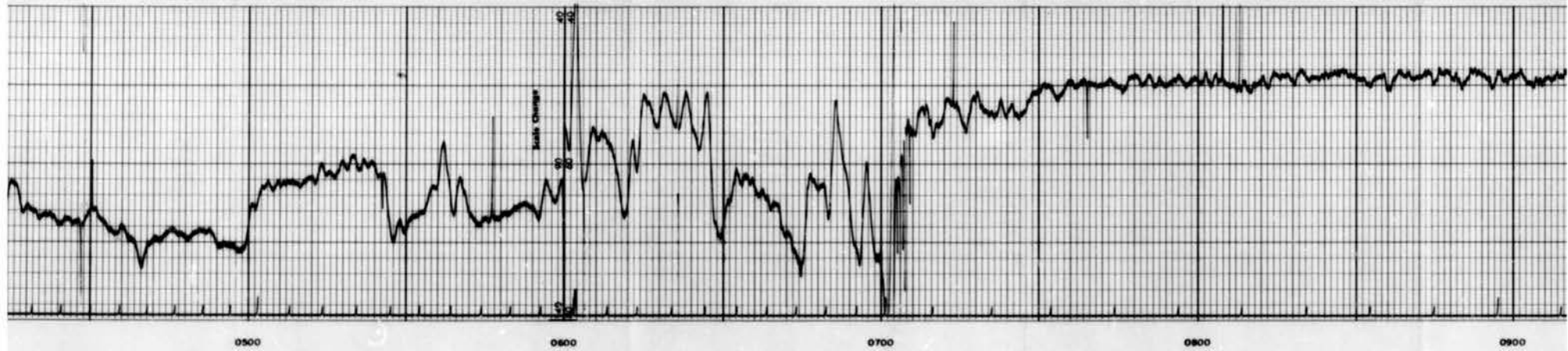


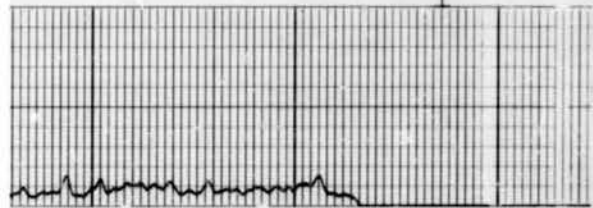
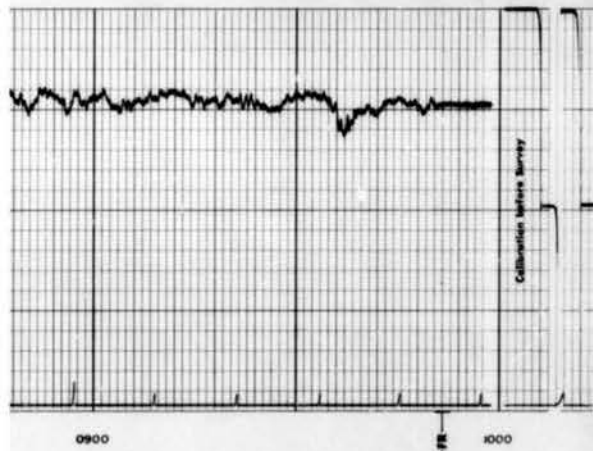
0200 0300 0400



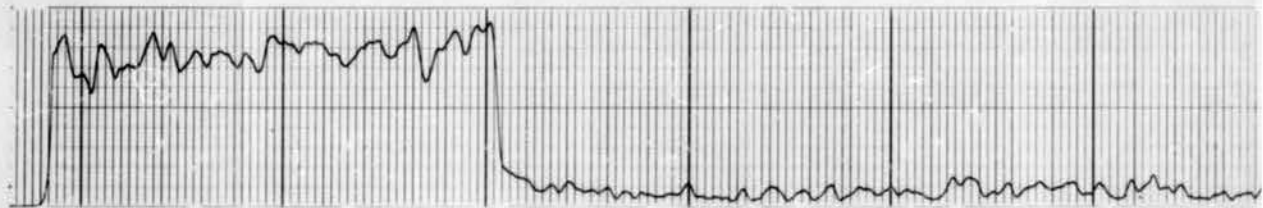
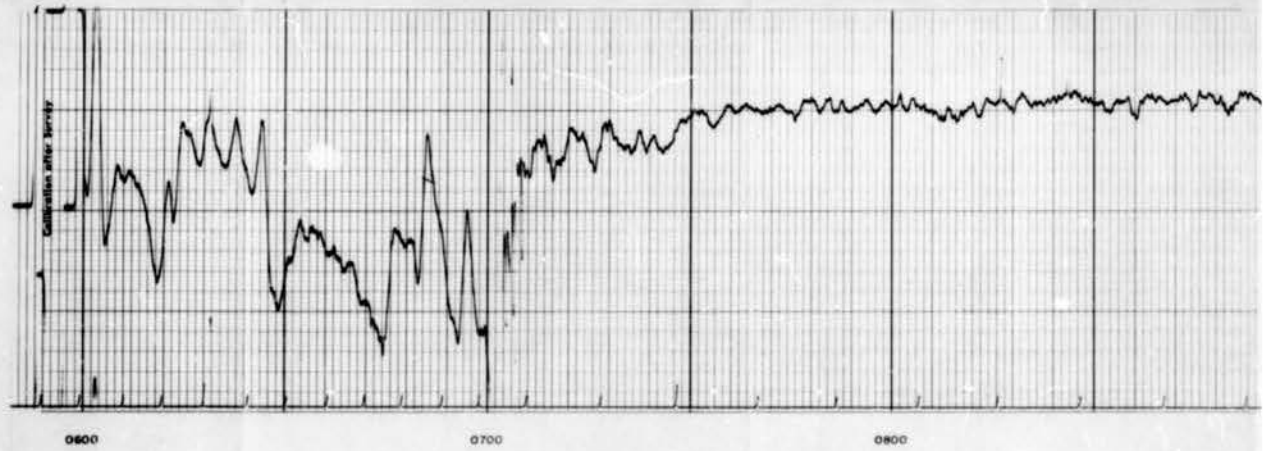
DETAIL LOG  
5' = 100'

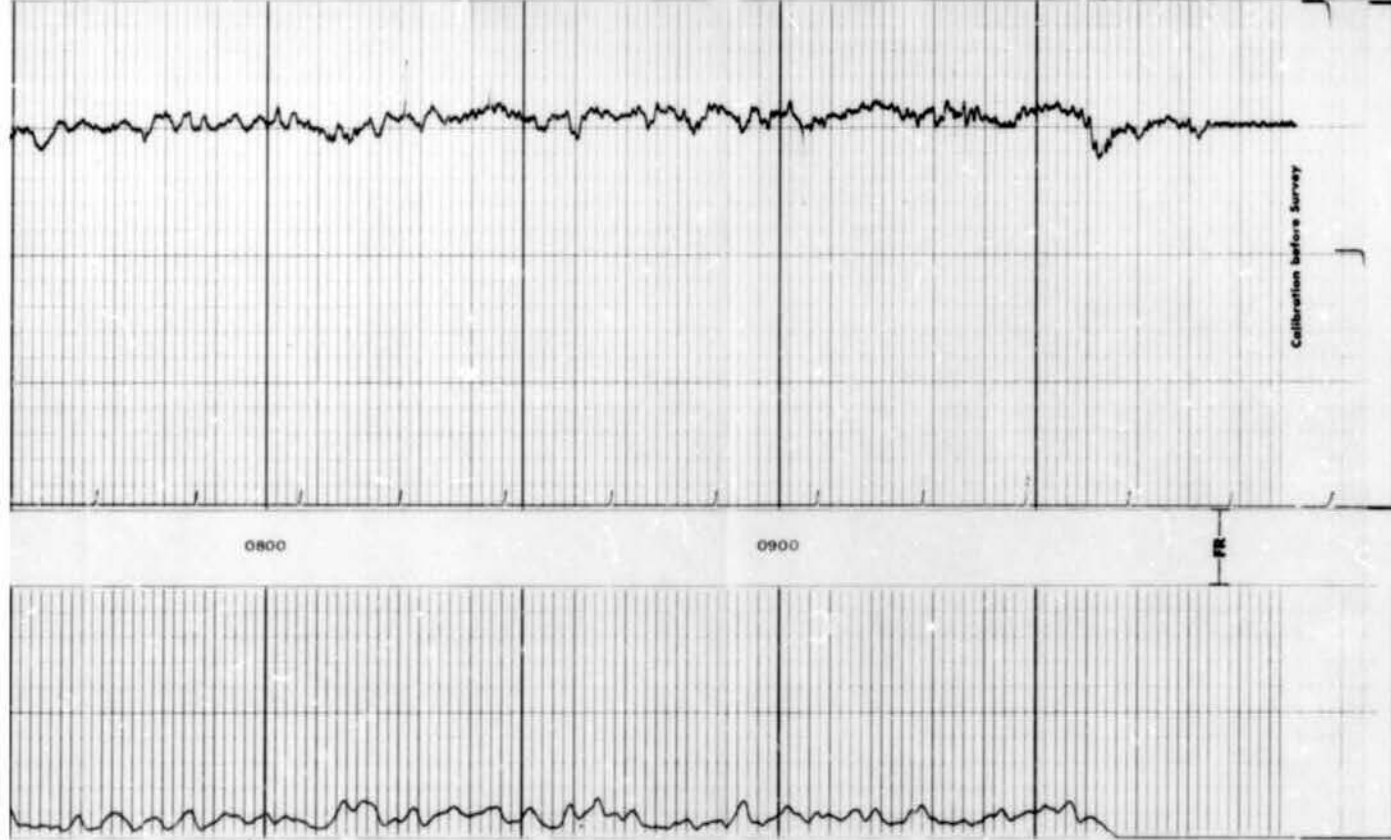
0200  
Casing





REPEAT SECTION





Calibration before Survey

6 7 8 9 10 11 12 13 14

**GAUGE**  
hole diameter in inches

Scale 100 1.0 2

Zero 0

120 240

Speed in FPM

12" 100 80 60 40

**GAMMA RAY**  
API UNITS

**SONIC**  
INTERVAL TRANSIT TIME  
microseconds per foot

COMPANY SHELL CANADA LIMITED

WELL SHELL BEAVER LAKE M-39 (A)

FIELD WILDCAT PROVINCE NORTHWEST TERRITORIES



## DAILY DRILLING REPORT

REPORT NO. 11 DATE *March 6/88*

| OPERATOR<br>SHELL CANADA LIMITED                   |  | LOCATION<br>LSD SEC TWP RGE W                      |                             | WELL NAME<br><i>BROWNE LAKE 22-A</i> |       | No.                   |                       | PROVINCE<br><i>N.W.T.</i> |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
|----------------------------------------------------|--|----------------------------------------------------|-----------------------------|--------------------------------------|-------|-----------------------|-----------------------|---------------------------|----------------------|-------------|-------|--------------------------------|--|-----------------|--|-----------------|--|-------------|--|------------------------------|--|------------------------------|--|------------------|--|------------|--|
| CONTRACTOR<br><i>BIG INDIAN</i>                    |  | RIG NO.<br>17                                      | DRILL PIPE STRING NO.<br>17 | TOOL JOINT NO.<br>17                 | PUMPS |                       | CASING & LINER RECORD | DEPTH SET FROM TO         | PERFORATIONS FROM TO | CEMENT USED | OTHER |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| OPERATOR'S REPRESENTATIVE<br><i>W. R. A. Smith</i> |  | CONTRACTOR'S TOOL PUSHER<br><i>John A. Forsyth</i> |                             | PUMPS                                |       | CASING & LINER RECORD | DEPTH SET FROM TO     | PERFORATIONS FROM TO      | CEMENT USED          | OTHER       |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| TIME DISTRIBUTION—HOURS                            |  | NO. DRILLING ASSEMBLY                              |                             | BIT RECORD                           |       | HRS. DRILL            |                       | CORE NO.                  |                      | FROM TO     |       | FORMATION (SHOW CORE RECOVERY) |  | TOTAL BT S.P.M. |  | WT. ON BIT LBS. |  | PUMP PRESS. |  | PUMP NO. 1 LINER SIZE S.P.M. |  | PUMP NO. 2 LINER SIZE S.P.M. |  | METHOD PUMPS RUN |  | MUD RECORD |  |
| DRILLING ACTUAL                                    |  | STANDS DP                                          |                             | FT. RUN NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| REAMING                                            |  | SINGLS DP                                          |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CIRCULATING                                        |  | D.C.                                               |                             | MFG.                                 |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| TRIPS                                              |  | D.C.                                               |                             | FT. TYPE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| DEVIATION SURVEY                                   |  | RMR BODY DP                                        |                             | FT. NO. NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| TEST R.O.P.                                        |  | ITS BODY DP                                        |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CUT OFF DRILL LINE                                 |  | SUBS DP                                            |                             | FT. SER. NO.                         |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| REPAIR RIG                                         |  | BIT ON C.S.                                        |                             | FT. DEPTH OUT                        |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CORING                                             |  | CUMULATIVE HOURS RUN                               |                             | FT. CONG. OF BIT                     |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| WIRE LINE LOGGING                                  |  | REAMER CUTTER NO.                                  |                             | FT. TOTAL                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| OTHER                                              |  | WT. OF STRING                                      |                             | LBS. TYPE                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| FISHING                                            |  | DRILLER                                            |                             |                                      |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| COMPLETING (AS PERMITTING)                         |  | NO. DRILLING ASSEMBLY                              |                             | BIT RECORD                           |       | HRS. DRILL            |                       | CORE NO.                  |                      | FROM TO     |       | FORMATION (SHOW CORE RECOVERY) |  | TOTAL BT S.P.M. |  | WT. ON BIT LBS. |  | PUMP PRESS. |  | PUMP NO. 1 LINER SIZE S.P.M. |  | PUMP NO. 2 LINER SIZE S.P.M. |  | METHOD PUMPS RUN |  | MUD RECORD |  |
| (B) RUNNING TUBING                                 |  | STANDS DP                                          |                             | FT. RUN NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| (C) SWABBING                                       |  | SINGLS DP                                          |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| (D) TESTING                                        |  | D.C.                                               |                             | MFG.                                 |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| (E) ACIDIZING                                      |  | D.C.                                               |                             | FT. TYPE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| (F) ADDITIONAL                                     |  | RMR BODY DP                                        |                             | FT. NO. NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| TOTALS                                             |  | ITS BODY DP                                        |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| TIME SUMMARY (OFFICE USE ONLY)                     |  | SUBS DP                                            |                             | FT. SER. NO.                         |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CONTRACTOR'S TIME HRS.                             |  | BIT ON C.S.                                        |                             | FT. DEPTH OUT                        |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| OPERATOR'S TIME                                    |  | CUMULATIVE HOURS RUN                               |                             | FT. CONG. OF BIT                     |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| HRS. W/B.P.                                        |  | REAMER CUTTER NO.                                  |                             | FT. TOTAL                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| HRS. WD/B.P.                                       |  | WT. OF STRING                                      |                             | LBS. TYPE                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| HRS. STANDBY                                       |  | DRILLER                                            |                             |                                      |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| WIRE LINE RECORD                                   |  | NO. DRILLING ASSEMBLY                              |                             | BIT RECORD                           |       | HRS. DRILL            |                       | CORE NO.                  |                      | FROM TO     |       | FORMATION (SHOW CORE RECOVERY) |  | TOTAL BT S.P.M. |  | WT. ON BIT LBS. |  | PUMP PRESS. |  | PUMP NO. 1 LINER SIZE S.P.M. |  | PUMP NO. 2 LINER SIZE S.P.M. |  | METHOD PUMPS RUN |  | MUD RECORD |  |
| REEL NO.                                           |  | STANDS DP                                          |                             | FT. RUN NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| LAD OF LINES SIZE                                  |  | SINGLS DP                                          |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| FEET SLIPPED                                       |  | D.C.                                               |                             | MFG.                                 |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| FEET CUT OFF                                       |  | D.C.                                               |                             | FT. TYPE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| PRESENT LENGTH                                     |  | RMR BODY DP                                        |                             | FT. NO. NO.                          |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| FOR ML. IN TRIP                                    |  | ITS BODY DP                                        |                             | FT. SIZE                             |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| SINCE LAST CUT                                     |  | SUBS DP                                            |                             | FT. SER. NO.                         |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CUMULATIVE                                         |  | BIT ON C.S.                                        |                             | FT. DEPTH OUT                        |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| FOR ML. IN TRIP                                    |  | CUMULATIVE HOURS RUN                               |                             | FT. CONG. OF BIT                     |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| NO. OF DAYS FROM SPUR                              |  | REAMER CUTTER NO.                                  |                             | FT. TOTAL                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
| CUMULATIVE ROTATING HRS.                           |  | WT. OF STRING                                      |                             | LBS. TYPE                            |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |
|                                                    |  | DRILLER                                            |                             |                                      |       |                       |                       |                           |                      |             |       |                                |  |                 |  |                 |  |             |  |                              |  |                              |  |                  |  |            |  |

12-00 4/10/01

REMARKS

MUD &amp; CHEMICALS ADDED

TYPE AMT. TYPE AMT.

MUD RECORD

TIME

WEIGHT

VISC

W.L.C.C.

FLTR. CK.

PH

SD CONT.

MUD &amp; CHEMICALS ADDED

TYPE AMT. TYPE AMT.

MUD RECORD

TIME

WEIGHT

VISC

W.L.C.C.

FLTR. CK.

PH

SD CONT.

MUD &amp; CHEMICALS ADDED

TYPE AMT. TYPE AMT.

MUD RECORD

TIME

WEIGHT

VISC

W.L.C.C.

FLTR. CK.

PH

SD CONT.

MUD &amp; CHEMICALS ADDED

TYPE AMT. TYPE AMT.

MUD RECORD

TIME

WEIGHT

VISC

W.L.C.C.

FLTR. CK.

PH

SD CONT.

MUD &amp; CHEMICALS ADDED

TYPE AMT. TYPE AMT.



### DAILY DRILLING REPORT

REPORT NO. 18

DATE MAR-5-1968

| OPERATOR                       |  | SHELL CANADA LIMITED |  | LOCATION                 |  | LSP             |  | SEC                          |  | TWP.                |  | RGE                     |  | W                     |  | WELL NAME                      |  | PROVINCE             |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
|--------------------------------|--|----------------------|--|--------------------------|--|-----------------|--|------------------------------|--|---------------------|--|-------------------------|--|-----------------------|--|--------------------------------|--|----------------------|--|------------------|--|-------------|--|-------------------------|--|-------------------------|--|-------------------|--|------------|--|
| CONTRACTOR                     |  | BIG INDIAN DRIG      |  | HSE NO.                  |  | 17              |  | DRILL PIPE STANDING NO. SIZE |  | TOOL JOINT TYPE THD |  | PUMPS                   |  | CASING & LINER RECORD |  | DEPTH SET FROM TO              |  | PERFORATIONS FROM TO |  | MUD RECORD       |  |             |  |                         |  |                         |  |                   |  |            |  |
| OPERATOR'S REPRESENTATIVE      |  | W. P. Allerton       |  | CONTRACTOR'S TOOL PUSHER |  | r/b 67 1/2 ft.  |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| TIME DISTRIBUTION—HOURS        |  | MORNING TOUR         |  | NO. DRILLING ASSEMBLY    |  | BIT RECORD      |  | HSE DELS                     |  | CORE NO.            |  | FROM                    |  | TO                    |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA BY S.P.M.       |  | W.T. ON BIT 1000 |  | PUMP PRESS. |  | PUMP NO. 1 LINER S.P.M. |  | PUMP NO. 2 LINER S.P.M. |  | METHODS PUMPS RUN |  | MUD RECORD |  |
| DRILLING ACTUAL                |  | 7 1/2                |  | STANDS DP                |  | FT. RUN NO. 2   |  |                              |  |                     |  | 882                     |  | 976                   |  |                                |  | 90                   |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| REAMING                        |  |                      |  | SINGLS DP                |  | FT. SIZE 6 1/2  |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| CIRCULATING                    |  |                      |  | B.C. ID                  |  | FT. MFG. Smith  |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| TRIPS                          |  |                      |  | B.H. BODY OD             |  | FT. NOZ. NO.    |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| DEVIATION SURVEY               |  |                      |  | B.H. BODY OD             |  | FT. SIZE        |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| TEST B.O.P.                    |  | 4                    |  | SUBS OD                  |  | FT. SER. NO. 45 |  | 1300                         |  |                     |  | SURFACE RIG - Check ROP |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| CUT OFF DRILL LINE             |  |                      |  | BIT OR C.B.              |  | FT. DEPTH OUT   |  |                              |  |                     |  | 4.15                    |  | DRIG.                 |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| REPAIR RIG                     |  |                      |  | CUMULATIVE HOURS RUN     |  | FT. 13          |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| CORING                         |  |                      |  | KELLY DOWN               |  | FT. 22          |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| WIRE LINE LOGGING              |  |                      |  | TOTAL                    |  | FT. 996         |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| OTHER                          |  |                      |  | WT. OF STRING            |  | LBS. TYPE       |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| FISHING                        |  |                      |  | DRILLER                  |  | R. L. L. L.     |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| COMPLETING (A) PERFORATING     |  |                      |  | NO. DRILLING ASSEMBLY    |  | BIT RECORD      |  | HSE DELS                     |  | CORE NO.            |  | FROM                    |  | TO                    |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA BY S.P.M.       |  | W.T. ON BIT 1000 |  | PUMP PRESS. |  | PUMP NO. 1 LINER S.P.M. |  | PUMP NO. 2 LINER S.P.M. |  | METHODS PUMPS RUN |  | MUD RECORD |  |
| (B) RUNNING TUBING             |  |                      |  | STANDS DP                |  | FT. RUN NO. 2   |  |                              |  |                     |  | 882                     |  | 976                   |  |                                |  | 90                   |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| (C) SWABBING                   |  |                      |  | SINGLS DP                |  | FT. SIZE 6 1/2  |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| (D) TESTING                    |  |                      |  | B.C. ID                  |  | FT. MFG. Smith  |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| (E) ACIDISING                  |  |                      |  | B.C. ID                  |  | FT. TYPE D.T.   |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| (F) ADDITIONAL                 |  |                      |  | B.H. BODY OD             |  | FT. NOZ. NO.    |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| TOTALS                         |  |                      |  | B.H. BODY OD             |  | FT. SIZE        |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| TIME SUMMARY (OFFICE USE ONLY) |  |                      |  | SUBS OD                  |  | FT. SER. NO. 45 |  | 1300                         |  |                     |  | SURFACE RIG - Check ROP |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| CONTRACTOR'S TIME HRS.         |  |                      |  | BIT OR C.B.              |  | FT. DEPTH OUT   |  |                              |  |                     |  | 4.15                    |  | DRIG.                 |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |
| OPERATOR'S TIME                |  |                      |  | CUMULATIVE HOURS RUN     |  | FT. 13          |  |                              |  |                     |  |                         |  |                       |  |                                |  |                      |  |                  |  |             |  |                         |  |                         |  |                   |  |            |  |







| OPERATOR                       |  | SHELL CANADA LIMITED  |  | LOCATION                 |  | LSD        |  | SEC        |  | TWP        |  | RSE    |  | W.                             |  | WELL NAME             |  | NO.        |  | PROVINCE      |  |
|--------------------------------|--|-----------------------|--|--------------------------|--|------------|--|------------|--|------------|--|--------|--|--------------------------------|--|-----------------------|--|------------|--|---------------|--|
| CONTRACTOR                     |  | B.C. INDIAN           |  | RIG NO.                  |  | 17         |  | DRILL PIPE |  | TOOL JOINT |  | DD     |  | PUMPS                          |  | MANUFACTURER          |  | TYPE       |  | STROKE LENGTH |  |
| OPERATOR'S REPRESENTATIVE      |  | W.R. DILLON           |  | CONTRACTOR'S TOOL PUSHER |  | TYPE THD   |  | 1          |  | G.D.       |  | P.X.D. |  | 10                             |  | CASING & LINER RECORD |  | SIZE       |  | WT & GR       |  |
| TIME DISTRIBUTION—HOURS        |  | NO. DRILLING ASSEMBLY |  | BIT RECORD               |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| DRILLING ACTUAL                |  | STANDS DP             |  | FT. RUN NO.              |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| REAMING                        |  | SHOUL. DP             |  | FT. SIZE                 |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| CIRCULATING                    |  | B.C. ID               |  | MFG.                     |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TRIPS                          |  | B.C. OD               |  | FT. TYPE                 |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| DEVIATION SURVEY               |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TEST R.O.P.                    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| CUT OFF BRISA LINE             |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| REPAIRS RIG                    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| CORING                         |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| WIRE LINE LOGGING              |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| OTHER                          |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| FISHING                        |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| COMPLETING (AI) PERFORATING    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| C.I. SWABBING                  |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| C.I. TESTING                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| C.I. ACIDIZING                 |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| C.I. ADDITIONAL                |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TOTALS                         |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TIME SUMMARY (OFFICE USE ONLY) |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| CONTRACTOR'S TIME HRS.         |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| OPERATOR'S TIME                |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| HRS. W/D.P.                    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| HRS. W/D.P.                    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| HRS. STANDBY                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| WIRE LINE RECORD               |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| HRS. NO                        |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| NO. OF LINES                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| FEET SLIPPED                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| FEET CUT OFF                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| PRESENT LENGTH                 |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TOM MI. W. TRIPS               |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| TOM MI. W. TRIPS               |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| NO. OF DAYS                    |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| FROM SPUD                      |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| CUMULATIVE                     |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |
| ROTATING HRS                   |  | B.C. OD               |  | FT. NO.                  |  | HRS. DRILL |  | CORE NO.   |  | FROM       |  | TO     |  | FORMATION (SHOW CORE RECOVERY) |  | ROTA. BY              |  | WT. ON BIT |  | PUMP PRESS.   |  |





