

GLACIER BAYSEL-CLIMAX

RAMPARTS No. 1 P-55

Drilling Authority No.

Date Issued

WELL NAME Glacier-Baysel-Climax Ramparts No. 1 P-55

FIELD Wildcat

Area: Fort Good Hope

LOCATION: Unit

Section 55

Grid 66 20 28 30

Latitude 66°14'28" N.

Longitude 128°39'48" W.

From Established Reference Marker

Rig Release Date: 23-9-60

Status D & A

Information Release Date 23-9-62

CHANGE OF NAME:

| DATE RECEIVED | INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>Application for a Drilling Authority.</p> <p>Well Completion Data.</p> <p>Well History Report.</p> <p>Application to Amend a Drilling Authority.</p> <p>Application to change a Well Name.</p> <p>Application to Abandon a Well or Suspend Drilling.</p> <p>Application to Alter Condition of a Well.</p> <p>Well History Supplement.</p> <p>Well Completion Data.</p> <p>Work-over Report No.</p> <p>Application to Commingle Production before Measurement.</p> <p>Approval to Commingle Production before Measurement.</p> <p>Application to Amend Approval No. to Commingle Production before Measurement.</p> <p>Application for M.P.R.—Oil.</p> <p>New Oil Well Report.</p> <p>New Gas Well Report.</p> <p>Well Inspection Report.</p> <p>Rig Inspection Report.</p> <p>Battery Inspection Report.</p> <p>Field Abandonment Programme and Approval.</p> <p>Well Card.</p> <p>Well Visit.</p> <p>Daily Drilling Reports.</p> |

## DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

## NORTHERN ADMINISTRATION BRANCH

## RESOURCES DIVISION

For the period from .August 31, 1960.

to .September 23, 1960.

REPORT of ~~CONSTRUCTION~~  
~~REPAIR~~  
~~RECONSTRUCTION~~ of a Well  
~~SUSPENSION~~  
 ABANDONMENT

Permit No. 1534 . .

Name of well . . Glacier Bayrel-Climax Ramparts No. 1 . . . . Lease No. . . . .

Registered owner Glacier Explorers Limited Drilling Company Big Indian Drilling Company Ltd. . . .

Location . . 66° 14' 48" . . . . . N. LAT. 128° 39' 43" . . . . W. Long.

Survey description, if available . . . . not available . . . . .

Elevation: Ground . . 70.5' . . Last previous depth . . . 1544' . . . . .

Kelly bushing . . 78' . . Present depth Plugged and abandoned . . .

Spudded . . August 31, 1960 . . . . . Finished drilling Sept. 22. Rig Released  
 . September 23, 1960

Deviations from vertical 2° at 153'; 1° at 500'; 1° at 1014'; .5° at 1520' . . .

CASING RECORD

| Date         | Size O.D. | Weight<br>lbs/ft | Grade     | Set at<br>feet | Sacks<br>Cement | Top of<br>Cement |
|--------------|-----------|------------------|-----------|----------------|-----------------|------------------|
| 1 Sept. 1/60 | 6 5/8"    | .24              | J-55      | .153           | .30             | Surface          |
| 2 . . . . .  | . . . . . | . . . . .        | . . . . . | . . . . .      | . . . . .       | . . . . .        |
| 3 . . . . .  | . . . . . | . . . . .        | . . . . . | . . . . .      | . . . . .       | . . . . .        |
| 4 . . . . .  | . . . . . | . . . . .        | . . . . . | . . . . .      | . . . . .       | . . . . .        |

TUBING RECORD

| Size      | Wt. Lbs/foot | Grade          | Amount    | Landed<br>Depth | Remarks   |
|-----------|--------------|----------------|-----------|-----------------|-----------|
| . . . . . | . . . . .    | . . . . .      | . . . . . | . . . . .       | . . . . . |
| . . . . . | . . . . .    | . . . . .      | . . . . . | . . . . .       | . . . . . |
| Wellhead  | . . . . .    | (Manufacturer) | . . . . . | (Size)          | (Series)  |

Sp. of well on completion of drilling Drilling and from 154' to surface.

Producing Zone . . . . . and formation . . . . .

Stack intervals . . 1+ . . 96% = 956 . . . . .

2. 956 - 966

3. 1491<sup>o</sup> - 1497<sup>o</sup>

Interval logged: E-log 1527! to surface. . Other logs . . . . .

R-log . . . . .

M-log . . . . .

Velocity log . . . . .

The above logs ~~(are)~~  
(will be) submitted in accordance with Section 65 of the  
Regulations.

## DRILL STEM TESTS

[illegible]

(If space insufficient, attach further sheet)

(Strike out the non-applicable)    (Completion)    (Rework)    (Recompletion)

Perforations Bullet. . . . .

Shootings . . . . .

Hydraulic fracturing . . . . .

Chemical treatment . . . . .

Date initial production tests . . . . .

Initial production data



Pumping or flowing . . . . .  
Plug back . . . . .  
Other . . . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .

CEMENT PLUGS SET

| <u>Date</u> | <u>Plug set at</u> | <u>Sacks cement</u> | <u>Method</u>  | <u>Top found at</u> |
|-------------|--------------------|---------------------|----------------|---------------------|
| Sept. 22/60 | . 1544' .          | . 23. . . .         | . Displacement | . 1360' . .         |
| Sept. 22/60 | . 1100' .          | . 30. . . .         | . Displacement | . 860' . .          |
| Sept. 22/60 | . 205' . .         | . 19. . . .         | . Displacement | . . . . .           |
| Sept. 23/60 | . . . . .          | . 16. . . .         | . Displacement | . 111' . .          |
| . . . . .   | . . . . .          | . . . . .           | . . . . .      | . . . . .           |

Washed well samples ~~have been~~ sent to Geological Survey of Canada, Calgary  
~~will be~~

Cores will be stored at . . Geological Survey of Canada, Calgary . . . . .

Core analysis (was made) of the Intervals . . . . .  
(to be made)

Oil analysis (was made) of the Intervals. . . . .  
(to be made)

Gas analysis (was made) of the Intervals. . . . .  
(to be made)

Water analysis (was made) of the Intervals 1439' to 1544' . . . . .  
(to be made)

The above analyses (are)  
(will be) submitted in accordance with Section 70(2) of  
the Regulations.

ADDITIONAL DETAILS AND COMMENTS

. Steel plate with attached well sign welded on top of surface casing' . . .  
. . . . .  
. . . . .  
. . . . .  
. . . . .

J. C. SPROULE AND ASSOCIATES LTD.  
Signed. . . *Norman Soul* . . . Address 1009 Fourth Avenue S.W.,  
per Norman Soul Calgary  
Date October 4, 1960 . . . . .

(To be submitted in triplicate in accordance with Sections  
68, 69, 70 and 71, of the Territorial Oil and Gas Regulations  
to the Oil Conservation Engineer at Calgary, Alberta.)

C A N A D A

NORTHERN ADMINISTRATION BRANCH

**RESOURCE DIVISION**

**ABANDON**

NOTICE OF INTENTION TO \_\_\_\_\_ or \_\_\_\_\_ a Well

~~SUSPENDED DRILLING~~

(Strike out operation which does not apply)

In accordance with Sections 48 & 49 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

... abandon ... the well named ~~Glacier Bayed-Elinar Ramparts~~ on Oil  
No. 1

Permit No. 3594 . . . . .  
and Gas Registered in the name of . . . . .  
Lease No. . . . .  
Glacier Explorers Limited . . . . .

Depth - 254.4 feet.      Elevation above sea level:

|  |                |       |            |
|--|----------------|-------|------------|
|  | Ground surface | .100. | ft. approx |
|  | Kelly bushing  | .107. | ft. approx |

Location . 66° 14' 48" . . . . . N. Lat. 128° 39' 19" . . . . . W. Long.

|            |                       |                               |
|------------|-----------------------|-------------------------------|
| • 28,500'. | • (N. of S. boundary) | (Permit No. . 1534 . . . . .) |
|            | (S. of N. boundary)   | (Lease No. . . . .)           |
| • 24,300'. | • (W. of E. boundary) | (Permit No. . 1534 . . . . .) |
|            | (E. of W. boundary)   | (Lease No. . . . .)           |

Survey description, if available . . . . . not available . . . . .

# CASING RECORD

| <u>Size O.D.</u>     | <u>Weight</u> | <u>Grade</u> | <u>Amount</u> | <u>Set at</u> | <u>Sacks</u>  | <u>Method</u> | <u>to be</u>     |
|----------------------|---------------|--------------|---------------|---------------|---------------|---------------|------------------|
| <u>inches</u>        | <u>lbs/ft</u> |              | <u>feet</u>   | <u>feet</u>   | <u>cement</u> |               | <u>withdrawn</u> |
| 1 . 7 <sup>m</sup> . | . 20 .        | J-55         | . J66 .       | . 153 .       | . 30 .        | . . .         | . . . . .        |
| 2 . . . .            | . . . .       | .            | . . . .       | . . . .       | . . . .       | . . . .       | . . . . .        |
| 3 . . . .            | . . . .       | .            | . . . .       | . . . .       | . . . .       | . . . .       | . . . . .        |
| 4 . . . .            | . . . .       | .            | . . . .       | . . . .       | . . . .       | . . . .       | . . . . .        |

## OIL, GAS AND WATER

[illegible][illegible]

Gas from . 936 . feet to . 906 . feet  
Estimated 250 Mcf./day

From 1100 feet to . 860 . feet with 30 . .  
sacks of cement.

Gas from . . . . feet to . . . . feet

From . . . . feet to . . . . feet with . . . .  
sacks of cement.

Water from . 1439 . feet to 1544 feet  
Flow rate of surface on D.S.T. 35  
barrels/hrs.

From 1544 . feet to 1360 . feet with . 23 .  
sacks cement.

Water from . . . . feet to . . . . feet

From . . . . feet to . . . . feet with . . . .  
sacks cement.

Surface and bottom plugs:

1. from . 1544 . feet to . 1360 . feet with . 23 . .sacks cement.
2. from . 1100 . feet to . 860 . feet with . 30 . .sacks cement.
3. from . 385 . feet to . 200 . feet with . 19 . .sacks cement.

Date of last operation . . . September 23 . . . . . Total depth . 1544 . . . .

Nature of liquid left in well . . . . . Level from surface . . . . .  
on suspension or abandonment

The following logs ~~was~~ run . . . . .  
have been

. . . . . Electrical . . . . .

Produced from . . . . . zone and . . . . .  
on abandonment of a well which has been on production.

Present condition of well in addition to above Fifteen additional sacks of . . .  
.. cement added above plug No. 3. . . . .

On abandonment or suspension of drilling we shall comply with Sections 68, 69 and  
70 of the Regulations.

Program of operation not included above . . . . .  
. . . . .  
. . . . .  
. . . . .

Responsible agents of permittee or lessee in charge of operation:

At well . . . Norman Sproule . . . . . Postal address Fort. Good Hope, N. W. T. . .  
J. C. Sproule and Associates P.O. Box 525, 1009 Fourth Ave.  
At registered office . . . . . Ltd. . . . Postal address S. W., Calgary, Alberta, . .

It is understood that if changes in this Notice of Intention become  
necessary we will promptly notify you.

dated at . Calgary . . . this . 27th . . day of . September . . . . . 19.60 .

Signed by . *S. R. L. HARRING* . . . . .  
S. R. L. HARRING  
J. C. SPROULE AND ASSOCIATES LTD.

This program is approved subject to the following provisions

The discrepancies with tour reports as discussed with Mr. Harding will  
be cleared up on the Abandonment Notices. This also confirms oral approval  
to abandon given 23rd September.

28th September, 1960.  
Date

*B. H. Jones*  
Oil Conservation Engineer

(To be submitted in triplicate to the Oil Conservation  
Engineer at Calgary, Alberta.)

FORM "A"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

~~TO CARRY OUT A STRUCTURE TEST PROGRAM~~

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 1534. . . registered in the name of ~~Lessee No.~~ . . . . .

TYPE OF WELL:

Wildcat . . . . . I . . . . .

Development . . . . .

Expected total depth . . 1,500 . . . . . feet, in the Bear Rock formation of . . . Devonian . . . . . age.

The well will be located at 66° 14' 36" . . . . . N. Lat. . . . . 128° 40' 30" W. Long. approx.

. 27,100' . . (N. of S. boundary) (Permit No. . 1534 . . . . .)  
(S. of N. boundary) of (Lease No. . . . .)  
. 11,100' . . (W. of E. boundary) of (Permit No. . 1534 . . . . .)  
(E. of W. boundary) (Lease No. . . . .)

Survey description of Location, if known ~~Unsurveyed.~~ Located on the east bank and immediately below the Ramparts of the Mackenzie River

Approximate surface elevation of . 100 . . . . . feet above sea level.

Name of well . ~~Glacier-Baysal-Climax Ramparts No. 1.~~ . . . . .

Type of drilling rig . . . . . Rotary . . . . .

Expected date of commencement . . August 27, 1960 . . . . .

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

| Size O.D.<br>Inches | Weight<br>lbs/ft | Grade     | Brand     | New or<br>Used | Estimated<br>Depth | Sacks of<br>Cement |
|---------------------|------------------|-----------|-----------|----------------|--------------------|--------------------|
| 1. .70 . .          | . 20. .          | . J-55.   | . . . . . | . New. .       | . 150. .           | . . 50. .          |
| 2. . . . .          | . . . . .        | . . . . . | . . . . . | . . . . .      | . . . . .          | . . . . .          |
| 3. . . . .          | . . . . .        | . . . . . | . . . . . | . . . . .      | . . . . .          | . . . . .          |

Expected depth of water, gas and oil horizons and method of control:

..... 800' - 1,500' .....

..... Drilling Mud and Flowout Prevention Equipment .....

.....

.....

An electric log <sup>will</sup> be run <sup>Other logs</sup> ~~will~~ be run  
~~will not~~ <sup>will not</sup>

STRUCTURE TEST PROGRAM

Proposed number of holes ..... Maximum well depth .....  
enclosed within an area bounded by

..... N. Latitudes

..... W. Longitudes

An electric log <sup>will</sup> be run <sup>Other logs</sup> <sup>will</sup> be run  
<sup>will not</sup> <sup>will not</sup>

Name and address of drilling contractor Big Indian Drilling Co. Ltd., ..  
513 Eighth Avenue S. W. .....  
Calgary, Alberta .....  
.....

Responsible agents of permittee or lessee in charge of operation:

Norman Soul

At well c/o J.C. Sproule and Associates Limited ..... Postal address Fort. Good Hope, N.W. T.

At registered office J.C. Sproule and Associates Limited ..... 1009 Fourth Avenue S. W.  
Postal address Calgary, Alberta. .....

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

Dated at Calgary this 23 ..... day of August ..... 19 60 .....

Signed by J. R. Harding ..

This program is approved subject to the following provisions (if any):  
J.C. Sproule and Associates Limited

..... The depth of the surface casing shall not be less than 150 feet  
and it shall, if necessary be increased to ensure that at least 100 feet  
are below bedrock. ....

..... Reports received by radio on the wells's progress shall be  
telephoned to this office. ....

24th August, 1960 .....  
Date

B. H. Shorn .....  
Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at  
least 15 days prior to the commencement of drilling)



File No. ....  
Drilling Authority No. .... NA .....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Norman Wells Date: 11th July 1971

TO: The Oil Conservation Engineer:

RE: Glacier et al Ramparts No. 1

Location: 66°14'44"N., 128°39'47"W. Status: D & A September 1960

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

The location is in satisfactory/unsatisfactory condition. T.D. 1544°

The following items require attention:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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

Could not locate site; if known, provide description of terrain and condition of  
lease to aid in next inspection trip.

Inspected by M. D. Thomas

Original to Oil Conservation Engineer, Dept of IA & ND. Duplicate to Field Office or Inspecting Engineer. M. D. Thomas  
District 2

IAND S2-90-14 (9-69)



GEOLOGICAL AND ENGINEERING REPORT

GLACIER BAYSEL CLIMAX TAMPARTS No. 1.

FORT GOOD HOPE AREA, NORTHWEST TERRITORIES

*J. C. Sproule and Associates Ltd.*

OIL AND GAS ENGINEERING AND GEOLOGICAL CONSULTANTS

CALGARY, ALBERTA



GEOLOGICAL AND ENGINEERING REPORT  
GLACIER BAYSEL CLIMAX RAMPARTS NO. 1  
FORT GOOD HOPE AREA, NORTHWEST TERRITORIES

J. G. SPROULE AND ASSOCIATES LTD.  
OIL AND GAS ENGINEERING AND GEOLOGICAL CONSULTANTS

1009 FOURTH AVENUE WEST  
CALGARY - ALBERTA

TELEPHONE  
AMHERST 9-7951

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## ILLUSTRATION

|                                                                                                                                                               |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Map showing P. & N. G. Permit 1534, Fort Good Hope Area,<br>N. W. T., showing location of Glacier Bayseil Climax<br>Ramparts No. 1 and Hare Indian S.T. No. 1 | In pocket |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|

SUMMARY OF PERTINENT WELL DATA

Well Name: Glacier Baysel Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

Elevation: Ground 70.5'  
K. B. 78'

Total Depth: 1,544 feet.

Operator: Glacier Explorers Limited

Technical Supervision:

J. C. Sproule and Associates Ltd.  
Norman Soul, Geologist

Drilling Contractor:

Big Indian Drilling Company Limited,  
Rig 5, Maynew 1500.

Spudded: August 31, 1960

Completed: September 23, 1960

Status: Plugged and Abandoned

| <u>Geological Markers:</u> | <u>Marker</u>   | <u>Depth</u><br>Feet | <u>Elevation</u><br>Feet |
|----------------------------|-----------------|----------------------|--------------------------|
|                            | Middle Ramparts | Surface              | 78                       |
|                            | Lower Ramparts  | 585                  | -507                     |
|                            | Bear Rock       | 1,040                | -962                     |
|                            | Total Depth     | 1,544                | -1,466                   |

| <u>Core Summary:</u> | <u>No.</u> | <u>Interval</u><br>Feet | <u>Recovery</u><br>Feet |
|----------------------|------------|-------------------------|-------------------------|
|                      | 1          | 946-956                 | 10.0                    |
|                      | 2          | 956-966                 | 10.0                    |
|                      | 3          | 1491-1497               | 0.1                     |

| <u>Drilling Data</u> | <u>Hole Size</u><br>Inches | <u>From</u><br>Feet | <u>To</u><br>Feet |
|----------------------|----------------------------|---------------------|-------------------|
|                      | 8 5/8                      | Surface             | 153               |
|                      | 4 3/4                      | 153                 | 1544              |

Deviation Surveys

| <u>Depth</u><br>Feet | <u>Deviation</u><br>Degrees |
|----------------------|-----------------------------|
| 153                  | 2                           |
| 500                  | 1                           |
| 1014                 | 1                           |
| 1520                 | 5                           |

Casing:

Surface: 6 joints, 145.50' x 6 5/8" x 24 lb. J-55 new Phoenix casing set at 153' K.B. Cemented with 30 sacks, September 1, 1960.

Summary of

Drill Stem Tests:

No. 1: 936'-946'. V.O. 1 hour. Gas to surface in 2 minutes at estimated 1/4 MMcf. per day, September 9, 1960. - *R.C. To mud - No charts*

No. 2: 1439'-1544'. V.O. 1 hour. Salt water to surface in 6 minutes at estimated 25 bbls. per hour. September 22, 1960. - *No charts.*

Abandonment

Program:

Plug No. 1 - 23 sacks cement from 1,544' to 1,360'.  
Plug No. 2 - 30 sacks cement from 1,100' to 860'.  
Plug No. 3 - 35 sacks cement from 205' to 111'.

Logs:

Electronic Logging and Velocity Company Ltd.

Run No. 1 - Surface to 153' K. B.

Run No. 2 - 153'-1,224'.

Run No. 3 - 153'-1,527' (a) One inch to 50 feet.  
(b) One inch to 20 feet.

*Two Plugs:*

(a) 205 - 100 w/195x - Not set up.

(b) 200 - 100 w/165x  
Top at 111'

DAILY CHRONOLOGICAL WELL REPORT

Well Name: Glacier Bayse Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

Operations Ending 12:00 Midnight

| <u>Date</u> | <u>Total<br/>Depth<br/>Feet</u> | <u>Progress<br/>Feet</u> | <u>Days</u> | <u>Remarks</u>                                                                                                                                                                                                                                                                                                          |
|-------------|---------------------------------|--------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| August 31   | 125                             | 117                      | 1           | Big Indian Drilling Co. Ltd., Rig No. 5., Mayhew 1500, spudded at 6:30 a.m. Drilling 8 5/8" hole with Bit No. 1. Working on pump 3 3/4 hours.                                                                                                                                                                           |
| September 1 | 153                             | 28                       | 2           | Drilled to 153' with Bit No. 1 at 7:00 a.m. Pulled out. Ran electric log. Made clean-out trip. Ran six joints of 6 5/8" x 24 lb. casing with Davis float collar and Larkin guide shoe. Cemented casing with 30 sacks mixed by hand in barrels. Pumped plug down at 5:30 p.m. 145.5' set at 153' K.B. Standing cemented. |
| September 2 | 153                             | -                        | 3           | Installed blow-out preventor. Pump washed out. Waiting on pump parts 6 1/2 hours.                                                                                                                                                                                                                                       |
| September 3 | 153                             | -                        | 4           | Waiting on pump parts 24 hours.                                                                                                                                                                                                                                                                                         |
| September 4 | 153                             | -                        | 5           | Repaired mud pump. Drilled out plug and cement to shoe from 6:00 p.m. Working on blowout preventor from 11:00 p.m.                                                                                                                                                                                                      |
| September 5 | 607                             | 454                      | 6           | Worked on B.O.P. to 3:30 a.m. Pressured up. Drilled 4 3/4" hole with Bit No. 2 from 153' to 167' at 4:15 a.m. Drilled to 586' at 3:45 p.m. with Bit No. 3. Drilled to 593' at 7:20 p.m. with Bit No. 4. Drilling with Bit No. 5.                                                                                        |
| September 6 | 707                             | 100                      | 7           | Drilled to 669' at 12:20 p.m. with Bit No. 5. Drilling with Bit No. 6.                                                                                                                                                                                                                                                  |
| September 7 | 824                             | 117                      | 8           | Drilled to 708' at 12:30 a.m. with Bit No. 6. Drilled to 752' at 1:45 p.m. with Bit No. 7. Drilling with Bit No. 8.                                                                                                                                                                                                     |

| <u>Date</u>  | <u>Total<br/>Depth<br/>Feet</u> | <u>Progress<br/>Feet</u> | <u>Days</u> | <u>Remarks</u>                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|---------------------------------|--------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| September 8  | 939                             | 115                      | 9           | Drilled to 885' at 9:45 a.m. with Bit. No. 8. Repaired pump. Drilled to 939' at midnight with Bit No. 9.                                                                                                                                                                                                                                                                                                |
| September 9  | 946                             | 7                        | 10          | Made trip and repaired rotary table. Started drilling at 5:15 a.m. with Bit No. 10. Drilled to 946' at 7:30 a.m., encountered gas flow and well started to blow out. Closed B.O.P. Mixed barite and gel and killed well. Pulled out at 5:00 p.m. Ran drill stem test No. 1 from 936' to 946'. Recovered gas at estimated 1/4 MMcf. per day. Out of hole at 10:30 p.m. Running in hole with core barrel. |
| September 10 | 982                             | 36                       | 11          | Cut Core No. 1, 946'-956' from 12:40 a.m. to 3:48 a.m. and recovered ten feet. Reamed rat hole from 6:30 a.m. to 8:30 a.m. Cut Core No. 2, 956'-966' from 11:15 p.m. to 1:45 p.m. and recovered ten feet. Reamed rat hole from 3:30 p.m. to 5:00 p.m. Mixed mud. Drilled to 982' from 5:30 p.m. to 11:40 p.m. with Bit No. 10. Tripping.                                                                |
| September 11 | 1045                            | 63                       | 12          | Drilled to 1030' from 1:30 a.m. to 5 p.m. with Bit No. 11. Drilling with Bit No. 12.                                                                                                                                                                                                                                                                                                                    |
| September 12 | 1103                            | 48                       | 13          | Drilled to 1071' at 12:45 p.m. with Bit No. 12. Drilling from 2:10 p.m. with Bit No. 13. Started losing mud to formation at 1081'. Mixed mud 1/2 hour. Samples show some porosity from 1080' to 1095' and also have a marked petroleum odour.                                                                                                                                                           |
| September 13 | 1168                            | 65                       | 14          | Drilled to 1121' at 6:20 a.m. with Bit No. 13. Drilling from 7:50 a.m. with Bit No. 14.                                                                                                                                                                                                                                                                                                                 |
| September 14 | 1211                            | 43                       | 15          | Drilled to 1175' at 3:00 a.m. with Bit No. 14. Drilling from 5:00 a.m. with Bit No. 15. Losing mud to formation at 1178'.                                                                                                                                                                                                                                                                               |

| <u>Date</u>       | <u>Total<br/>Depth<br/>Feet</u> | <u>Progress<br/>Feet</u> | <u>Days</u> | <u>Remarks</u>                                                                                                                                                                                                                                                                      |
|-------------------|---------------------------------|--------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| September 15 1259 |                                 | 48                       | 16          | Drilled to 1223' at 4:20 a.m. with Bit No. 15. Ran Electronic Logging & Velocity electric log from 5:40 a.m. to 7:30 a.m. Drilling from 8:30 a.m. with Bit No. 16. Replacing broken pump rod from 11:30 p.m.                                                                        |
| September 16 1302 |                                 | 43                       | 17          | Drilled to 1262' with Bit No. 16 at 2:00 a.m. Pulled out of hole and found bit and bit sub twisted off and left in hole. Picked up fish on first run with spear. Fish out at 7:45 a.m. Drilling from 9:30 a.m. with Bit No. 17.                                                     |
| September 17 1357 |                                 | 55                       | 18          | Drilled to 1306' with Bit No. 17 at 1:55 a.m. Drilled to 1357' with Bit No. 18 from 4:05 a.m. to 9:45 p.m. On bottom drilling with Bit No. 19.                                                                                                                                      |
| September 18 1420 |                                 | 63                       | 19          | Drilled to 1410' with Bit No. 19 at 6:25 p.m. Drilling with Bit No. 20 from 8:00 p.m.                                                                                                                                                                                               |
| September 19 1463 |                                 | 43                       | 20          | Drilled to 1448' with Bit No. 20 at 3:15 p.m. Replaced broken pump rod 1 1/4 hours. Drilling with Bit No. 21 from 4:45 p.m..                                                                                                                                                        |
| September 20 1502 |                                 | 39                       | 21          | Drilled to 1491' at 11:55 a.m. with Bit No. 21. Ran in with core barrel and cut Core No. 3, 1491'-1497' from 2:10 p.m. to 5:23 p.m. Core jammed in barrel. Pulled out. No recovery. Reamed rat hole from 7:30 p.m. to 8:30 p.m. Mixed mud. Drilling from 9:30 p.m. with Bit No. 22. |
| September 21 1533 |                                 | 31                       | 22          | Drilled to 1525' at 1:20 p.m. with Bit No. 22. Ran Electronic Logging & Velocity electric log from 2:30 p.m. to 5:00 p.m. Logged depth 1527'. Drilling with Bit No. 23 while waiting for clocks for testing tool.                                                                   |
| September 22 1544 |                                 | 11                       | 23          | Drilled to 1544' at 6:30 a.m. with Bit No. 23. Pulled out to run drill stem test No. 2 from 1439' to 1544'. Valve                                                                                                                                                                   |

| <u>Date</u>  | <u>Total<br/>Depth<br/>Feet</u> | <u>Progress<br/>Feet</u> | <u>Days</u> | <u>Remarks</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|---------------------------------|--------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                                 |                          |             | open from 11:55 a.m. to 12:55 p.m. Mud followed by sulphurous salt water to surface in five minutes measured at 20 gallons per minute. Out of hole at 3:00 p.m. Ran in to bottom with open end drill pipe. Set Plug No. 1 - 23 sacks cement from 1544' to 1360'. In place at 5:25 p.m. Pulled 20 singles and set Plug No. 2 - 30 sacks cement from 1100' to 860'. In place at 6:50 p.m. Pulled 45 singles and set Plug No. 3 - 19 sacks cement from 205'. In place at 8:45 p.m. Pulled out. Standing cemented. |
| September 23 | 1544                            | -                        | 24          | Ran in to feel for Plug No. 3 at 7:15 a.m. Cement not hardened. Ran additional 16 sacks cement with 2% $\text{CaCl}_2$ . Plug down at 8:00 a.m. Felt plug at 5:30 p.m. at 111'. Tore down and loaded equipment on barge. Ready to move at 10:00 p.m. Welded steel plate and well sign on top of surface casing.                                                                                                                                                                                                |



BIT RECORD

Well Name:

Glacier Baysel Climax Ramparts No. 1

Location:

66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

| <u>No.</u> | <u>Make</u>          | <u>Type</u> | <u>Size</u><br><u>Inches</u> | <u>Depth</u>               |                          | <u>Footage</u> | <u>Hours</u> |
|------------|----------------------|-------------|------------------------------|----------------------------|--------------------------|----------------|--------------|
|            |                      |             |                              | <u>From</u><br><u>Feet</u> | <u>To</u><br><u>Feet</u> |                |              |
| 1          | Hughes               | R.R.O.W     | 8 5/8                        | Surface                    | 153                      | 145            | 18           |
| 2          | Varel                | V3          | 4 3/4                        | 153                        | 157                      | 14             | 1 1/2        |
| 3          | Varel                | Drag        | 4 3/4                        | 167                        | 586                      | 419            | 10 1/2       |
| 4          | Williams             | KIH R.R.    | 4 3/4                        | 586                        | 593                      | 7              | 2 1/2        |
| 5          | Williams             | KIH         | 4 3/4                        | 593                        | 669                      | 76             | 14           |
| 6          | Williams             | KIH         | 4 3/4                        | 669                        | 708                      | 39             | 10 1/2       |
| 7          | Williams             | KIH         | 4 3/4                        | 708                        | 752                      | 44             | 11           |
| 8          | Williams             | KIH         | 4 3/4                        | 752                        | 885                      | 133            | 19 3/4       |
| 9          | Williams             | KIH         | 4 3/4                        | 885                        | 939                      | 54             | 11 3/4       |
| 10         | Williams             | KIH         | 4 3/4                        | 939                        | 982                      | 43             | 11 3/4       |
| 10A        | J.K.Smit-<br>Connors | MMP Core    | 2 1/2                        | 946                        | 966                      | 20             | 5 1/2        |
| 11         | Williams             | KIH         | 4 3/4                        | 982                        | 1030                     | 48             | 15           |
| 12         | Williams             | KIH         | 4 3/4                        | 1030                       | 1071                     | 41             | 17           |
| 13         | Williams             | KIH         | 4 3/4                        | 1071                       | 1121                     | 50             | 15 1/4       |
| 14         | Williams             | KIH         | 4 3/4                        | 1121                       | 1175                     | 54             | 18 3/4       |
| 15         | Williams             | KIH         | 4 3/4                        | 1175                       | 1223                     | 48             | 20           |
| 16         | Williams             | KIH         | 4 3/4                        | 1223                       | 1262                     | 39             | 16 1/4       |
| 17         | Williams             | KIH         | 4 3/4                        | 1262                       | 1306                     | 44             | 16 1/2       |
| 18         | Williams             | KIH         | 4 3/4                        | 1306                       | 1357                     | 51             | 16 3/4       |
| 19         | Williams             | KIH         | 4 3/4                        | 1357                       | 1410                     | 53             | 18 1/2       |
| 20         | Williams             | KIH         | 4 3/4                        | 1410                       | 1448                     | 38             | 17 1/2       |
| 21         | Williams             | KIH         | 4 3/4                        | 1448                       | 1491                     | 43             | 18 3/4       |
| 21A        | J.K.Smit-<br>Connors | NMF Core    | 2 1/2                        | 1491                       | 1497                     | 6              | 3 1/4        |
| 22         | Williams             | KIH         | 4 3/4                        | 1497                       | 1525                     | 28             | 16 1/4       |
| 23         | Williams             | KIH         | 4 3/4                        | 1525                       | 1544                     | 19             | 11           |

MUD RECORD

Well Name: Glacier Bayseel Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

| <u>Date</u>  | <u>Depth</u>        |                   | <u>Weight</u><br>Feetlbs./U.S.<br>Gallon | <u>Viscosity</u><br>Seconds | <u>Water</u><br><u>Loss</u><br>c.c. | <u>Additives</u>                                                                           |
|--------------|---------------------|-------------------|------------------------------------------|-----------------------------|-------------------------------------|--------------------------------------------------------------------------------------------|
|              | <u>From</u><br>Feet | <u>To</u><br>Feet |                                          |                             |                                     |                                                                                            |
| August 31    | Surface             | 125               | -                                        | -                           | -                                   | Gel 1000 lbs.                                                                              |
| September 1  | 125                 | 153               | -                                        | -                           | -                                   | Gel 100 lbs.                                                                               |
| September 5  | 153                 | 607               | 9.1                                      | 30                          | -                                   | Quebracho 25 lbs.                                                                          |
| September 6  | 607                 | 707               | 9.3                                      | 35                          | 18                                  | Gel 650 lbs.                                                                               |
| September 7  | 707                 | 824               | 9.4                                      | 40                          | 15                                  | Gel 600 lbs.<br>Sawdust 2 1/2 sacks                                                        |
| September 8  | 824                 | 939               | 10.0                                     | 46                          | 8.4                                 | Quebracho 15 lbs.<br>Caustic 5 lbs.                                                        |
| September 9  | 939                 | 946               | 12.0                                     | 43                          | -                                   | Gel 700 lbs.<br>Barite 7000lbs.                                                            |
| September 10 | 946                 | 982               | 11.0                                     | 39                          | -                                   | Gel 300 lbs.<br>Barite 400 lbs.                                                            |
| September 11 | 982                 | 1045              | 11.1                                     | 49                          | -                                   | Barite 200 lbs.<br>Quebracho 20 lbs.<br>Caustic 8 lbs.                                     |
| September 12 | 1045                | 1103              | 11.0                                     | 45                          | 9.2                                 | Gel 200 lbs.<br>Barite 400 lbs.<br>Quebracho 10 lbs.<br>Caustic 10 lbs.                    |
| September 13 | 1103                | 1168              | 11.1                                     | 46                          | 9.6                                 | Barite 300 lbs.<br>Quebracho 10 lbs.<br>Caustic 10 lbs.                                    |
| September 14 | 1168                | 1211              | 11.0                                     | 44                          | 8.4                                 | Gel 1400 lbs.<br>Barite 2100 lbs.<br>Sawdust 9 sacks<br>Quebracho 5 lbs.<br>Caustic 5 lbs. |

| <u>Date</u>  | <u>Depth</u>        |                   | <u>Weight</u><br>Lbs./U.S.<br>Gallon | <u>Viscosity</u><br>Seconds | <u>Water</u><br><u>Loss</u><br>c.c. | <u>Additives</u>                                                       |
|--------------|---------------------|-------------------|--------------------------------------|-----------------------------|-------------------------------------|------------------------------------------------------------------------|
|              | <u>From</u><br>Feet | <u>To</u><br>Feet |                                      |                             |                                     |                                                                        |
| September 15 | 1211                | 1259              | 10.9                                 | 45                          | 9.5                                 | Barite 600 lbs.                                                        |
| September 16 | 1259                | 1302              | 11.1                                 | 46                          | 8.0                                 | Gel 200 lbs.<br>Barite 200 lbs.<br>Quebracho 15 lbs.<br>Caustic 5 lbs. |
| September 17 | 1302                | 1357              | 11.1                                 | 46                          | 8.4                                 | Gel 400 lbs.<br>Barite 800 lbs.                                        |
| September 18 | 1357                | 1420              | 11.1                                 | 45                          | 8.4                                 | Quebracho 15 lbs.<br>Caustic 5 lbs.                                    |
| September 19 | 1420                | 1463              | 11.2                                 | 48                          | 8.0                                 | -                                                                      |
| September 20 | 1463                | 1502              | 11.2                                 | 47                          | -                                   | Gel 400 lbs.<br>Barite 600 lbs.                                        |
| September 21 | 1502                | 1533              | 11.2                                 | 47                          | -                                   | Quebracho 15 lbs.<br>Caustic 5 lbs.                                    |
| September 22 | 1533                | 1544              | -                                    | -                           | -                                   | -                                                                      |

CASING TALLY

Well Name: Glacier Baysel Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

Surface Casing - 6 joints of 6 5/8" x 24 lb. J-55 new  
Phoenix casing.

| <u>No.</u>     | <u>Length</u><br><u>Feet</u> |
|----------------|------------------------------|
| 1              | 23.00                        |
| 2              | 24.35                        |
| 3              | 23.37                        |
| 4              | 27.93                        |
| 5              | 28.28                        |
| 6              | 22.43                        |
| Total          | 149.36                       |
| Float collar - | 1.40                         |
| Guide shoe -   | 1.25                         |
|                | 152.01                       |
| Length cut off | 6.51                         |
| Casing Used    | 145.50                       |

145.5' landed at 153' K.B. and cemented with 30 sacks.

DRILLING TIME RECORD

Well Name: Glacier Bayse! Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

Drilling time given in minutes per five feet

| <u>Depth</u><br>Feet | <u>Time In Minutes</u>                      |
|----------------------|---------------------------------------------|
| 400-450              | 5, 5, 5, 7, 8, 8, 10, 13, 15, 15.           |
| 450-500              | 11, 15, 10, 12, 9, 12, 9, 7, 8, 9.          |
| 500-550              | 8, 4, 2, 3, 2, 4, 3, 4, 3, 6.               |
| 550-600              | 5, 7, 9, 6, 14, 13, 24*, 59, 128*, 86.      |
| 600-650              | 53, 45, 53, 58, 53, 48, 43, 35, 38, 37.     |
| 650-700              | 33, 74, 76, 74*, 62, 58, 82, 46, 89, 81.    |
| 700-750              | 107, 105*, 61, 58, 66, 66, 79, 56, 93, 102. |
| 750-800              | 91*, 48, 52, 33, 27, 28, 35, 33, 29, 36.    |
| 800-850              | 42, 38, 32, 31, 36, 34, 38, 40, 40, 37.     |
| 850-900              | 44, 47, 45, 42, 46, 47, 63*, 63, 47, 39.    |
| 900-945              | 44, 50, 47, 47, 65, 86, 107, 110*, 96.      |

Coring Time in minutes per foot

| <u>Depth</u><br>Feet | <u>Time In Minutes</u>                  |
|----------------------|-----------------------------------------|
| 945-950              | -, -, 20, 25, 25.                       |
| 950-960              | 20, 25, 20, 17, 19, 17, 15, 15, 15, 15. |
| 960-966              | 14, 15, 14, 15, 15, 16.                 |

Drilling time in minutes per five feet

| <u>Depth</u><br>Feet | <u>Time In Minutes</u>                            |
|----------------------|---------------------------------------------------|
| 966-1000             | -, -, - 87, 105, 122, 97, 65, 79, 86.             |
| 1000-1050            | 89, 80, 87, 104, 135, 111*, 105, 109, 107, 112.   |
| 1050-1100            | 111, 124, 161, 124, 102*, 75, 80, 72, 80, 107.    |
| 1100-1150            | 106, 106, 108, 92, 99*, 104, 94, 90, 108, 97.     |
| 1150-1200            | 80, 105, 117, 102, 132, 117*, 154, 135, 95, 127.  |
| 1200-1250            | 125, 143, 132, 81, 113*, 115, 129, 107, 129, 123. |
| 1250-1300            | 119, 140, 135*, 97, 106, 123, 103, 104, 102, 77.  |
| 1300-1350            | 148, 118*, 114, 124, 104, 97, 95, 87, 56, 80.     |
| 1350-1400            | 110, 88*, 85, 110, 87, 91, 105, 93, 120, 137.     |

\*Bit change.

| <u>Depth</u><br><u>Feet</u> | <u>Time In Minutes</u>                              |
|-----------------------------|-----------------------------------------------------|
| 1400-1450                   | 110, 104, 127*, 114, 132, 148, 137, 112, 159, 162*. |
| 1450-1490                   | 158, 149, 105, 145, 155, 106, 156, 70.              |

Coring Time in minutes per foot

| <u>Depth</u><br><u>Feet</u> | <u>Time In Minutes</u>         |
|-----------------------------|--------------------------------|
| 1491-1498                   | -, 32, 34, 27, 22, 23, 35, 34. |

Drilling time in minutes per five feet

| <u>Depth</u><br><u>Feet</u> | <u>Time In Minutes</u>                        |
|-----------------------------|-----------------------------------------------|
| 1500-1544                   | 133, 155, 193, 158, 172, 124*, 206, 196, 124. |

---

\*Bit change.

SAMPLE DESCRIPTION

Well Name: Glacier Bayssel Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Long.

| <u>Depth</u><br>Feet | <u>Description</u> |
|----------------------|--------------------|
|----------------------|--------------------|

MIDDLE DEVONIAN

Ramparts Formation

Middle Shale Member

|         |                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0-30    | Limestone, grey and greyish brown, microcrystalline, argillaceous, with thinly interbedded shale, grey, hard, very calcareous, silty in part, rusty weathering.              |
| 30-90   | Shale, greyish green, hard, calcareous.                                                                                                                                      |
| 90-100  | Shale, as above, with minor thin interbeds of limestone, dark grey, very argillaceous.                                                                                       |
| 100-110 | Shale, dark greyish green, soft, fissile, calcareous.                                                                                                                        |
| 110-130 | Shale, dark greenish grey, hard, calcareous with minor thin interbeds of limestone, dark brownish grey, argillaceous.                                                        |
| 130-150 | Shale, dark greyish green, soft, fissile, calcareous.                                                                                                                        |
| 150-220 | Shale, dark greyish green and greenish grey, firm, calcareous.                                                                                                               |
| 220-390 | Shale, as above, with minor thin interbeds of limestone, greyish brown, microcrystalline, argillaceous.                                                                      |
| 390-490 | Shale, dark greyish green, fissile, slightly calcareous.                                                                                                                     |
| 490-510 | Shale, dark grey, fissile, non-calcareous, interbedded with shale, dark greyish green, slightly calcareous, as above                                                         |
| 510-530 | Shale, dark grey, slightly calcareous, traces of fossils and fossil resin?                                                                                                   |
| 530-550 | Shale, dark brown to black, bituminous, abundant brown fossil resin, pyritic, fossiliferous, slightly calcareous to non-calcareous (cf 510-520 in Glacier Loon River No. 1). |
| 550-570 | Shale, dark grey and dark brownish grey, non-calcareous.                                                                                                                     |

| <u>Depth<br/>Feet</u>  | <u>Description</u>                                                                                                                                                               |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 570-580                | Shale, dark brown to black, hard, bituminous, fossiliferous, limy, pyritic, slickensided.                                                                                        |
| Lower Limestone Member |                                                                                                                                                                                  |
| 580-590                | Limestone, buff to dark brown, cryptocrystalline to crystalline, minor pyrite, and traces of bluish grey chert; minor interbedded shale, light greyish green, calcareous.        |
| 590-600                | Limestone, buff to dark brown, cryptocrystalline to finely crystalline.                                                                                                          |
| 600-620                | Limestone, buff, dark brown and grey, cryptocrystalline to crystalline, fossiliferous.                                                                                           |
| 620-630                | Limestone, buff and grey, dense to microcrystalline, fossiliferous.                                                                                                              |
| 630-650                | Limestone, light greenish grey to grey, dense to cryptocrystalline, fossiliferous.                                                                                               |
| 650-710                | Limestone, brown to dark brown, dense to cryptocrystalline, fossiliferous; traces of porosity and scattered oil staining at 685', porosity after corals, small reef development. |
| 710-720                | Limestone, greyish brown to brown, dense to cryptocrystalline, fossiliferous.                                                                                                    |
| 720-730                | Limestone, brown, dense, sparsely fossiliferous.                                                                                                                                 |
| 730-740                | Limestone, light grey, buff and brown, dense to cryptocrystalline.                                                                                                               |
| 740-750                | Limestone, brown, dense, fossiliferous.                                                                                                                                          |
| 750-770                | Limestone, grey, greyish brown and brown, dense to crystalline, fossiliferous.                                                                                                   |
| 770-790                | Shale, green, calcareous, sparsely fossiliferous, with interbedded limestone, grey to greenish grey, fossiliferous fragmental.                                                   |
| 790-830                | Shale, as above, with minor interbedded limestone, greyish green, fossiliferous fragmental, in thin bands.                                                                       |
| 830-840                | Interbedded shale and limestone, as above; shale, dark brown, bituminous, non-calcareous, abundant in samples but may be cavings from lower part of Middle Shale Member.         |



| <u>Depth</u><br><u>Feet</u> | <u>Description</u>                                                                                                                                                                                                                                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 840-880                     | Interbedded shale, as above, and minor limestone, grey and greenish grey, dense to crystalline and fossiliferous fragmental, pyritic, argillaceous.                                                                                                             |
| 880-900                     | Limestone, grey, greyish brown and minor brown, dense to crystalline and fossiliferous fragmental, pyritic in part with minor interbedded shale, as above.                                                                                                      |
| 900-925                     | Limestone, grey, greyish brown and greenish grey, mottled, microcrystalline, granular and fossiliferous fragmental, argillaceous, pyritic, with minor interbedded shale, green and dark brownish grey, calcareous.                                              |
| 925-935                     | Limestone, brown, hard, dense.                                                                                                                                                                                                                                  |
| 935-940                     | Shale, dark brownish grey, bituminous, dark grey and dark green, non-calcareous, with interbedded limestone, dark brown, dense to microcrystalline.                                                                                                             |
| 940-946                     | Limestone, buff to brown, mottled in part, dense to crystalline, poor scattered porosity, fossiliferous, irregular partings of dark brown, bituminous shale.                                                                                                    |
| 946-966                     | Cored - see core description.                                                                                                                                                                                                                                   |
| 966-980                     | Limestone, buff to brown, in part mottled, dense to microgranular and microcrystalline, traces of poor porosity, fossiliferous, stylolitic partings and irregular partings of brown bituminous shale.                                                           |
| 980-1040                    | Shale, dark brownish grey, bituminous, and dark green non-calcareous, fissile;<br>Limestone, dark brown to buff, mottled in part, dense to microcrystalline, fossiliferous, argillaceous and bituminous in part; traces of poor porosity and dead oil staining. |

LOWER DEVONIAN

Bear Rock Formation

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| 1040-1045 | Limestone, buff to light brown, dense, hard.                                                        |
| 1045-1055 | Limestone, brown, dense to lithographic, bituminous material coating prominent stylolitic partings. |
| 1055-1060 | Limestone, buff to light brown, dense to lithographic, traces of ostracods.                         |
| 1060-1075 | Limestone, brown, dense to lithographic.                                                            |

| <u>Depth</u><br><u>Feet</u> | <u>Description</u>                                                                                                                                                                                   |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1075-1080                   | Limestone, dark brown, dense, abundant bituminous inclusions and stylolitic partings of bituminous material.                                                                                         |
| 1080-1085                   | Limestone, buff, dense.                                                                                                                                                                              |
| 1085-1090                   | Limestone, buff and dark brown, dense, bituminous, stylolitic partings.                                                                                                                              |
| 1090-1110                   | Limestone, dark brown to light brown, microgranular and microcrystalline to dense, traces of fine porosity, traces of oil staining, petroleum odour when samples caught.                             |
| 1110-1115                   | Limestone, buff to light brown, dense to microcrystalline, traces of scattered porosity, dark bituminous stylolitic partings.                                                                        |
| 1115-1120                   | Limestone, brown, microcrystalline, good scattered porosity.                                                                                                                                         |
| 1120-1155                   | Limestone, brown, dense, stylolitic partings.                                                                                                                                                        |
| 1155-1180                   | Limestone, dark brown, bituminous, argillaceous, microcrystalline, bituminous partings.                                                                                                              |
| 1180-1190                   | Dolomite, brown to dark brown, microcrystalline, bituminous, trace of oil-staining.                                                                                                                  |
| 1190-1205                   | Limestone, dark brown, dense to microcrystalline, bituminous, stylolitic partings; minor dolomite, as above.                                                                                         |
| 1205-1220                   | Limestone, dark brown to light brown, dense to microcrystalline, bituminous in part, stylolitic partings.                                                                                            |
| 1220-1230                   | Limestone, buff to dark brown, dense to crystalline, stylolitic partings, pyritic, bituminous specks.                                                                                                |
| 1230-1235                   | Limestone, buff, dense, hard, clean.                                                                                                                                                                 |
| 1235-1250                   | Limestone, buff to dark brown, dense, irregular bituminous partings.                                                                                                                                 |
| 1250-1275                   | Limestone, light brown to light buff, dense, clean.                                                                                                                                                  |
| 1275-1280                   | Limestone, buff to light brown and greyish brown, dense.                                                                                                                                             |
| 1280-1295                   | Limestone, light brown to brown, dense to cryptocrystalline, bituminous in part, traces of pin-point porosity; stylolitic partings;<br>Limestone, greyish brown, dense, argillaceous, fossiliferous. |

| <u>Depth<br/>Feet</u> | <u>Description</u>                                                                                                                                                                                                                                     |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1295-1305             | Limestone, buff to brown, microcrystalline to dense, poor to fair scattered porosity.                                                                                                                                                                  |
| 1305-1315             | Limestone, buff, greyish brown and brown, dense to cryptocrystalline.                                                                                                                                                                                  |
| 1315-1330             | Limestone, buff to brown, dense; few fragments of limestone, buff to light brown, microcrystalline and microgranular to fragmental with scattered porosity; probably a breccia.                                                                        |
| 1330-1335             | Breccia consisting of limestone, buff to brown, dense, traces of fossils, and limestone, buff to brown, microgranular to fragmental, scattered porosity.                                                                                               |
| 1335-1350             | Limestone, buff to brown, microgranular to fragmental, poor to good porosity, no evidence of oil staining. Drilling time indicates porosity from 1,338 to 1,344 feet.                                                                                  |
| 1350-1355             | Breccia consisting of limestone, dark brown, dense and limestone, buff to dark brown, mottled, fragmental, scattered porosity.                                                                                                                         |
| 1355-1370             | Breccia consisting of limestone, dark to light brown, dense, tight and limestone, brown, fragmental, scattered porosity.                                                                                                                               |
| 1370-1390             | Breccia consisting of limestone, brown to buff, mottled in part, fragmental, scattered porosity, poor to fair, traces of fossils and minor limestone, brown, dense, hard.                                                                              |
| 1390-1405             | Breccia consisting of limestone, greyish brown to brown, sparsely fossiliferous, dense to fragmental, poor scattered porosity, and limestone, brown, dense to cryptocrystalline.                                                                       |
| 1405-1440             | Breccia consisting of limestone, brown, buff and greyish green to grey, dense to microcrystalline, traces of fossils; minor limestone, brown to dark brown, mottled, granular to fragmental.                                                           |
| 1440-1455             | Breccia consisting of dolomite, buff to dark brown, mottled in part, microcrystalline to finely crystalline, traces of vugs with small white dolomite crystals, poor intercrystalline porosity, and minor limestone, buff, dense to cryptocrystalline. |
| 1455-1460             | Breccia consisting of dolomite, buff to dark brown, mottled, bituminous, finely crystalline, and dolomite, buff to light brown and minor greenish grey, dense to cryptocrystalline; traces of vuggy porosity and poor intercrystalline porosity.       |

| <u>Depth</u><br><u>Feet</u> | <u>Description</u>                                                                                                                                                                              |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1460-1465                   | As above, fair to good porosity in the lighter coloured dolomite. 1459 to 1462 feet, fast drilling time.                                                                                        |
| 1465-1485                   | As above, poor intercrystalline porosity.                                                                                                                                                       |
| 1485-1491                   | Dolomite, buff to dark brown, mottled in part, crystalline, fair to good intercrystalline and vuggy porosity. Fast drilling from 1485 to 1491 feet.                                             |
| 1491-1497                   | Cored - negligible recovery of few pieces of dolomite, dark brown, microcrystalline, hard, resinous lustre, tight, and dolomite, buff to light brown, dense.                                    |
| 1490-1495                   | (Sample from reaming rat hole)<br>Dolomite, buff to dark brown, mottled, crystalline, scattered porosity, and dolomite, greyish brown to light brown, dense, brecciated relationship, as above. |
| 1495-1500                   | Dolomite breccia, as above, traces of porosity.                                                                                                                                                 |
| 1500-1515                   | Dolomite, light brown to dark brown, mottled in part, microcrystalline to finely crystalline, resinous lustre, some fragments exhibit good intercrystalline porosity.                           |
| 1515-1544                   | Dolomite, buff to dark brown, mottled in part, crystalline, poor to fair porosity, resinous lustre.                                                                                             |
| 1544                        | Total Depth.                                                                                                                                                                                    |

CORE DESCRIPTION

Well Name: Glacier Bayel Climax Ramparts No. 1

Location: 66° 14' 44" N. Lat.  
128° 39' 47" W. Lat.

Core No. 1: 946'-956'. Recovery 10'.

946'-956' Limestone, buff to brown, dense to microcrystalline, traces of poor porosity and scattered oil bleeding, irregular partings of dark brown bituminous shale.

Core No. 2: 956'-966'. Recovery 10'.

956'-966' Limestone, buff to brown, in part mottled, dense to microgranular and microcrystalline, traces of poor porosity and scattered oil bleeding, stylolitic partings and irregular partings of brown bituminous shale.

Core No. 3: 1,491'-1,497'. Recovery 0.1'.

Dolomite, dark brown, microcrystalline, resinous lustre, tight;  
Dolomite, buff to light brown, dense.

## CHEMICAL &amp; GEOLOGICAL LABORATORIES LTD.

Edmonton

Fort St. John

Calgary

## WATER ANALYSIS REPORT

Field Fort Good Hope Area, Northwest Territories Well No. Glacier Bayzel Climax Ramparts #1

Operator J.C. Spreule &amp; Associates Date Received October 20, 1960

Formation \_\_\_\_\_ Depths 1439' - 1544'

Other pertinent data Location: 66° 14' 46" N. Latitude  
128° 39' 47" W. Longitude

Water obtained from D.S.T. No. 2

Date October 25, 1960 Lab. No. C 3340

## PARTS PER MILLION (MILLIGRAMS PER LITER)

| Na + K | Ca  | Mg  | Fe | SO <sub>4</sub> | Cl    | CO <sub>3</sub> | HCO <sub>3</sub> | OH | H <sub>2</sub> S |
|--------|-----|-----|----|-----------------|-------|-----------------|------------------|----|------------------|
| 2,494  | 655 | 383 |    | 1,997           | 4,300 |                 | 600              |    | Present          |

## MILLIGRAM EQUIVALENTS

|        |       |       |  |       |        |  |      |  |  |
|--------|-------|-------|--|-------|--------|--|------|--|--|
| 108.48 | 32.68 | 31.48 |  | 41.54 | 121.26 |  | 9.84 |  |  |
|--------|-------|-------|--|-------|--------|--|------|--|--|

## MILLIGRAM EQUIVALENTS IN PERCENT

|       |      |      |  |       |       |  |      |  |  |
|-------|------|------|--|-------|-------|--|------|--|--|
| 31.42 | 9.46 | 9.12 |  | 12.03 | 35.12 |  | 2.85 |  |  |
|-------|------|------|--|-------|-------|--|------|--|--|

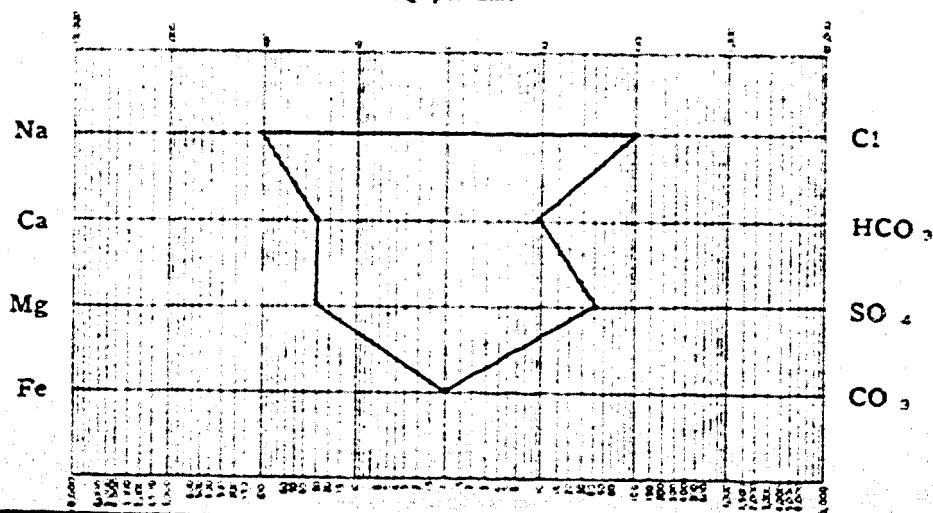
## Total Solids in Parts per Million

|                  |                           |
|------------------|---------------------------|
| By evaporation   | 11,190                    |
| After Ignition   | 9,710                     |
| Calculated       | 10,124                    |
| Specific Gravity | 1.011                     |
| Observed pH      | 7.4                       |
| Resistivity      | 0.774 ohm meters @ 68° F. |

## Properties of Reaction in Percent

|                      |       |
|----------------------|-------|
| Primary salinity     | 62.84 |
| Secondary salinity   | 31.46 |
| Primary alkalinity   | —     |
| Secondary alkalinity | 5.70  |
| Chloride salinity    | 74.49 |
| Sulfate salinity     | 25.51 |

## Remarks and conclusions

LOGARITHMIC PATTERN  
MEQ per unit

ENGINEERING AND GEOLOGICAL SUMMARY

Well Name: Glacier Baysel Climax Ramparts No. 1

Location: 66° 11' 44" N. Lat.  
128° 39' 47" W. Long.

Glacier Baysel Climax Ramparts No. 1 was the second well drilled in the structure test program undertaken on Permits held in the name of Glacier Explorers Limited in the Fort Good Hope area, Northwest Territories. The well site is on the east bank of the Mackenzie River about one mile above the settlement of Fort Good Hope and about fifteen feet above the river level.

The Middle Shale member (Hare Indian formation) of the Middle Devonian Ramparts formation outcrops at the location and the well commences in strata estimated to be at least 170 feet below the top of the member. The top of the Lower Limestone member of the Ramparts formation was encountered at 585 feet. A thickness in excess of 750 feet is thus indicated for the Middle Shale member.

The Lower Limestone member is similar in lithology to what was obtained in the Loon River test. The contact with the Lower Devonian Bear Rock formation has been placed at 1,040 feet giving an indicated thickness for the member of 455 feet.

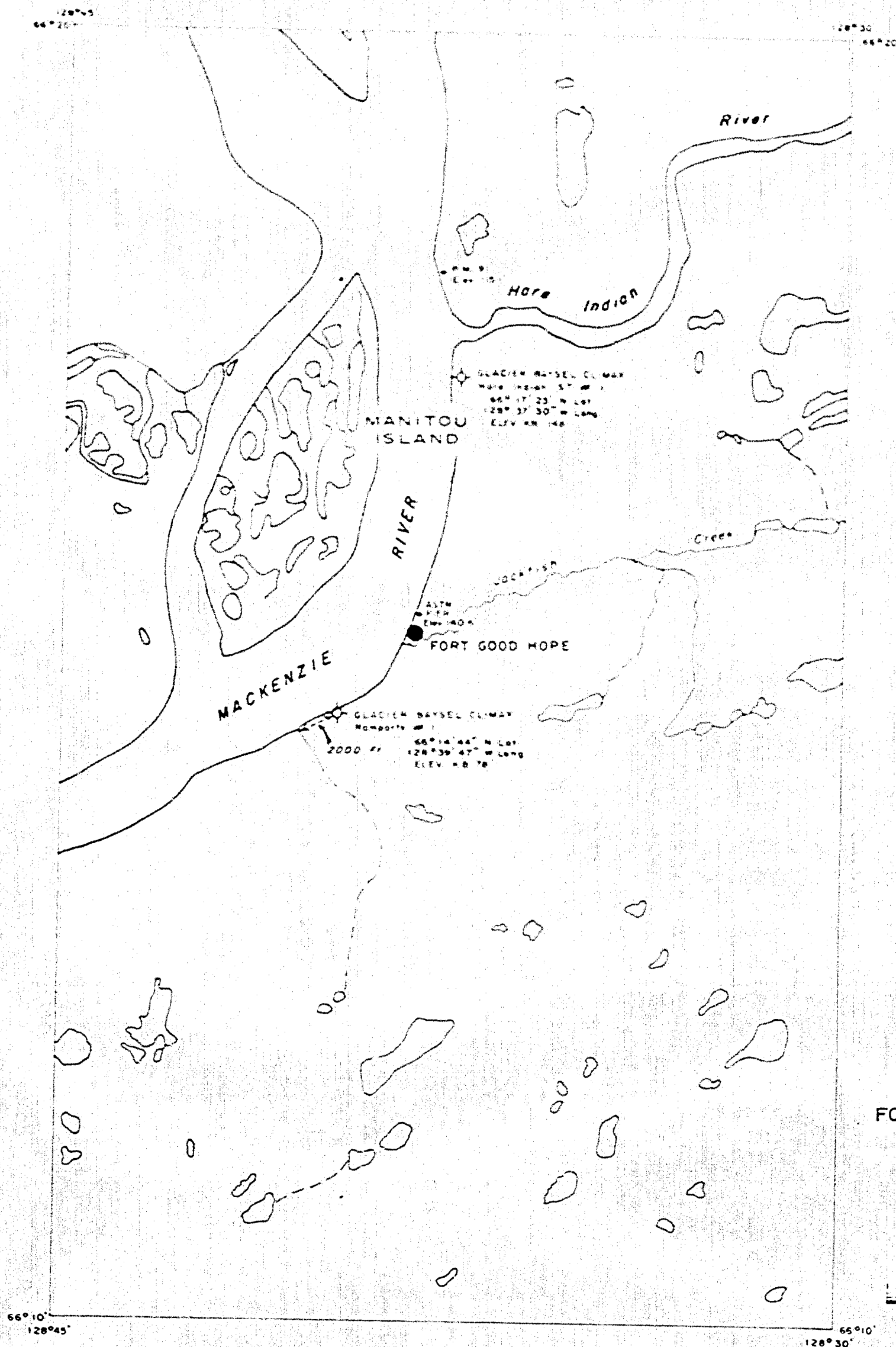
The upper part of the Bear Rock formation from 1,040 to 1,315 feet is composed of buff to dark brown limestones with a few poorly developed thin porous zones. Brecciated limestone occurs from 1,315 to 1,440 feet and is underlain by dolomite breccia and dolomite from 1,440 to a total depth of 1,544 feet.

Natural gas was encountered at 946 feet which necessitated the addition of weighting material to the drilling mud. A drill stem test of the interval 936 to 946 feet yielded a small flow estimated at the rate of 250 Mcf. per day. The interval from 946 to 966 feet was cored but showed only scattered oil bleeding in generally tight limestone. A drill stem test of the interval 1,439 to 1,544 feet yielded salty sulphurous water flowing at the rate of 35 barrels per hour from porous dolomite of the Bear Rock formation. The test indicates the presence of extensive porosity in this formation which could form a substantial oil reservoir under suitable stratigraphic and/or structural conditions.

After logging the hole to total depth, three cement plugs were set and the hole abandoned in accordance with Government regulations.

1009 Fourth Ave. S.W.,  
Calgary, Alberta.  
October 19, 1960.

Norman Soul  
Norman Soul, P. Geol.



P.B.N.G. PERMIT 1534  
FORT GOOD HOPE AREA, N.W.T.

SHOWING LOCATION OF

GLACIER BAYSEEL CLIMAX

Ramparts #1

and

HARE INDIAN ST. #1



SCALE 1" = 1 MILE

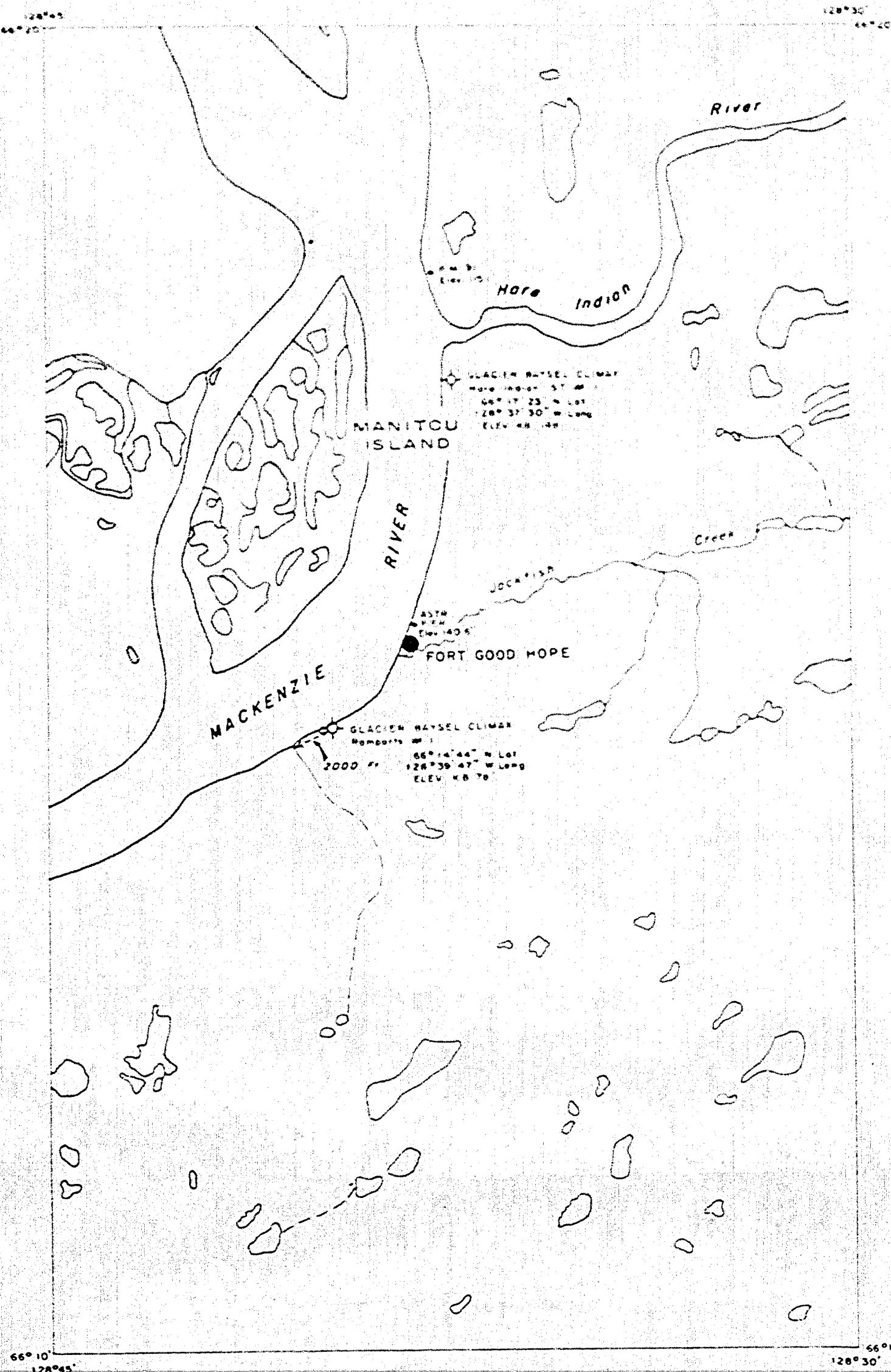
I certify that this plan is correct

*Norman Soul*

Calgary, Nov. 16, 1960. N. Soul, P. Geol.

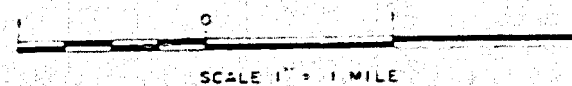
J.C. SPROULE and ASSOCIATES LTD. CALGARY





P.B.N.G. PERMIT 1534  
FORT GOOD HOPE AREA, N.W.T.

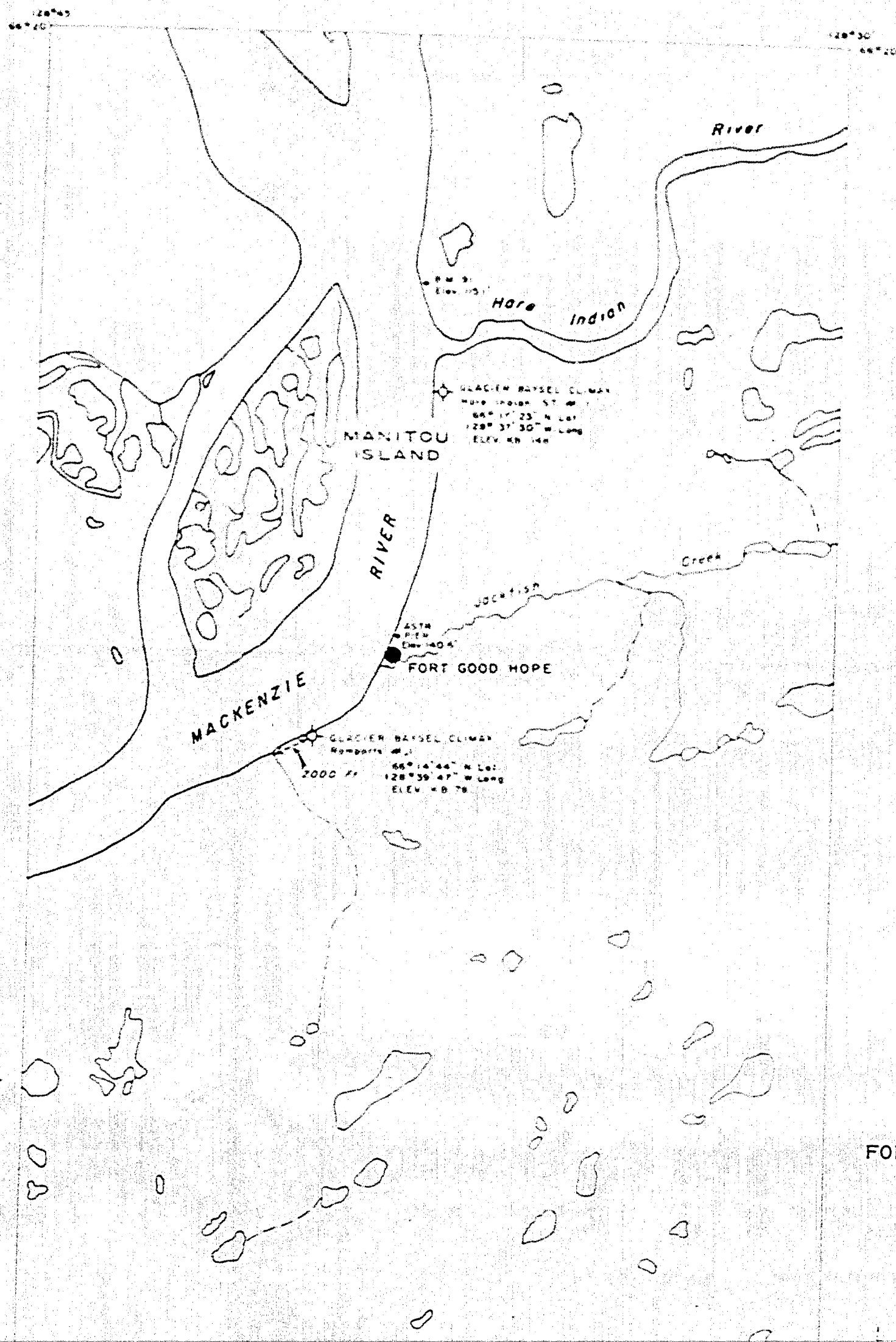
SHOWING LOCATION OF  
GLACIER BAYSEL CLIMAX  
Ramparts #1  
and  
HARE INDIAN ST #1



I certify that this plan is correct

*Norval Soul*  
Calgary, Nov 16, 1960. N Soul, P Geol

J.C. SPROULE and ASSOCIATES LTD. CALGARY



P.B.N.G. PERMIT 1534  
 FORT GOOD HOPE AREA, N.W.T.  
 SHOWING LOCATION OF  
GLACIER BAYSEEL CLIMAX  
Ramparts #1  
 and  
HARE INDIAN ST #1

SCALE 1" = 1 MILE

# DAILY REPORT

DATE SEPT 23, 1960

**BOARD COPY**  
(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAY SECL CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.   |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |     |                     |                                |       |             |                            |              | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|----------------------------|-------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|-----|---------------------|--------------------------------|-------|-------------|----------------------------|--------------|-----------------------------------|-----------------------------------------|---------------------|----------------------|------------------------|-------------|-------------|------------|----------|--|-------------|--|----------|--------------|---------|------------------|---------------------------------|----------------------|-----------|------------|---------|--|------------|------|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|
|                            | Start of Tour                       |                 | Hole Made This Tour |                  |              | End of Tour          |             |          | Start of Tour                     |     | Hole Made This Tour |                                |       | End of Tour |                            |              | Start of Tour                     |                                         | Hole Made This Tour |                      |                        | End of Tour |             |            |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| DEPTH                      |                                     |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| TIME                       | On Bottom                           |                 | Off Bottom          |                  |              | On Bottom            |             |          | Off Bottom                        |     |                     | On Bottom                      |       | Off Bottom  |                            |              | On Bottom                         |                                         | Off Bottom          |                      |                        | On Bottom   |             | Off Bottom |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                                | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No. | Type                | Condition                      | Wt.   | R.P.M.      | Ft. Drilled                | Bit-hrs.     | Size                              | No.                                     | Type                | Condition            | Wt.                    | R.P.M.      | Ft. Drilled | Bit-hrs.   |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                                | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          |                                   |     |                     |                                |       |             | Size                       | Stands       | Singles                           | Drill Collar                            | Kelly               | Core Bbl.            |                        |             |             |            |          |  |             |  | Size     | Stands       | Singles | Drill Collar     | Kelly                           | Core Bbl.            |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                                | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          |                                   |     |                     |                                |       |             |                            | Time         | Weight                            | Vis.                                    | Gel Str.            | pH                   | Am't Added             | Kind        |             |            |          |  |             |  |          |              | Time    | Weight           | Vis.                            | Gel Str.             | pH        | Am't Added | Kind    |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| CORING                     | Time                                | Interval        |                     |                  | Ft. Cut      |                      | Ft. Rec'd   | Type     |                                   |     |                     |                                |       |             |                            |              | Time                              | Interval                                |                     |                      | Ft. Cut                |             | Ft. Rec'd   | Type       |          |  |             |  |          |              |         |                  | Time                            | Interval             |           |            | Ft. Cut |  | Ft. Rec'd  | Type |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| SURVEY                     | Depth                               |                 | Degrees Off         |                  | Depth        |                      | Degrees Off |          | Depth                             |     | Degrees Off         |                                | Depth |             | Degrees Off                |              | Depth                             |                                         | Degrees Off         |                      | Depth                  |             | Degrees Off |            | Depth    |  | Degrees Off |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                                | Amount          |                     |                  | Set at K.B.  |                      |             | Wt./Ft.  | New/Used                          |     | Grade               | Cubic Feet of Mix (Dry Volume) |       |             | Type of Cementing Material |              |                                   | ADDITIVES Including Ratio or Percentage |                     |                      | Slurry Weight Lb./Gal. |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| PERFORATING                | Interval                            | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          |                                   |     |                     |                                |       |             | Interval                   | Shot/Ft.     | Type                              | Interval                                | Shot/Ft.            | Type                 |                        |             |             |            |          |  |             |  | Interval | Shot/Ft.     | Type    | Interval         | Shot/Ft.                        | Type                 |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| ACIDIZING or FLUORING      | Interval                            | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |                                   |     |                     |                                |       |             | Interval                   | Amount Gals. | Kind                              | Breakdown Press.                        | Final Press.        | Feed Rate Bbls./Min. |                        |             |             |            |          |  |             |  | Interval | Amount Gals. | Kind    | Breakdown Press. | Final Press.                    | Feed Rate Bbls./Min. |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                                 | Interval Tested |                     |                  | to           |                      |             |          |                                   |     |                     |                                |       |             |                            | No.          | Interval Tested                   |                                         |                     | to                   |                        |             |             |            |          |  |             |  |          |              | No.     | Interval Tested  |                                 |                      | to        |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | Valve Open                          |                 | min.                |                  | Shut in      |                      | mins.       |          |                                   |     |                     |                                |       |             |                            |              | Valve Open                        |                                         | min.                |                      | Shut in                |             | mins.       |            |          |  |             |  |          |              |         |                  | Valve Open                      |                      | min.      |            | Shut in |  | mins.      |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | Gas to Surface                      |                 | min.                |                  | @            |                      | Mcf/d Max.  |          |                                   |     |                     |                                |       |             |                            |              | Gas to Surface                    |                                         | min.                |                      | @                      |             | Mcf/d Max.  |            |          |  |             |  |          |              |         |                  | Gas to Surface                  |                      | min.      |            | @       |  | Mcf/d Max. |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | Oil to Surface                      |                 | min.                |                  | @            |                      | Bbl/d Max.  |          |                                   |     |                     |                                |       |             |                            |              | Oil to Surface                    |                                         | min.                |                      | @                      |             | Bbl/d Max.  |            |          |  |             |  |          |              |         |                  | Oil to Surface                  |                      | min.      |            | @       |  | Bbl/d Max. |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | Recovery:                           |                 | ft.                 |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              | Recovery:                         |                                         | ft.                 |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | Recovery:                       |                      | ft.       |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            |                                     |                 | ft.                 |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         | ft.                 |                      |                        |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      | ft.       |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            |                                     |                 | ft.                 |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         | ft.                 |                      |                        |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      | ft.       |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                                 | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          |                                   |     |                     |                                |       |             |                            | No.          | Interval                          | Cement                                  | Additive            | Plug Down            | Felt At                | Time        |             |            |          |  |             |  |          |              | No.     | Interval         | Cement                          | Additive             | Plug Down | Felt At    | Time    |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| LOGS                       | Type                                |                 | Int.                |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              | Type                              |                                         | Int.                |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | Type                            |                      | Int.      |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
| REMARKS                    | 12.00 - 6:45 W.O.C.                 |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              | 8.00 - 4.00 - W.O.C.              |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | 4.00 - 5.00 - W.O.C.            |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | 6:45 - 7:15 RUN IN TO FEEL FOR PLUG |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | 5.00 - 5:30 - felt plug at 111' |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | 7:15 - 7:45 PREPARING TO RE-CEMENT  |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | 5:30 - 10.00                    |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | 7:45 - 8.00 Run 16 inch plug        |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  | Re-cement & clean up on large.  |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            |                                     |                 |                     |                  |              |                      |             |          |                                   |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            |          |  |             |  |          |              |         |                  |                                 |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |
|                            | Operator                            |                 |                     |                  |              |                      |             |          | Driller PETERS                    |     |                     |                                |       |             |                            |              |                                   |                                         |                     |                      |                        |             |             |            | Operator |  |             |  |          |              |         |                  | Driller Hinkle                  |                      |           |            |         |  |            |      |  |  |  |  |  |  |  |  | Operator |  |  |  |  |  |  |  | Driller |  |  |  |  |  |  |  |

COMPANY J.C. SPADOLE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 22, 1960

BOARD COPY

(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR INDIAN DRILLING RIG No. 5 Licensed Well Name & Location GLACIER BASIN CLIMAX R. H. W. 41 K. B. Elev. 

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |                       | SECOND TOUR 8:00 a.m. — 4:00 p.m. |       |                     |                                |           |                            |                |                                         | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|-----------------------|-----------------------------------|-------|---------------------|--------------------------------|-----------|----------------------------|----------------|-----------------------------------------|-----------------------------------|------------------------|----------------------|-------------|-----------|-----------------------|-------------|----------|-----|-----------------|----------|--------------|------------------------|------------------|--------------|-----------------------------|-----------|-------------|------|-----------------------|--|------|--|--|--|--|--|--|--|
|                            | Start of Tour                     |                 | Hole Made This Tour |                  |              |                      | End of Tour |                       | Start of Tour                     |       | Hole Made This Tour |                                |           |                            | End of Tour    |                                         | Start of Tour                     |                        | Hole Made This Tour  |             |           |                       | End of Tour |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| DEPTH                      | 1533                              |                 | 10 8 11             |                  |              |                      | 1544        |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                       | On Bottom                         |       | Off Bottom          |                                | On Bottom |                            | Off Bottom     |                                         | On Bottom                         |                        | Off Bottom           |             | On Bottom |                       | Off Bottom  |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.              | Size                              | No.   | Type                | Condition                      | Wt.       | R.P.M.                     | Ft. Drilled    | Bit-hrs.                                | Size                              | No.                    | Type                 | Condition   | Wt.       | R.P.M.                | Ft. Drilled | Bit-hrs. |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            | 4 3/4                             | 22              | K1                  |                  |              |                      | 19          | 11                    |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                       |                                   |       |                     |                                |           | Size                       | Stands         | Singles                                 | Drill Collar                      | Kelly                  | Core Bbl.            |             |           |                       |             |          |     |                 | Size     | Stands       | Singles                | Drill Collar     | Kelly        | Core Bbl.                   |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   | 75              |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                       |                                   |       |                     |                                |           |                            | Time           | Weight                                  | Vis.                              | Gel Str.               | pH                   | Am't Added  | Kind      |                       |             |          |     |                 |          |              | Time                   | Weight           | Vis.         | Gel Str.                    | pH        | Am't Added  | Kind |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| CORING                     | Time                              | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type                  |                                   |       |                     |                                |           |                            |                | Time                                    | Interval                          |                        | Ft. Cut              |             | Ft. Rec'd |                       | Type        |          |     |                 |          |              |                        |                  | Time         | Interval                    |           | Ft. Cut     |      | Ft. Rec'd             |  | Type |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| SURVEY                     | Depth                             | Degrees Off     |                     | Depth            |              | Degrees Off          |             |                       |                                   |       |                     |                                |           |                            | Depth          | Degrees Off                             |                                   | Depth                  |                      | Degrees Off |           |                       |             |          |     |                 |          |              | Depth                  | Degrees Off      |              | Depth                       |           | Degrees Off |      |                       |  |      |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |             | New/Used              |                                   | Grade |                     | Cubic Feet of Mix (Dry Volume) |           | Type of Cementing Material |                | ADDITIVES Including Ratio or Percentage |                                   | Slurry Weight Lb./Gal. |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                       |                                   |       |                     |                                |           | Interval                   | Shot/Ft.       | Type                                    | Interval                          | Shot/Ft.               | Type                 |             |           |                       |             |          |     |                 | Interval | Shot/Ft.     | Type                   | Interval         | Shot/Ft.     | Type                        |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                       |                                   |       |                     |                                |           | Interval                   | Amount Gals.   | Kind                                    | Breakdown Press.                  | Final Press.           | Feed Rate Bbls./Min. |             |           |                       |             |          |     |                 | Interval | Amount Gals. | Kind                   | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.        |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                               | Interval Tested |                     | to               |              |                      |             |                       |                                   |       |                     |                                | No.       | Interval Tested            |                | to                                      |                                   |                        |                      |             |           |                       |             |          | No. | Interval Tested |          | to           |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            | Valve Open                        | min.            |                     | Shut in          |              | mins.                |             |                       |                                   |       |                     |                                |           |                            | Valve Open     | min.                                    |                                   | Shut in                |                      | mins.       |           |                       |             |          |     |                 |          |              | Valve Open             | min.             |              | Shut in                     |           | mins.       |      |                       |  |      |  |  |  |  |  |  |  |
|                            | Gas to Surface                    | min.            |                     | @                |              | Mcf/d Max.           |             |                       |                                   |       |                     |                                |           |                            | Gas to Surface | min.                                    |                                   | @                      |                      | Mcf/d Max.  |           |                       |             |          |     |                 |          |              | Gas to Surface         | min.             |              | @                           |           | Mcf/d Max.  |      |                       |  |      |  |  |  |  |  |  |  |
|                            | Oil to Surface                    | min.            |                     | @                |              | Bbl/d Max.           |             |                       |                                   |       |                     |                                |           |                            | Oil to Surface | min.                                    |                                   | @                      |                      | Bbl/d Max.  |           |                       |             |          |     |                 |          |              | Oil to Surface         | min.             |              | @                           |           | Bbl/d Max.  |      |                       |  |      |  |  |  |  |  |  |  |
|                            | Recovery:                         | ft.             |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            | Recovery:      | ft.                                     |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              | Recovery:              | ft.              |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | ft.                                     |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        | ft.              |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | ft.                                     |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        | ft.              |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                       |                                   |       |                     |                                |           |                            | No.            | Interval                                | Cement                            | Additive               | Plug Down            | Felt At     | Time      |                       |             |          |     |                 |          |              | No.                    | Interval         | Cement       | Additive                    | Plug Down | Felt At     | Time |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         |                                   |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  |              |                             |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | Type                                    | Int.                              |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | Type         | Int.                        |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            | 12:00 - 6:45                      | DRILLING        |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 8:00 - 8:30                             | GREASE                            |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 4:00 - 5:25  | RAN FIRST ABANDONMENT PLUG  |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            | 6:45 - 8:00                       | PULL OUT        |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 8:30 - 11:30                            | RUN IN WITH PACKER                |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 5:25 - 5:50  | PULLED OUT 20 SINGLES       |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 11:30 - 11:55                           | GETTING READY FOR TEST            |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 5:50 - 6:50  | RAN SECOND ABANDONMENT PLUG |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 11:55 - 12:55                           | TESTING                           |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 6:50 - 8:15  | PULLED OUT 45 SINGLES       |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 12:55 - 3:00                            | PULL OUT                          |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 8:15 - 8:45  | Ran 3rd plug                |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                | 3:00 - 4:00                             | RUN IN WITH OPEN STEM             |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 8:45 - 9:00  | min out                     |           |             |      |                       |  |      |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |                       |                                   |       |                     |                                |           |                            |                |                                         | FOR CEMENTING                     |                        |                      |             |           |                       |             |          |     |                 |          |              |                        |                  | 9:00 - 12:00 | W.D.C.                      |           |             |      |                       |  |      |  |  |  |  |  |  |  |
| REMARKS                    | Operator                          |                 |                     |                  |              |                      |             | Driller <u>PETERS</u> |                                   |       |                     |                                |           |                            | Operator       |                                         |                                   |                        |                      |             |           | Driller <u>HUMBRE</u> |             |          |     |                 |          |              | Operator <u>HUMBRE</u> |                  |              |                             |           |             |      | Driller <u>PETERS</u> |  |      |  |  |  |  |  |  |  |



# DAILY REPORT

DATE SEPT. 21, 1960

**BOARD COPY**

(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR DIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAYSEL CLIMAX RHPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR             |                 |                     |                  |              |                      |             |          | SECOND TOUR                           |                 |                     |                  |              |                      |             |          | THIRD TOUR                  |                 |                     |                  |              |                      |             |          |
|----------------------------|------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|---------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|
|                            | 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |          | 8:00 a.m. — 4:00 p.m.                 |                 |                     |                  |              |                      |             |          | 4:00 p.m. — 12:00 p.m.      |                 |                     |                  |              |                      |             |          |
|                            | Start of Tour          |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                         |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour               |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          |
| DEPTH                      | 1502                   |                 | 14                  |                  | 1514         |                      |             |          | 1516                                  |                 | 9                   |                  | 1525         |                      |             |          | 1525                        |                 | 8                   |                  | 1533         |                      |             |          |
| TIME                       | On Bottom              |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                             |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                   |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          |
| BIT RECORD                 | Size                   | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                                  | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                        | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. |
|                            | 4 3/4                  | 21              | K1                  |                  |              |                      | 22          | 12       | 4 3/4                                 | 21              | K1                  |                  |              |                      |             | 31       | 17                          | 4 3/4           | 22                  | K1               | NEW          |                      |             | 8        |
| DRILL PIPE                 | Size                   | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                                  | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                        | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          | 2 3/4                                 | 75              | 75                  | 1                | 1            |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| MUD RECORD                 | Time                   | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                                  | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                        | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          |
|                            | 2.00                   | 11.2            | 49                  |                  |              | 15.2X                | 55          | constant | 10.00                                 | 11.2            | 55                  |                  |              |                      |             |          | 8.00                        | 11.3            | 58                  |                  |              | WATER                |             |          |
| CORING                     | Time                   | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          | Time                                  | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          | Time                        | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| SURVEY                     | Depth                  | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          | Depth                                 | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          | Depth                       | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| CASING & CEMENTING DETAILS | Size                   | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |          | Size                                  | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |          | Size                        | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| PERFORATING                | Interval               | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                              | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                    | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| ACIDIZING or FRACING       | Interval               | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                              | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                    | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| FORMATION TESTS            | No.                    | Interval Tested | to                  |                  |              |                      |             |          | No.                                   | Interval Tested | to                  |                  |              |                      |             |          | No.                         | Interval Tested | to                  |                  |              |                      |             |          |
|                            | Valve Open             | min.            | Shut in             | mins.            |              |                      |             |          | Valve Open                            | min.            | Shut in             | mins.            |              |                      |             |          | Valve Open                  | min.            | Shut in             | mins.            |              |                      |             |          |
|                            | Gas to Surface         | min.            | @                   |                  | Mcf/d Max.   |                      |             |          | Gas to Surface                        | min.            | @                   |                  | Mcf/d Max.   |                      |             |          | Gas to Surface              | min.            | @                   |                  | Mcf/d Max.   |                      |             |          |
|                            | Oil to Surface         | min.            | @                   |                  | Bbl/d Max.   |                      |             |          | Oil to Surface                        | min.            | @                   |                  | Bbl/d Max.   |                      |             |          | Oil to Surface              | min.            | @                   |                  | Bbl/d Max.   |                      |             |          |
|                            | Recovery:              | ft.             |                     |                  |              |                      |             |          | Recovery:                             | ft.             |                     |                  |              |                      |             |          | Recovery:                   | ft.             |                     |                  |              |                      |             |          |
|                            |                        | ft.             |                     |                  |              |                      |             |          |                                       | ft.             |                     |                  |              |                      |             |          |                             | ft.             |                     |                  |              |                      |             |          |
| ABANDONMENT PLUGS          | No.                    | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                                   | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                         | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| LOGS                       | Type                   | Int.            |                     |                  |              |                      |             |          | Type                                  | Int.            |                     |                  |              |                      |             |          | Type                        | Int.            |                     |                  |              |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |
| REMARKS                    | 12:00-3:00 DRILLING    |                 |                     |                  |              |                      |             |          | 8:00-9:00 DRILLING-9:00-9:30 GREASING |                 |                     |                  |              |                      |             |          | 4:00-5:00 LOGGING           |                 |                     |                  |              |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          | 9:30-1:20 DRILLING                    |                 |                     |                  |              |                      |             |          | 5:00-6:45 WAITING ON CLOCKS |                 |                     |                  |              |                      |             |          |
|                            |                        |                 |                     |                  |              |                      |             |          |                                       |                 |                     |                  |              |                      |             |          |                             |                 |                     |                  |              |                      |             |          |

COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 20, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR INDIAN DRILLING RIG No. 5 Licensed Well Name & Location CLIMAX RAMPARTS #1 K. B. Elev. 1000

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                                    |                     |                                |              |                      |             |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                                         |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|------------------------------------|---------------------|--------------------------------|--------------|----------------------|-------------|----------|-----------------------------------|-----------------------------------------|---------------------|------------------------|--------------|----------------------|-------------|----------|------------------|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|
|                            | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                                    | Hole Made This Tour |                                | End of Tour  |                      |             |          | Start of Tour                     |                                         | Hole Made This Tour |                        | End of Tour  |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| DEPTH                      | 1463                              |                 | 18                  |                  | 1481         |                      |             |          | 1481                              |                                    | 13                  |                                | 1494         |                      |             |          | 1494                              |                                         | 8                   |                        | 1502         |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                                    | Off Bottom          |                                | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                                         | Off Bottom          |                        | On Bottom    |                      | Off Bottom  |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                                | Type                | Condition                      | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                                     | Type                | Condition              | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | 4 3/4                             | 20              | K1                  |                  |              |                      | 33          | 15 1/4   | 4 3/4                             | 20                                 | K1                  |                                |              |                      | 43          | 18 3/4   | 4 3/4                             | 21                                      | K1                  | NEW                    |              |                      | 8           | 4        |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands                             | Singles             | Drill Collar                   | Kelly        | Core Bbl.            |             |          | Size                              | Stands                                  | Singles             | Drill Collar           | Kelly        | Core Bbl.            |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           |             | Kind     | Time                              | Weight                             | Vis.                | Gel Str.                       | pH           | Am't Added           |             | Kind     | Time                              | Weight                                  | Vis.                | Gel Str.               | pH           | Am't Added           |             | Kind     |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | 2:00                              | 11.2            | 47                  |                  |              | 1 BBL. WATER         |             |          | 9:30                              | 11.2                               | 45                  |                                |              |                      |             |          | 10:00                             | 11.2                                    | 47                  |                        |              | 400 GAL              |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | 6:00                              | 11.2            | 47                  |                  |              |                      |             |          |                                   |                                    |                     |                                |              |                      |             |          |                                   |                                         |                     |                        |              | 600 BBL.             |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| CORING                     | Time                              | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     | Time                              | Interval                           |                     | Ft. Cut                        |              | Ft. Rec'd            |             | Type     | Time                              | Interval                                |                     | Ft. Cut                |              | Ft. Rec'd            |             | Type     |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |          | 1:50 min                          | 1491 - 1497                        |                     | 6                              |              | 0                    |             |          | 1:23 min                          | 1491 - 1497                             |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| SURVEY                     | Depth                             | Degrees Off     |                     | Depth            | Degrees Off  |                      |             |          | Depth                             | Degrees Off                        |                     | Depth                          | Degrees Off  |                      |             |          | Depth                             | Degrees Off                             |                     | Depth                  | Degrees Off  |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |             |          | New/Used                          | Grade                              |                     | Cubic Feet of Mix (Dry Volume) |              |                      |             |          | Type of Cementing Material        | ADDITIVES Including Ratio or Percentage |                     | Slurry Weight Lb./Gal. |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.                           | Type                | Interval                       | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.                                | Type                | Interval               | Shot/Ft.     | Type                 |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.                       | Kind                | Breakdown Press.               | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.                            | Kind                | Breakdown Press.       | Final Press. | Feed Rate Bbls./Min. |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                               | Interval Tested |                     | to               |              |                      |             |          | No.                               | Interval Tested                    |                     | to                             |              |                      |             |          | No.                               | Interval Tested                         |                     | to                     |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Valve Open                        | min.            |                     | Shut in          |              | mins.                |             |          | Valve Open                        | min.                               |                     | Shut in                        |              | mins.                |             |          | Valve Open                        | min.                                    |                     | Shut in                |              | mins.                |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Gas to Surface                    | min.            |                     | @                |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.                               |                     | @                              |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.                                    |                     | @                      |              | Mcf/d Max.           |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Oil to Surface                    | min.            |                     | @                |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.                               |                     | @                              |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.                                    |                     | @                      |              | Bbl/d Max.           |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Recovery:                         | ft.             |                     |                  |              |                      |             |          | Recovery:                         | ft.                                |                     |                                |              |                      |             |          | Recovery:                         | ft.                                     |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |          |                                   | ft.                                |                     |                                |              |                      |             |          |                                   | ft.                                     |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |          |                                   | ft.                                |                     |                                |              |                      |             |          |                                   | ft.                                     |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval                           | Cement              | Additive                       | Plug Down    | Felt At              | Time        |          | No.                               | Interval                                | Cement              | Additive               | Plug Down    | Felt At              | Time        |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |             |          | Type                              | Int.                               |                     |                                |              |                      |             |          | Type                              | Int.                                    |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | 12:00 - 8:00                      | DRILLING        |                     |                  |              |                      |             |          | 8:00 - 9:50                       | DRILLING                           |                     |                                |              |                      |             |          | 4:00 - 5:23                       | CORING                                  |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |          | 9:50 - 11:55                      | DRILLING                           |                     |                                |              |                      |             |          | 5:23 - 7:30                       | TRIPPING                                |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |          | 11:55 - 2:10                      | TRIPPING AND MAKING UP CORE BARREL |                     |                                |              |                      |             |          | 7:30 - 9:00                       | REAMING                                 |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |             |          | 2:10 - 4:00                       | CORING                             |                     |                                |              |                      |             |          | 9:00 - 12:00                      | DRILLING                                |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| REMARKS                    |                                   |                 |                     |                  |              |                      |             |          |                                   |                                    |                     |                                |              |                      |             |          |                                   |                                         |                     |                        |              |                      |             |          |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| Operator                   | Driller PETERS                    |                 |                     |                  |              |                      |             |          | Operator                          |                                    |                     |                                |              |                      |             |          | Driller HUMBEKE                   |                                         |                     |                        |              |                      |             |          | Operator HUMBEKE |  |  |  |  |  |  |  | Driller PETERS |  |  |  |  |  |  |  |

COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 19, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILLING RIG No. 5 Licensed Well Name & Location GLACIER HAYSEAL CLIMAX RAMPARTS #1 K. B. Elev. 1463

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.    |                 |                     |                  |              |                      |                                |                                      | SECOND TOUR 8:00 a.m. — 4:00 p.m.       |                        |                     |                      |          |                 |                                              |                  | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|----------------------------|--------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|--------------------------------|--------------------------------------|-----------------------------------------|------------------------|---------------------|----------------------|----------|-----------------|----------------------------------------------|------------------|-----------------------------------|----------------------|---------------------|-----------------|-------|------------------|--------------|----------------------|------------|-----------|---------|------|
|                            | Start of Tour                        |                 | Hole Made This Tour |                  |              |                      | End of Tour                    |                                      | Start of Tour                           |                        | Hole Made This Tour |                      |          |                 | End of Tour                                  |                  | Start of Tour                     |                      | Hole Made This Tour |                 |       |                  | End of Tour  |                      |            |           |         |      |
| DEPTH                      | 1420                                 |                 | 17                  |                  |              |                      | 1437                           |                                      | 1437                                    |                        | 11                  |                      |          |                 | 1448                                         |                  | 1448                              |                      | 15                  |                 |       |                  | 1463         |                      |            |           |         |      |
| TIME                       | On Bottom                            |                 | Off Bottom          |                  |              |                      | On Bottom                      |                                      | Off Bottom                              |                        | On Bottom           |                      |          |                 | Off Bottom                                   |                  | On Bottom                         |                      | Off Bottom          |                 |       |                  | On Bottom    |                      | Off Bottom |           |         |      |
| BIT RECORD                 | Size                                 | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled                    | Bit-hrs.                             | Size                                    | No.                    | Type                | Condition            | Wt.      | R.P.M.          | Ft. Drilled                                  | Bit-hrs.         | Size                              | No.                  | Type                | Condition       | Wt.   | R.P.M.           | Ft. Drilled  | Bit-hrs.             |            |           |         |      |
|                            | 4 3/4                                | 19              | K1                  |                  |              | 5                    | 27                             | 12                                   | 4 3/4                                   | 19                     | K1                  |                      |          |                 | 38                                           | 17 1/2           | 4 3/4                             | 20                   | K1                  | NEW             |       |                  |              | 15                   | 7 1/4      |           |         |      |
| DRILL PIPE                 | Size                                 | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |                                |                                      | Size                                    | Stands                 | Singles             | Drill Collar         | Kelly    | Core Bbl.       |                                              |                  | Size                              | Stands               | Singles             | Drill Collar    | Kelly | Core Bbl.        |              |                      |            |           |         |      |
|                            | 2 3/8                                | 70              | 70                  |                  |              |                      |                                |                                      | 2 3/8                                   | 71                     | 71                  | 1                    |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
| MUD RECORD                 | Time                                 | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind                           |                                      | Time                                    | Weight                 | Vis.                | Gel Str.             | pH       | Am't Added      | Kind                                         |                  | Time                              | Weight               | Vis.                | Gel Str.        | pH    | Am't Added       | Kind         |                      |            |           |         |      |
|                            | 3:00                                 | 11.1            | 47                  |                  |              |                      |                                |                                      | 4:00                                    | 11.1                   | 47                  | 3.3                  | 8        |                 |                                              |                  | 5:00                              | 11.2                 | 50                  |                 |       |                  | 45 GALS.     | WATER                |            |           |         |      |
|                            | 7:00                                 | 11.15           | 48                  |                  |              |                      |                                |                                      | 12:00                                   | 11.2                   | 47                  |                      |          |                 |                                              |                  | 10:00                             | 11.2                 | 48                  | 8               | 10    |                  |              |                      |            |           |         |      |
| CORING                     | Time                                 | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |                                |                                      | Time                                    | Interval               | Ft. Cut             | Ft. Rec'd            | Type     |                 |                                              |                  | Time                              | Interval             | Ft. Cut             | Ft. Rec'd       | Type  |                  |              |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                |                                      |                                         |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
| SURVEY                     | Depth                                | Degrees Off     | Depth               | Degrees Off      |              |                      |                                |                                      | Depth                                   | Degrees Off            | Depth               | Degrees Off          |          |                 |                                              |                  | Depth                             | Degrees Off          | Depth               | Degrees Off     |       |                  |              |                      |            |           |         |      |
| CASING & CEMENTING DETAILS | Size                                 | Amount          | Set at K.B.         | Wt./Ft.          | New/Used     | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material           | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
| PERFORATING                | Interval                             | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 | Interval                       | Shot/Ft.                             | Type                                    | Interval               | Shot/Ft.            | Type                 | Interval | Shot/Ft.        | Type                                         | Interval         | Shot/Ft.                          | Type                 | Interval            | Shot/Ft.        | Type  | Interval         | Shot/Ft.     | Type                 |            |           |         |      |
| ACIDIZING or FRACING       | Interval                             | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval                       | Amount Gals.                         | Kind                                    | Breakdown Press.       | Final Press.        | Feed Rate Bbls./Min. | Interval | Amount Gals.    | Kind                                         | Breakdown Press. | Final Press.                      | Feed Rate Bbls./Min. | Interval            | Amount Gals.    | Kind  | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |            |           |         |      |
| FORMATION TESTS            | No.                                  | Interval Tested | to                  | min.             | Shut in      | mins.                | No.                            | Interval Tested                      | to                                      | min.                   | Shut in             | mins.                | No.      | Interval Tested | to                                           | min.             | Shut in                           | mins.                | No.                 | Interval Tested | to    | min.             | Shut in      | mins.                |            |           |         |      |
|                            |                                      | Valve Open      |                     |                  |              |                      |                                | Valve Open                           |                                         |                        |                     |                      |          | Valve Open      |                                              |                  |                                   |                      |                     | Valve Open      |       |                  |              |                      |            |           |         |      |
|                            |                                      | Gas to Surface  | min.                | @                |              | Mcf/d Max.           |                                | Gas to Surface                       | min.                                    | @                      |                     | Mcf/d Max.           |          | Gas to Surface  | min.                                         | @                |                                   | Mcf/d Max.           |                     | Gas to Surface  | min.  | @                |              | Mcf/d Max.           |            |           |         |      |
|                            |                                      | Oil to Surface  | min.                | @                |              | Bbl/d Max.           |                                | Oil to Surface                       | min.                                    | @                      |                     | Bbl/d Max.           |          | Oil to Surface  | min.                                         | @                |                                   | Bbl/d Max.           |                     | Oil to Surface  | min.  | @                |              | Bbl/d Max.           |            |           |         |      |
|                            |                                      | Recovery:       | ft.                 |                  |              |                      |                                | Recovery:                            | ft.                                     |                        |                     |                      |          | Recovery:       | ft.                                          |                  |                                   |                      |                     | Recovery:       | ft.   |                  |              |                      |            |           |         |      |
|                            |                                      |                 | ft.                 |                  |              |                      |                                |                                      | ft.                                     |                        |                     |                      |          |                 | ft.                                          |                  |                                   |                      |                     |                 | ft.   |                  |              |                      |            |           |         |      |
|                            |                                      |                 | ft.                 |                  |              |                      |                                |                                      | ft.                                     |                        |                     |                      |          |                 | ft.                                          |                  |                                   |                      |                     |                 | ft.   |                  |              |                      |            |           |         |      |
| ABANDONMENT PLUGS          | No.                                  | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time                           | No.                                  | Interval                                | Cement                 | Additive            | Plug Down            | Felt At  | Time            | No.                                          | Interval         | Cement                            | Additive             | Plug Down           | Felt At         | Time  | No.              | Interval     | Cement               | Additive   | Plug Down | Felt At | Time |
| LOGS                       | Type                                 | Int.            |                     |                  |              |                      |                                | Type                                 | Int.                                    |                        |                     |                      |          |                 | Type                                         | Int.             |                                   |                      |                     |                 |       | Type             | Int.         |                      |            |           |         |      |
|                            | 12:00 - 8:00                         | DRILLING        |                     |                  |              |                      |                                | 8:00 - 8:30                          | DRILLING                                |                        |                     |                      |          |                 | 4:00 - 4:48                                  | TRIPPING         |                                   |                      |                     |                 |       | 4:48 - 12:00     | DRILLING     |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                | 8:30 - 8:45                          | GREASING                                |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                | 8:45 - 12:52                         | DRILLING                                |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                | 12:52 - 2:10                         | REPLACE BROKEN PUMP ROD                 |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                | 2:10 - 3:15                          | DRILLING                                |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |                                | 3:15 - 4:00                          | TRIPPING                                |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
| REMARKS                    |                                      |                 |                     |                  |              |                      |                                |                                      |                                         |                        |                     |                      |          |                 |                                              |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |
|                            | Operator _____ Driller <u>PETERS</u> |                 |                     |                  |              |                      |                                | Operator _____ Driller <u>HUMBKE</u> |                                         |                        |                     |                      |          |                 | Operator <u>HUMBKE</u> Driller <u>PETERS</u> |                  |                                   |                      |                     |                 |       |                  |              |                      |            |           |         |      |

COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 15, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAY SEN. CLIMAX RAMPARTS #1 K. B. Elev.       

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                            |                                         |                        |              |                      |                       |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                 |                     |                  |              |                      |              |          |        |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|----------------------------|-----------------------------------------|------------------------|--------------|----------------------|-----------------------|----------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|--------------|----------|--------|
|                            | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                            | Hole Made This Tour                     |                        | End of Tour  |                      |                       |          | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |              |          |        |
| DEPTH                      | 1357                              |                 | 26                  |                  | 1383         |                      |             |          | 1383                              |                            | 20                                      |                        | 1403         |                      |                       |          | 1403                              |                 | 17                  |                  | 1420         |                      |              |          |        |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                            | Off Bottom                              |                        | On Bottom    |                      | Off Bottom            |          | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom   |          |        |
| BIT RECORD                 | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                        | Type                                    | Condition              | Wt.          | R.P.M.               | Ft. Drilled           | Bit-hrs. | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled  | Bit-hrs. |        |
|                            | 4 3/4                             | 15              | K1                  | NEW              |              |                      | 26          | 8 1/4    | 4 3/4                             | 18                         | K1                                      |                        |              |                      |                       | 46       | 15 1/2                            | 4 3/4           | 18                  | K1               |              |                      |              | 53       | 18 1/2 |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     | NEW              |              |                      |              | 10       | 4      |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands                     | Singles                                 | Drill Collar           | Kelly        | Core Bbl.            |                       |          | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |              |          |        |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                              | Weight                     | Vis.                                    | Gel Str.               | pH           | Am't Added           | Kind                  |          | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind         |          |        |
|                            | 3:00                              | 11.1            | 46                  |                  |              |                      |             |          | 12:00                             | 11.1                       | 47                                      |                        |              |                      |                       |          | 9:00                              | 11.1            | 49                  | 8.4              | 7.5          | 5+15                 | QUARTIC & BX |          |        |
|                            | 7:00                              | 11.1            | 46                  | 9                | 8            |                      |             |          | 3:00                              | 11.1                       | 45                                      |                        |              |                      |                       |          | 11:00                             | 11.1            | 45                  |                  |              |                      |              |          |        |
| CORING                     | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          | Time                              | Interval                   | Ft. Cut                                 | Ft. Rec'd              | Type         |                      |                       |          | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
| SURVEY                     | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          | Depth                             | Degrees Off                | Depth                                   | Degrees Off            |              |                      |                       |          | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |              |          |        |
| CASING & CEMENTING DETAILS | Size                              | Amount          | Set at K.B.         | Wt./Ft.          | New/Used     | Grade                |             |          | Cubic Feet of Mix (Dry Volume)    | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.     | Type                 |                       |          | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |              |          |        |
| ACIDIZING or FLUORINATING  | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate bbls./Min. |             |          | Interval                          | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press. | Feed Rate bbls./Min. |                       |          | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate bbls./Min. |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
| FORMATION TESTS            | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |             |          | No.                               | Interval Tested            | to                                      | min.                   | Shut in      | mins.                |                       |          | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |              |          |        |
|                            |                                   | Valve Open      |                     |                  |              |                      |             |          |                                   | Valve Open                 |                                         |                        |              |                      |                       |          |                                   | Valve Open      |                     |                  |              |                      |              |          |        |
|                            |                                   | Gas to Surface  | min.                | @                |              | Mcf/d Max.           |             |          |                                   | Gas to Surface             | min.                                    | @                      |              | Mcf/d Max.           |                       |          |                                   | Gas to Surface  | min.                | @                |              | Mcf/d Max.           |              |          |        |
|                            |                                   | Oil to Surface  | min.                | @                |              | Bbl/d Max.           |             |          |                                   | Oil to Surface             | min.                                    | @                      |              | Bbl/d Max.           |                       |          |                                   | Oil to Surface  | min.                | @                |              | Bbl/d Max.           |              |          |        |
|                            |                                   | Recovery:       | ft.                 |                  |              |                      |             |          |                                   | Recovery:                  | ft.                                     |                        |              |                      |                       |          |                                   | Recovery:       | ft.                 |                  |              |                      |              |          |        |
|                            |                                   |                 | ft.                 |                  |              |                      |             |          |                                   |                            | ft.                                     |                        |              |                      |                       |          |                                   |                 | ft.                 |                  |              |                      |              |          |        |
|                            |                                   |                 | ft.                 |                  |              |                      |             |          |                                   |                            | ft.                                     |                        |              |                      |                       |          |                                   |                 | ft.                 |                  |              |                      |              |          |        |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval                   | Cement                                  | Additive               | Plug Down    | Felt At              | Time                  |          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time         |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |             |          | Type                              | Int.                       |                                         |                        |              |                      |                       |          | Type                              | Int.            |                     |                  |              |                      |              |          |        |
|                            | 12:00 - 8:00                      | DRILLING        |                     |                  |              |                      |             |          | 8:00 - 8:15                       | DRILLING                   |                                         |                        |              |                      |                       |          | 4:00 - 6:25                       | DRILLING        |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          | 8:15 - 8:35                       | GREASING                   |                                         |                        |              |                      |                       |          | 6:25 - 8:00                       | TRIPPING        |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          | 8:35 - 4:00                       | DRILLING                   |                                         |                        |              |                      |                       |          | 8:00 - 12:00                      | DRILLING        |                     |                  |              |                      |              |          |        |
| REMARKS                    |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |
| Operator                   | Driller <u>PETERS</u>             |                 |                     |                  |              |                      |             | Operator |                                   |                            |                                         |                        |              |                      | Driller <u>HUMBKE</u> |          |                                   |                 |                     |                  |              |                      |              |          |        |
|                            |                                   |                 |                     |                  |              |                      |             |          |                                   |                            |                                         |                        |              |                      |                       |          |                                   |                 |                     |                  |              |                      |              |          |        |



COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT 17, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILLING RIG No. 5 Licensed Well Name & Location GLACIER BASIN & CLIMAX RAMPARTS #1 K. B. Elev. .....

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                                       |                  |              |                      |                                |                            |                                         |                        | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                      |                |                        |                     |                  |                                |                            |      |  | THIRD TOUR 4:00 p.m. — 12:00 p.m. |  |  |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------|-----------------|---------------------------------------|------------------|--------------|----------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|-----------------------------------|----------------------|----------------|------------------------|---------------------|------------------|--------------------------------|----------------------------|------|--|-----------------------------------|--|--|--|--|--|--|--|--|--|
|                            | Start of Tour                     |                 | Hole Made This Tour                   |                  | End of Tour  |                      | Start of Tour                  |                            | Hole Made This Tour                     |                        | End of Tour                       |                      | Start of Tour  |                        | Hole Made This Tour |                  | End of Tour                    |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| DEPTH                      | 1302                              |                 | 14                                    |                  | 1316         |                      | 1316                           |                            | 20                                      |                        | 1336                              |                      | 1336           |                        | 21                  |                  | 1357                           |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| TIME                       | On Bottom                         |                 | Off Bottom                            |                  | On Bottom    |                      | Off Bottom                     |                            | On Bottom                               |                        | Off Bottom                        |                      | On Bottom      |                        | Off Bottom          |                  | On Bottom                      |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                              | No.             | Type                                  | Condition        | Wt.          | R.P.M.               | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type                              | Condition            | Wt.            | R.P.M.                 | Ft. Drilled         | Bit-hrs.         | Size                           | No.                        |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | 4 3/4                             | 16              | K1                                    |                  |              |                      | 44                             | 16 1/2                     | 4 3/4                                   | 17                     | K1                                |                      |                |                        |                     | 30               | 11 1/4                         | 4 3/4                      | 18   |  |                                   |  |  |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                              | Stands          | Singles                               | Drill Collar     | Kelly        | Core Bbl.            | Size                           | Stands                     | Singles                                 | Drill Collar           | Kelly                             | Core Bbl.            | Size           | Stands                 | Singles             | Drill Collar     | Kelly                          | Core Bbl.                  |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                              | Weight          | Vis.                                  | Gel Str.         | pH           | Am't Added           | Kind                           | Time                       | Weight                                  | Vis.                   | Gel Str.                          | pH                   | Am't Added     | Kind                   | Time                | Weight           | Vis.                           | Gel Str.                   |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | 100                               | 11.1            | 46                                    |                  |              |                      |                                | 10:00                      | 11.1                                    | 42                     |                                   |                      |                | 800 MUD WEIGHT 400 GEL |                     | 12:00            | 11.1                           | 46                         |      |  |                                   |  |  |  |  |  |  |  |  |  |
| CORING                     | Time                              | Interval        | Ft. Cut                               | Ft. Rec'd        | Type         | Time                 | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time                              | Interval             | Ft. Cut        | Ft. Rec'd              | Type                | Time             | Interval                       | Ft. Cut                    |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| SURVEY                     | Depth                             | Degrees Off     | Depth                                 | Degrees Off      | Depth        | Degrees Off          | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth                             | Degrees Off          | Depth          | Degrees Off            | Depth               | Degrees Off      | Depth                          | Degrees Off                |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount          | Set at K.B.                           | Vt./Ft.          | New/Used     | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. | Size                              | Amount               | Set at K.B.    | Vt./Ft.                | New/Used            | Grade            | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                                  | Interval         | Shot/Ft.     | Type                 | Interval                       | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.                          | Type                 | Interval       | Shot/Ft.               | Type                | Interval         | Shot/Ft.                       | Type                       |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                                  | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press.                      | Feed Rate Bbls./Min. | Interval       | Amount Gals.           | Kind                | Breakdown Press. | Final Press.                   | Feed Rate Bbls./Min.       |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                               | Interval Tested | to                                    | min.             | Shut in      | mins.                | No.                            | Interval Tested            | to                                      | min.                   | Shut in                           | mins.                | No.            | Interval Tested        | to                  | min.             | Shut in                        | mins.                      |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | Valve Open                        |                 |                                       |                  |              |                      | Valve Open                     |                            |                                         |                        |                                   |                      | Valve Open     |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | Gas to Surface                    | min.            | @                                     |                  |              | Mcf/d Max.           | Gas to Surface                 | min.                       | @                                       |                        |                                   | Mcf/d Max.           | Gas to Surface | min.                   | @                   |                  |                                | Mcf/d Max.                 |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | Oil to Surface                    | min.            | @                                     |                  |              | Bbl/d Max.           | Oil to Surface                 | min.                       | @                                       |                        |                                   | Bbl/d Max.           | Oil to Surface | min.                   | @                   |                  |                                | Bbl/d Max.                 |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | Recovery:                         | ft.             |                                       |                  |              |                      | Recovery:                      | ft.                        |                                         |                        |                                   |                      | Recovery:      | ft.                    |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement                                | Additive         | Plug Down    | Felt At              | Time                           | No.                        | Interval                                | Cement                 | Additive                          | Plug Down            | Felt At        | Time                   | No.                 | Interval         | Cement                         | Additive                   |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| LOGS                       | Type                              | Int.            | Type                                  |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            | Int. |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | 1200 - 200                        | DRILLING        | 8:00 - 8:15 DRILLING                  |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
| REMARKS                    | 200 - 400                         | TRIPPING        | 8:15 - 8:45 GREASING                  |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | 400 - 800                         | DRILLING        | 8:45 - 2:05 DRILLING                  |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 | 2:05 - 2:25 MIXING MUD 800 MUD WEIGHT |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 | 2:25 - 4:00 DRILLING 400 GEL          |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            | Operator                          | Driller PETERS  |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   | Operator HUMORE |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   | Operator HUMORE |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |
|                            |                                   | Driller PETERS  |                                       |                  |              |                      |                                |                            |                                         |                        |                                   |                      |                |                        |                     |                  |                                |                            |      |  |                                   |  |  |  |  |  |  |  |  |  |

COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 16BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAYSEL CLIMAX RAMPARTS #1 K. B. Elev.       

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.                       |                 |                     |                  |              |                      |             |                                              | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                 |                     |                  |              |                      |                                              |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                                         |                        |                  |              |                      |             |            |        |
|----------------------------|---------------------------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------------------------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|----------------------------------------------|----------|-----------------------------------|-----------------------------------------|------------------------|------------------|--------------|----------------------|-------------|------------|--------|
|                            | Start of Tour                                           |                 | Hole Made This Tour |                  | End of Tour  |                      |             |                                              | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |                                              |          | Start of Tour                     |                                         | Hole Made This Tour    |                  | End of Tour  |                      |             |            |        |
| DEPTH                      | 1259                                                    |                 | 3                   |                  | 1262         |                      |             |                                              | 1262                              |                 | 17                  |                  | 1279         |                      |                                              |          | 1279                              |                                         | 23                     |                  | 1302         |                      |             |            |        |
| TIME                       | On Bottom                                               |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                                              | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom                                   |          | On Bottom                         |                                         | Off Bottom             |                  | On Bottom    |                      | Off Bottom  |            |        |
| BIT RECORD                 | Size                                                    | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.                                     | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled                                  | Bit-hrs. | Size                              | No.                                     | Type                   | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.   |        |
|                            | 4 3/4                                                   | 15              | K1                  |                  |              |                      | 39          | 16 1/4                                       | 4 3/4                             | 16              | K1                  | NEW              |              |                      |                                              | 17       | 6 1/2                             | 4 3/4                                   | 16                     | K1               |              |                      |             | 40         | 14 1/2 |
|                            | 4 3/4                                                   | 110             | K1                  | NEW              |              |                      |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
| DRILL PIPE                 | Size                                                    | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                                              | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |                                              |          | Size                              | Stands                                  | Singles                | Drill Collar     | Kelly        | Core Bbl.            |             |            |        |
| MUD RECORD                 | Time                                                    | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                                              | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind                                         |          | Time                              | Weight                                  | Vis.                   | Gel Str.         | pH           | Am't Added           | Kind        |            |        |
|                            |                                                         |                 |                     |                  |              | 200 GEL              |             |                                              | 11                                | 11.1            | 47                  |                  |              |                      |                                              |          | 7:00                              | 11.1                                    | 48                     | 8                | 6.3          | 20 lbs               | Q1          |            |        |
|                            |                                                         |                 |                     |                  |              | 200 BARITE           |             |                                              | 3                                 | 11.1            | 48                  |                  |              |                      |                                              |          | 11:00                             | 11.05                                   | 46                     |                  |              |                      |             |            |        |
| CORING                     | Time                                                    | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |                                              | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |                                              |          | Time                              | Interval                                | Ft. Cut                | Ft. Rec'd        | Type         |                      |             |            |        |
|                            |                                                         |                 |                     |                  |              |                      |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
| SURVEY                     | Depth                                                   | Degrees Off     | Depth               | Degrees Off      |              |                      |             |                                              | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |                                              |          | Depth                             | Degrees Off                             | Depth                  | Degrees Off      |              |                      |             |            |        |
| CASING & CEMENTING DETAILS | Size                                                    | Amount          | Set at K.B.         | Wt./Ft.          | New/Used     | Grade                |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          | Type of Cementing Material        | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |                  |              |                      |             |            |        |
| PERFORATING                | Interval                                                | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                                              | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |                                              |          | Interval                          | Shot/Ft.                                | Type                   | Interval         | Shot/Ft.     | Type                 |             |            |        |
| ACIDIZING or FRACING       | Interval                                                | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                                              | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                                              |          | Interval                          | Amount Gals.                            | Kind                   | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |            |        |
| FORMATION TESTS            | No.                                                     | Interval Tested | to                  | min.             | Shut in      | mins.                |             |                                              | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |                                              |          | No.                               | Interval Tested                         | to                     | min.             | Shut in      | mins.                |             |            |        |
|                            | Valve Open                                              |                 |                     |                  |              |                      |             |                                              | Valve Open                        |                 |                     |                  |              |                      |                                              |          | Valve Open                        |                                         |                        |                  |              |                      |             |            |        |
|                            | Gas to Surface                                          | min.            | @                   |                  |              | Mcf/d Max.           |             |                                              | Gas to Surface                    | min.            | @                   |                  |              |                      | Mcf/d Max.                                   |          | Gas to Surface                    | min.                                    | @                      |                  |              |                      |             | Mcf/d Max. |        |
|                            | Oil to Surface                                          | min.            | @                   |                  |              | Bbl/d Max.           |             |                                              | Oil to Surface                    | min.            | @                   |                  |              |                      | Bbl/d Max.                                   |          | Oil to Surface                    | min.                                    | @                      |                  |              |                      |             | Bbl/d Max. |        |
|                            | Recovery:                                               | ft.             |                     |                  |              |                      |             |                                              | Recovery:                         | ft.             |                     |                  |              |                      |                                              |          | Recovery:                         | ft.                                     |                        |                  |              |                      |             |            |        |
|                            |                                                         | ft.             |                     |                  |              |                      |             |                                              |                                   | ft.             |                     |                  |              |                      |                                              |          |                                   | ft.                                     |                        |                  |              |                      |             |            |        |
|                            |                                                         | ft.             |                     |                  |              |                      |             |                                              |                                   | ft.             |                     |                  |              |                      |                                              |          |                                   | ft.                                     |                        |                  |              |                      |             |            |        |
| ABANDONMENT PLUGS          | No.                                                     | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                                              | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time                                         |          | No.                               | Interval                                | Cement                 | Additive         | Plug Down    | Felt At              | Time        |            |        |
| LOGS                       | Type                                                    | Int.            |                     |                  |              |                      |             |                                              | Type                              | Int.            |                     |                  |              |                      |                                              |          | Type                              | Int.                                    |                        |                  |              |                      |             |            |        |
| REMARKS                    | 12:00 - 12:45 REPAIR PUMP                               |                 |                     |                  |              |                      |             | 9:00 - 9:45 RUNNING INTO HOLE                |                                   |                 |                     |                  |              |                      | 4:00 - 12:00 DRILLING 1500 ft. 5 casing.     |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | 12:45 - 200 DRILLING                                    |                 |                     |                  |              |                      |             | 9:45 - 9:30 GREASING                         |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | 200 - 230 MIX MUD                                       |                 |                     |                  |              |                      |             | 9:30 - 4:00 DRILLING                         |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | 230 - 345 PULL OUT BIT TWISTED OFF                      |                 |                     |                  |              |                      |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | 345 - 745 FISHING (PICKED UP FISH WITH SPEAR ON 1" RUN) |                 |                     |                  |              |                      |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | 745 - 800 RUNNING IN TO DRILL                           |                 |                     |                  |              |                      |             |                                              |                                   |                 |                     |                  |              |                      |                                              |          |                                   |                                         |                        |                  |              |                      |             |            |        |
|                            | Operator <u>PETERS</u> Driller <u>PETERS</u>            |                 |                     |                  |              |                      |             | Operator <u>HUMBLE</u> Driller <u>PETERS</u> |                                   |                 |                     |                  |              |                      | Operator <u>HUMBLE</u> Driller <u>PETERS</u> |          |                                   |                                         |                        |                  |              |                      |             |            |        |

COMPANY J.C. SPADUE + ASSOCIATES

## DAILY REPORT

DATE SEPT 15, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAYSEA SUMMIT RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                             | FIRST TOUR<br>12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                       |                               |                   | SECOND TOUR<br>8:00 a.m. — 4:00 p.m. |               |                  |                       |                                       |                            |           |                   | THIRD TOUR<br>4:00 p.m. — 12:00 p.m. |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|-----------------------------|--------------------------------------|-----------------|---------------------|------------------|--------------|-----------------------|-------------------------------|-------------------|--------------------------------------|---------------|------------------|-----------------------|---------------------------------------|----------------------------|-----------|-------------------|--------------------------------------|------------------|---------------|----------------------|----------------------------|--------------|--------------|-------------------|------------------|-----------------|----------------------|-----------|-----------|------------|------|
| DEPTH                       | Start of Tour                        |                 | Hole Made This Tour |                  |              |                       | End of Tour                   |                   | DEPTH                                | Start of Tour |                  | Hole Made This Tour   |                                       |                            |           | End of Tour       |                                      | DEPTH            | Start of Tour |                      | Hole Made This Tour        |              |              |                   | End of Tour      |                 |                      |           |           |            |      |
|                             |                                      | 1211            |                     | 12               |              |                       |                               | 1223              |                                      |               | 1223             |                       | 19                                    |                            |           |                   | 1242                                 |                  |               | 1242                 |                            | 17           |              |                   |                  | 1259            |                      |           |           |            |      |
| TIME                        | On Bottom                            |                 | Off Bottom          |                  | On Bottom    |                       | Off Bottom                    |                   | TIME                                 | On Bottom     |                  | Off Bottom            |                                       | On Bottom                  |           | Off Bottom        |                                      | TIME             | On Bottom     |                      | Off Bottom                 |              | On Bottom    |                   | Off Bottom       |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| BIT RECORD                  | Size                                 | No.             | Type                | Condition        | Wt.          | R.P.M.                | Ft. Drilled                   | Bit-hrs.          | BIT RECORD                           | Size          | No.              | Type                  | Condition                             | Wt.                        | R.P.M.    | Ft. Drilled       | Bit-hrs.                             | BIT RECORD       | Size          | No.                  | Type                       | Condition    | Wt.          | R.P.M.            | Ft. Drilled      | Bit-hrs.        |                      |           |           |            |      |
|                             | 4 3/4                                | 14              | K1                  |                  |              |                       | 45                            | 20                |                                      | 4 3/4         | 15               | K1                    | NEW                                   |                            |           |                   |                                      |                  | 19            | 7 1/2                | 4 3/4                      | 15           | K1           |                   |                  |                 |                      | 36        | 15        |            |      |
| DRILL PIPE                  | Size                                 | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.             |                               |                   | DRILL PIPE                           | Size          | Stands           | Singles               | Drill Collar                          | Kelly                      | Core Bbl. |                   |                                      | DRILL PIPE       | Size          | Stands               | Singles                    | Drill Collar | Kelly        | Core Bbl.         |                  |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| MUD RECORD                  | Time                                 | Weight          | Vis.                | Gel Str.         | pH           | Am't Added            | Kind                          | MUD RECORD        | Time                                 | Weight        | Vis.             | Gel Str.              | pH                                    | Am't Added                 | Kind      | MUD RECORD        | Time                                 | Weight           | Vis.          | Gel Str.             | pH                         | Am't Added   | Kind         | MUD RECORD        | Time             | Weight          | Vis.                 | Gel Str.  | pH        | Am't Added | Kind |
|                             | 6:00                                 | 10.9            | 45                  |                  |              | 300# BARITE           |                               |                   | 10:00                                | 11            | 43               |                       |                                       |                            |           |                   |                                      |                  | 7:00          | 10.9                 | 42                         |              |              |                   |                  |                 |                      |           |           |            |      |
| CORING                      | Time                                 | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                       |                               | CORING            | Time                                 | Interval      | Ft. Cut          | Ft. Rec'd             | Type                                  |                            |           | CORING            | Time                                 | Interval         | Ft. Cut       | Ft. Rec'd            | Type                       |              |              | CORING            | Time             | Interval        | Ft. Cut              | Ft. Rec'd | Type      |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| SURVEY                      | Depth                                | Degrees Off     | Depth               | Degrees Off      |              |                       | SURVEY                        | Depth             | Degrees Off                          | Depth         | Degrees Off      |                       |                                       | SURVEY                     | Depth     | Degrees Off       | Depth                                | Degrees Off      |               |                      | SURVEY                     | Depth        | Degrees Off  | Depth             | Degrees Off      |                 |                      |           |           |            |      |
|                             | 1000                                 | 10              |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| CASING & CEMENTING DETAILS  | Size                                 | Amount          | Set at K.B.         | Wt./Ft.          |              |                       | CASING & CEMENTING DETAILS    | Size              | Amount                               | Set at K.B.   | Wt./Ft.          |                       |                                       | CASING & CEMENTING DETAILS | Size      | Amount            | Set at K.B.                          | Wt./Ft.          |               |                      | CASING & CEMENTING DETAILS | Size         | Amount       | Set at K.B.       | Wt./Ft.          |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| PERFORATING                 | Interval                             | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                  | PERFORATING                   | Interval          | Shot/Ft.                             | Type          | Interval         | Shot/Ft.              | Type                                  | PERFORATING                | Interval  | Shot/Ft.          | Type                                 | Interval         | Shot/Ft.      | Type                 | PERFORATING                | Interval     | Shot/Ft.     | Type              | Interval         | Shot/Ft.        | Type                 |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| ACIDIZING or FRACING        | Interval                             | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.  | ACIDIZING or FRACING          | Interval          | Amount Gals.                         | Kind          | Breakdown Press. | Final Press.          | Feed Rate Bbls./Min.                  | ACIDIZING or FRACING       | Interval  | Amount Gals.      | Kind                                 | Breakdown Press. | Final Press.  | Feed Rate Bbls./Min. | ACIDIZING or FRACING       | Interval     | Amount Gals. | Kind              | Breakdown Press. | Final Press.    | Feed Rate Bbls./Min. |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| FORMATION TESTS             | No.                                  | Interval Tested | min.                | Shut in          | mins.        | FORMATION TESTS       | No.                           | Interval Tested   | min.                                 | Shut in       | mins.            | FORMATION TESTS       | No.                                   | Interval Tested            | min.      | Shut in           | mins.                                | FORMATION TESTS  | No.           | Interval Tested      | min.                       | Shut in      | mins.        | FORMATION TESTS   | No.              | Interval Tested | min.                 | Shut in   | mins.     |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| ABANDONMENT PLUGS           | No.                                  | Interval        | Cement              | Additive         | Plug Down    | Felt At               | Time                          | ABANDONMENT PLUGS | No.                                  | Interval      | Cement           | Additive              | Plug Down                             | Felt At                    | Time      | ABANDONMENT PLUGS | No.                                  | Interval         | Cement        | Additive             | Plug Down                  | Felt At      | Time         | ABANDONMENT PLUGS | No.              | Interval        | Cement               | Additive  | Plug Down | Felt At    | Time |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| LOGS                        | Type                                 | Int.            |                     |                  | LOGS         | Type                  | Int.                          |                   |                                      | LOGS          | Type             | Int.                  |                                       |                            | LOGS      | Type              | Int.                                 |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|                             | E-LOG                                | 150 - 1223      |                     |                  |              | E-LOG                 | 150 - 1223                    |                   |                                      |               | E-LOG            | 150 - 1223            |                                       |                            |           | E-LOG             | 150 - 1223                           |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| REMARKS                     | 12:00 - 4:20 DRILLING                |                 |                     |                  |              |                       | 8:00 - 2:30 RUNNING INTO HOLE |                   |                                      |               |                  |                       | 4:00 - 11:30 DRILLING                 |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|                             | 4:20 - 5:40 TRIPPING OUT             |                 |                     |                  |              |                       | 2:30 - 4:00 DRILLING          |                   |                                      |               |                  |                       | 11:30 - 12:00 REPLACE BROKEN PUMP ROD |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| 5:40 - 7:30 LOGGING         |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| 7:30 - 8:00 RUNNING IN HOLE |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
|                             |                                      |                 |                     |                  |              |                       |                               |                   |                                      |               |                  |                       |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| Operator _____              |                                      |                 |                     |                  |              | Operator _____        |                               |                   |                                      |               |                  | Operator _____        |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |
| Driller <u>PETERS</u>       |                                      |                 |                     |                  |              | Driller <u>HUMBRE</u> |                               |                   |                                      |               |                  | Driller <u>PETERS</u> |                                       |                            |           |                   |                                      |                  |               |                      |                            |              |              |                   |                  |                 |                      |           |           |            |      |



COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 14, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILLINGRIG No. 5Licensed Well Name & Location GLACIER BASIN CLIMAX RADIOPARTS #1

K. B. Elev. \_\_\_\_\_

| FIRST TOUR 12:00 p.m. — 8:00 a.m. |  |                                                                                                                                                                   |                 |             |                  |              |                      |                                |                            | SECOND TOUR 8:00 a.m. — 4:00 p.m.       |                        |                     |                      |             |              |             |                  |                                |                            | THIRD TOUR 4:00 p.m. — 12:00 p.m.                                                                                                               |                        |                     |                  |                |                      |             |              |                                |                            |                                         |                        |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
|-----------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|------------------|--------------|----------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|---------------------|----------------------|-------------|--------------|-------------|------------------|--------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|------------------|----------------|----------------------|-------------|--------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|-------------|--------------|-----------|------------------|--------------|----------------------|------------------------------------------------------------------------|---------|-------|----------------|------|---|------------|----------------|------|---|------------|-----------|-----|-----|-----|--|--|--|
| Start of Tour                     |  | Hole Made This Tour                                                                                                                                               |                 |             |                  | End of Tour  |                      |                                |                            | Start of Tour                           |                        | Hole Made This Tour |                      |             |              | End of Tour |                  |                                |                            | Start of Tour                                                                                                                                   |                        | Hole Made This Tour |                  |                |                      | End of Tour |              |                                |                            |                                         |                        |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| DEPTH                             |  | 1168                                                                                                                                                              |                 |             |                  | 12           |                      |                                |                            | 1180                                    |                        |                     |                      | 1180        |              | 14          |                  |                                |                            | 1194                                                                                                                                            |                        |                     |                  | 1194           |                      | 17          |              |                                |                            | 1211                                    |                        |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| TIME                              |  | On Bottom                                                                                                                                                         |                 | Off Bottom  |                  | On Bottom    |                      | Off Bottom                     |                            | On Bottom                               |                        | Off Bottom          |                      | On Bottom   |              | Off Bottom  |                  | On Bottom                      |                            | Off Bottom                                                                                                                                      |                        | On Bottom           |                  | Off Bottom     |                      | On Bottom   |              | Off Bottom                     |                            |                                         |                        |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| BIT RECORD                        |  | Size                                                                                                                                                              | No.             | Type        | Condition        | Wt.          | R.P.M.               | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type                | Condition            | Wt.         | R.P.M.       | Ft. Drilled | Bit-hrs.         | Size                           | No.                        | Type                                                                                                                                            | Condition              | Wt.                 | R.P.M.           | Ft. Drilled    | Bit-hrs.             | Size        | No.          | Type                           | Condition                  | Wt.                                     | R.P.M.                 | Ft. Drilled | Bit-hrs.     |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| DRILL PIPE                        |  | Size                                                                                                                                                              | Stands          | Singles     | Drill Collar     | Kelly        | Core Bbl.            | Size                           | Stands                     | Singles                                 | Drill Collar           | Kelly               | Core Bbl.            | Size        | Stands       | Singles     | Drill Collar     | Kelly                          | Core Bbl.                  | Size                                                                                                                                            | Stands                 | Singles             | Drill Collar     | Kelly          | Core Bbl.            | Size        | Stands       | Singles                        | Drill Collar               | Kelly                                   | Core Bbl.              |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| MUD RECORD                        |  | Time                                                                                                                                                              | Weight          | Vis.        | Gel Str.         | pH           | Am't Added           | Kind                           | Time                       | Weight                                  | Vis.                   | Gel Str.            | pH                   | Am't Added  | Kind         | Time        | Weight           | Vis.                           | Gel Str.                   | pH                                                                                                                                              | Am't Added             | Kind                | Time             | Weight         | Vis.                 | Gel Str.    | pH           | Am't Added                     | Kind                       | Time                                    | Weight                 | Vis.        | Gel Str.     | pH        | Am't Added       | Kind         |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| CORING                            |  | Time                                                                                                                                                              | Interval        | Ft. Cut     | Ft. Rec'd        | Type         | Time                 | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time                | Interval             | Ft. Cut     | Ft. Rec'd    | Type        | Time             | Interval                       | Ft. Cut                    | Ft. Rec'd                                                                                                                                       | Type                   | Time                | Interval         | Ft. Cut        | Ft. Rec'd            | Type        | Time         | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time        | Interval     | Ft. Cut   | Ft. Rec'd        | Type         |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| SURVEY                            |  | Depth                                                                                                                                                             | Degrees Off     | Depth       | Degrees Off      | Depth        | Degrees Off          | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth               | Degrees Off          | Depth       | Degrees Off  | Depth       | Degrees Off      | Depth                          | Degrees Off                | Depth                                                                                                                                           | Degrees Off            | Depth               | Degrees Off      | Depth          | Degrees Off          | Depth       | Degrees Off  | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth       | Degrees Off  | Depth     | Degrees Off      |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| CASING & CEMENTING DETAILS        |  | Size                                                                                                                                                              | Amount          | Set at K.B. | Wt./Ft.          | New/Used     | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. | Size                | Amount               | Set at K.B. | Wt./Ft.      | New/Used    | Grade            | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage                                                                                                         | Slurry Weight Lb./Gal. | Size                | Amount           | Set at K.B.    | Wt./Ft.              | New/Used    | Grade        | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| PERFORATING                       |  | Interval                                                                                                                                                          | Shot/Ft.        | Type        | Interval         | Shot/Ft.     | Type                 | Interval                       | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.            | Type                 | Interval    | Shot/Ft.     | Type        | Interval         | Shot/Ft.                       | Type                       | Interval                                                                                                                                        | Shot/Ft.               | Type                | Interval         | Shot/Ft.       | Type                 | Interval    | Shot/Ft.     | Type                           | Interval                   | Shot/Ft.                                | Type                   | Interval    | Shot/Ft.     | Type      |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| ACIDIZING or FRACING              |  | Interval                                                                                                                                                          | Amount Gals.    | Kind        | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press.        | Feed Rate Bbls./Min. | Interval    | Amount Gals. | Kind        | Breakdown Press. | Final Press.                   | Feed Rate Bbls./Min.       | Interval                                                                                                                                        | Amount Gals.           | Kind                | Breakdown Press. | Final Press.   | Feed Rate Bbls./Min. | Interval    | Amount Gals. | Kind                           | Breakdown Press.           | Final Press.                            | Feed Rate Bbls./Min.   | Interval    | Amount Gals. | Kind      | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| FORMATION TESTS                   |  | No.                                                                                                                                                               | Interval Tested | min.        | Shut in          | mins.        | Gas to Surface       | min.                           | @                          | Mcf/d Max.                              | Oil to Surface         | min.                | @                    | Bbl/d Max.  | Recovery:    | ft.         | ft.              | ft.                            | No.                        | Interval Tested                                                                                                                                 | min.                   | Shut in             | mins.            | Gas to Surface | min.                 | @           | Mcf/d Max.   | Oil to Surface                 | min.                       | @                                       | Bbl/d Max.             | Recovery:   | ft.          | ft.       | ft.              | No.          | Interval Tested      | min.                                                                   | Shut in | mins. | Gas to Surface | min. | @ | Mcf/d Max. | Oil to Surface | min. | @ | Bbl/d Max. | Recovery: | ft. | ft. | ft. |  |  |  |
| ABANDONMENT PLUGS                 |  | No.                                                                                                                                                               | Interval        | Cement      | Additive         | Plug Down    | Felt At              | Time                           | No.                        | Interval                                | Cement                 | Additive            | Plug Down            | Felt At     | Time         | No.         | Interval         | Cement                         | Additive                   | Plug Down                                                                                                                                       | Felt At                | Time                | No.              | Interval       | Cement               | Additive    | Plug Down    | Felt At                        | Time                       | No.                                     | Interval               | Cement      | Additive     | Plug Down | Felt At          | Time         |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| LOGS                              |  | Type                                                                                                                                                              | Int.            |             |                  |              |                      |                                |                            | Type                                    | Int.                   |                     |                      |             |              |             |                  | Type                           | Int.                       |                                                                                                                                                 |                        |                     |                  |                |                      |             |              |                                |                            |                                         |                        |             |              |           |                  |              |                      |                                                                        |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| REMARKS                           |  | 12:00 - 3:30 DRILLING<br>3:30 - 5:00 TRIPPING<br>5:00 - 6:15 DRILLING LOSING FLUID 1178<br>6:15 - 6:45 MIX MUD<br>6:45 - 7:15 REPAIR PUMP<br>7:15 - 8:00 DRILLING |                 |             |                  |              |                      |                                |                            |                                         |                        |                     |                      |             |              |             |                  |                                |                            | 8:00 - 8:45 DRILLING<br>8:45 - 9:45 GRINDING<br>9:45 - 10:30 DRILLING<br>10:30 - 11:30 MIX MUD AND CHECK TRANSFER CASE<br>11:30 - 4:00 DRILLING |                        |                     |                  |                |                      |             |              |                                |                            |                                         |                        |             |              |           |                  |              |                      | 4:00 - 5:10 DRILLING<br>5:10 - 5:38 MIXING MUD<br>5:38 - 8:00 DRILLING |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |
| Operator                          |  | Driller PETERS                                                                                                                                                    |                 |             |                  |              |                      |                                |                            |                                         |                        |                     |                      |             |              |             |                  |                                |                            | Driller HUMBRE                                                                                                                                  |                        |                     |                  |                |                      |             |              |                                |                            |                                         |                        |             |              |           |                  |              |                      | Driller PETERS                                                         |         |       |                |      |   |            |                |      |   |            |           |     |     |     |  |  |  |

COMPANY J.C. SPAGOLE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 13, 1960

BOARD COPY

(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRAG RIG No. 5 Licensed Well Name & Location GLACIER BAYSEAL CANYON RAMPARTS #1 K. B. Elev. .....

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |                                |                            | SECOND TOUR 8:00 a.m. — 4:00 p.m.       |                        |                     |                      |                 |                 |              |                  | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|---------------------|----------------------|-----------------|-----------------|--------------|------------------|-----------------------------------|----------------------------|-----------------------------------------|------------------------|-------------|------------------|--------------|----------------------|----------------|-----------------|---------|------|--|--|--|--|--|--|--|--|
|                            | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |                                |                            | Start of Tour                           |                        | Hole Made This Tour |                      | End of Tour     |                 |              |                  | Start of Tour                     |                            | Hole Made This Tour                     |                        | End of Tour |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| DEPTH                      | 1103                              |                 | 18                  |                  | 1121         |                      |                                |                            | 1121                                    |                        | 23                  |                      | 1144            |                 |              |                  | 1144                              |                            | 24                                      |                        | 1168        |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom                     |                            | On Bottom                               |                        | Off Bottom          |                      | On Bottom       |                 | Off Bottom   |                  | On Bottom                         |                            | Off Bottom                              |                        | On Bottom   |                  | Off Bottom   |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| BITS RECORD                | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type                | Condition            | Wt.             | R.P.M.          | Ft. Drilled  | Bit-hrs.         | Size                              | No.                        | Type                                    | Condition              | Wt.         | R.P.M.           | Ft. Drilled  | Bit-hrs.             |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 4 3/4                             | 12              | K1                  |                  |              |                      | 50                             | 15 3/4                     | 4 3/4                                   | 13                     | K1                  |                      |                 |                 | 23           | 7 3/4            | 4 3/4                             | 13                         | K1                                      |                        |             |                  | 47           | 15 3/4               |                |                 |         |      |  |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |                                |                            | Size                                    | Stands                 | Singles             | Drill Collar         | Kelly           | Core Bbl.       |              |                  | Size                              | Stands                     | Singles                                 | Drill Collar           | Kelly       | Core Bbl.        |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 2 3/8                             | 54              | 54                  | 1                |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind                           | Time                       | Weight                                  | Vis.                   | Gel Str.            | pH                   | Am't Added      | Kind            | Time         | Weight           | Vis.                              | Gel Str.                   | pH                                      | Am't Added             | Kind        | Time             | Weight       | Vis.                 |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 2:00                              | 11              | 45                  |                  |              |                      |                                | 10:30                      | 11.1                                    | 45                     | 9.4                 | 8                    |                 |                 | 6:00         | 11               | 45                                |                            |                                         |                        |             | 10:00            | 11.1         | 46                   |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 5:00                              | 10.9            | 45                  |                  |              | 300                  | BARITE                         | 3:00                       | 11                                      | 46                     |                     |                      |                 |                 |              |                  | 9.6                               | 10.5                       | 10 <sup>th</sup> Q x 10 <sup>th</sup>   | CRUSTIC                |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| CORING                     | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         | Time                 | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time                | Interval             | Ft. Cut         | Ft. Rec'd       | Type         | Time             | Interval                          | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time        | Interval         | Ft. Cut      | Ft. Rec'd            | Type           |                 |         |      |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| SURVEY                     | Depth                             | Degrees Off     | Depth               | Degrees Off      | Depth        | Degrees Off          | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth               | Degrees Off          | Depth           | Degrees Off     | Depth        | Degrees Off      | Depth                             | Degrees Off                | Depth                                   | Degrees Off            | Depth       | Degrees Off      | Depth        | Degrees Off          | Depth          | Degrees Off     |         |      |  |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount          | Set at K.B.         | Wt./Ft.          | New/Used     | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. | Size                | Amount               | Set at K.B.     | Wt./Ft.         | New/Used     | Grade            | Cubic Feet of Mix (Dry Volume)    | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. | Size        | Amount           | Set at K.B.  | Wt./Ft.              | New/Used       | Grade           |         |      |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 | Interval                       | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.            | Type                 | Interval        | Shot/Ft.        | Type         | Interval         | Shot/Ft.                          | Type                       | Interval                                | Shot/Ft.               | Type        | Interval         | Shot/Ft.     | Type                 | Interval       | Shot/Ft.        | Type    |      |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press.        | Feed Rate Bbls./Min. | Interval        | Amount Gals.    | Kind         | Breakdown Press. | Final Press.                      | Feed Rate Bbls./Min.       | Interval                                | Amount Gals.           | Kind        | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval       | Amount Gals.    | Kind    |      |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                | No.                            | Interval Tested            | to                                      | min.                   | Shut in             | mins.                | No.             | Interval Tested | to           | min.             | Shut in                           | mins.                      | No.                                     | Interval Tested        | to          | min.             | Shut in      | mins.                | No.            | Interval Tested | to      |      |  |  |  |  |  |  |  |  |
|                            | Valve Open                        |                 |                     |                  |              |                      | Valve Open                     |                            |                                         |                        |                     |                      | Valve Open      |                 |              |                  |                                   |                            | Valve Open                              |                        |             |                  |              |                      | Valve Open     |                 |         |      |  |  |  |  |  |  |  |  |
|                            | Gas to Surface                    | min.            | @                   |                  |              | Mcf/d Max.           | Gas to Surface                 | min.                       | @                                       |                        |                     | Mcf/d Max.           | Gas to Surface  | min.            | @            |                  |                                   | Mcf/d Max.                 | Gas to Surface                          | min.                   | @           |                  |              | Mcf/d Max.           | Gas to Surface | min.            | @       |      |  |  |  |  |  |  |  |  |
|                            | Oil to Surface                    | min.            | @                   |                  |              | Bbl/d Max.           | Oil to Surface                 | min.                       | @                                       |                        |                     | Bbl/d Max.           | Oil to Surface  | min.            | @            |                  |                                   | Bbl/d Max.                 | Oil to Surface                          | min.                   | @           |                  |              | Bbl/d Max.           | Oil to Surface | min.            | @       |      |  |  |  |  |  |  |  |  |
|                            | Recovery:                         | ft.             |                     |                  |              |                      | Recovery:                      | ft.                        |                                         |                        |                     |                      | Recovery:       | ft.             |              |                  |                                   |                            | Recovery:                               | ft.                    |             |                  |              |                      | Recovery:      | ft.             |         |      |  |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |                                | ft.                        |                                         |                        |                     |                      |                 | ft.             |              |                  |                                   |                            |                                         | ft.                    |             |                  |              |                      |                | ft.             |         |      |  |  |  |  |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |                                | ft.                        |                                         |                        |                     |                      |                 | ft.             |              |                  |                                   |                            |                                         | ft.                    |             |                  |              |                      |                | ft.             |         |      |  |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time                           | No.                        | Interval                                | Cement                 | Additive            | Plug Down            | Felt At         | Time            | No.          | Interval         | Cement                            | Additive                   | Plug Down                               | Felt At                | Time        | No.              | Interval     | Cement               | Additive       | Plug Down       | Felt At | Time |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |                                | Type                       | Int.                                    |                        |                     |                      |                 |                 | Type         | Int.             |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 12:00 - 6:15                      | DRILLING        |                     |                  |              |                      |                                | 8:00 - 8:30                | DRILLING                                |                        |                     |                      |                 |                 | 4:00 - 12:00 | DRILLING         |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 6:15 - 7:45                       | TRIPPING        |                     |                  |              |                      |                                | 8:30 - 9:00                | GREASING                                |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            | 7:45 - 8:00                       | DRILLING        |                     |                  |              |                      |                                | 9:00 - 4:00                | DRILLING                                |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| REMARKS                    |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
|                            |                                   |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      |                 |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      |                |                 |         |      |  |  |  |  |  |  |  |  |
| Operator                   | Driller PETERS                    |                 |                     |                  |              |                      |                                |                            |                                         |                        |                     |                      | Operator HUMBER |                 |              |                  |                                   |                            |                                         |                        |             |                  |              |                      | Driller PETERS |                 |         |      |  |  |  |  |  |  |  |  |

# DAILY REPORT

DATE SEPT 12, 1966

**BOARD COPY**  
(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BASIN CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR             |                 |                     |                  |              |                      |             |          | SECOND TOUR           |                 |                     |                  |              |                                |             |          | THIRD TOUR                 |                                         |                     |                  |              |                        |             |            |
|----------------------------|------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------|-----------------|---------------------|------------------|--------------|--------------------------------|-------------|----------|----------------------------|-----------------------------------------|---------------------|------------------|--------------|------------------------|-------------|------------|
|                            | 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |          | 8:00 a.m. — 4:00 p.m. |                 |                     |                  |              |                                |             |          | 4:00 p.m. — 12:00 p.m.     |                                         |                     |                  |              |                        |             |            |
|                            | Start of Tour          |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour         |                 | Hole Made This Tour |                  | End of Tour  |                                |             |          | Start of Tour              |                                         | Hole Made This Tour |                  | End of Tour  |                        |             |            |
| DEPTH                      | 1045                   |                 | 18                  |                  | 1063         |                      |             |          | 1063                  |                 | 15                  |                  | 1078         |                                |             |          | 1078                       |                                         | 25                  |                  | 1103         |                        |             |            |
| TIME                       | On Bottom              |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom             |                 | Off Bottom          |                  | On Bottom    |                                | Off Bottom  |          | On Bottom                  |                                         | Off Bottom          |                  | On Bottom    |                        | Off Bottom  |            |
| BIT RECORD                 | Size                   | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                  | No.             | Type                | Condition        | Wt.          | R.P.M.                         | Ft. Drilled | Bit-hrs. | Size                       | No.                                     | Type                | Condition        | Wt.          | R.P.M.                 | Ft. Drilled | Bit-hrs.   |
|                            | 4 3/4                  | 11              | K1                  |                  |              |                      | 33          | 13 1/2   | 4 3/4                 | 11              | K1                  |                  |              |                                | 41          | 17 1/2   | 4 3/4                      | 12                                      | K1                  |                  |              |                        | 32          | 9 1/2      |
| DRILL PIPE                 | Size                   | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                  | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.                      |             |          | Size                       | Stands                                  | Singles             | Drill Collar     | Kelly        | Core Bbl.              |             |            |
| MUD RECORD                 | Time                   | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                  | Weight          | Vis.                | Gel Str.         | pH           | Am't Added                     | Kind        |          | Time                       | Weight                                  | Vis.                | Gel Str.         | pH           | Am't Added             | Kind        |            |
|                            | 4:50                   | 11              | 43                  |                  |              |                      |             |          | 10:00                 | 11              | 43                  | 9.6              | 6.8          |                                |             |          | 6:00                       | 11                                      | 43                  |                  |              |                        | 200-EL 400  | MUD WEIGHT |
|                            | 7:00                   | 11              | 43                  |                  |              |                      |             |          | 2:00                  | 11              | 43                  |                  |              |                                |             |          | 11:00                      | 11                                      | 45                  | 9.2              | 8            | 10+10 QX 4             | CAUSTIC     |            |
| CORING                     | Time                   | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          | Time                  | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                                |             |          | Time                       | Interval                                | Ft. Cut             | Ft. Rec'd        | Type         |                        |             |            |
| SURVEY                     | Depth                  | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          | Depth                 | Degrees Off     | Depth               | Degrees Off      |              |                                |             |          | Depth                      | Degrees Off                             | Depth               | Degrees Off      |              |                        |             |            |
| CASING & CEMENTING DETAILS | Size                   | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |          | New/Used              | Grade           |                     |                  |              | Cubic Feet of Mix (Dry Volume) |             |          | Type of Cementing Material | ADDITIVES Including Ratio or Percentage |                     |                  |              | Slurry Weight Lb./Gal. |             |            |
| PERFORATING                | Interval               | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval              | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                           |             |          | Interval                   | Shot/Ft.                                | Type                | Interval         | Shot/Ft.     | Type                   |             |            |
| ACIDIZING or MACING        | Interval               | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval              | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.           |             |          | Interval                   | Amount Gals.                            | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.   |             |            |
| FORMATION TESTS            | No.                    | Interval Tested | to                  |                  |              |                      |             |          | No.                   | Interval Tested | to                  |                  |              |                                |             |          | No.                        | Interval Tested                         | to                  |                  |              |                        |             |            |
|                            | Valve Open             | min.            | Shut in             | mins.            |              |                      |             |          | Valve Open            | min.            | Shut in             | mins.            |              |                                |             |          | Valve Open                 | min.                                    | Shut in             | mins.            |              |                        |             |            |
|                            | Gas to Surface         | min.            | @                   |                  | Mcf/d Max.   |                      |             |          | Gas to Surface        | min.            | @                   |                  |              | Mcf/d Max.                     |             |          | Gas to Surface             | min.                                    | @                   |                  |              | Mcf/d Max.             |             |            |
|                            | Oil to Surface         | min.            | @                   |                  | Bbl/d Max.   |                      |             |          | Oil to Surface        | min.            | @                   |                  |              | Bbl/d Max.                     |             |          | Oil to Surface             | min.                                    | @                   |                  |              | Bbl/d Max.             |             |            |
|                            | Recovery:              | ft.             |                     |                  |              |                      |             |          | Recovery:             | ft.             |                     |                  |              |                                |             |          | Recovery:                  | ft.                                     |                     |                  |              |                        |             |            |
|                            |                        | ft.             |                     |                  |              |                      |             |          |                       | ft.             |                     |                  |              |                                |             |          |                            | ft.                                     |                     |                  |              |                        |             |            |
|                            |                        | ft.             |                     |                  |              |                      |             |          |                       | ft.             |                     |                  |              |                                |             |          |                            | ft.                                     |                     |                  |              |                        |             |            |
| ABANDONMENT PLUGS          | No.                    | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                   | Interval        | Cement              | Additive         | Plug Down    | Felt At                        | Time        |          | No.                        | Interval                                | Cement              | Additive         | Plug Down    | Felt At                | Time        |            |
| LOGS                       | Type                   | Int.            |                     |                  |              |                      |             |          | Type                  | Int.            |                     |                  |              |                                |             |          | Type                       | Int.                                    |                     |                  |              |                        |             |            |
|                            | 12:00 - 5:00           | DRILLING        |                     |                  |              |                      |             |          | 8:00 - 8:45           | DRILLING        |                     |                  |              |                                |             |          | 4:00 - 6:45                | DRILLING                                |                     |                  |              |                        |             |            |
|                            |                        |                 |                     |                  |              |                      |             |          | 8:45 - 9:30           | GREASING        |                     |                  |              |                                |             |          | 6:45 - 7:15                | MIXING MUD                              |                     |                  |              |                        |             |            |
|                            |                        |                 |                     |                  |              |                      |             |          | 9:30 - 12:45          | DRILLING        |                     |                  |              |                                |             |          | 7:15 - 12:00               | DRILLING                                |                     |                  |              |                        |             |            |
|                            |                        |                 |                     |                  |              |                      |             |          | 12:45 - 2:10          | TRIPPING        |                     |                  |              |                                |             |          |                            |                                         |                     |                  |              |                        |             |            |
|                            |                        |                 |                     |                  |              |                      |             |          | 2:10 - 4:00           | DRILLING        |                     |                  |              |                                |             |          |                            |                                         |                     |                  |              |                        |             |            |
| REMARKS                    |                        |                 |                     |                  |              |                      |             |          |                       |                 |                     |                  |              |                                |             |          |                            |                                         |                     |                  |              |                        |             |            |
|                            |                        |                 |                     |                  |              |                      |             |          |                       |                 |                     |                  |              |                                |             |          |                            |                                         |                     |                  |              |                        |             |            |

# DAILY REPORT

DATE SEPT. 14 1960

**BOARD COPY**

(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR D. J. AND AN. DRUG. RIG No. 5 Licensed Well Name & Location GLACIER BAY SEA CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR                           | 12:00 p.m. — 8:00 a.m. | SECOND TOUR          | 8:00 a.m. — 4:00 p.m. | THIRD TOUR           | 4:00 p.m. — 12:00 p.m. |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|----------------------------|--------------------------------------|------------------------|----------------------|-----------------------|----------------------|------------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|--------------|----------------------|--------------------------------|-----------------|---------------|------------------|--------------|----------------------|-----------|-----------------|---------------|--------|-------------|----------|----|
| DEPTH                      | Start of Tour                        |                        | Hole Made This Tour  | End of Tour           |                      | Start of Tour          |                                | Hole Made This Tour        | End of Tour                             |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| TIME                       | On Bottom                            |                        | Off Bottom           | On Bottom             |                      | Off Bottom             | On Bottom                      |                            | Off Bottom                              | On Bottom              |              | Off Bottom           |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| BIT RECORD                 | Size                                 | No.                    | Type                 | Condition             | Wt.                  | R.P.M.                 | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type         | Condition            | Wt.                            | R.P.M.          | Ft. Drilled   | Bit-hrs.         | Size         | No.                  | Type      | Condition       | Wt.           | R.P.M. | Ft. Drilled | Bit-hrs. |    |
|                            | 7 3/4                                | 10                     | KI                   | NEW                   |                      |                        | 23                             | 6 1/2                      | 4 3/4                                   | 10                     | KI           |                      |                                |                 |               | 45               | 14           | 4 3/4                | 10        | KI              |               |        |             |          | 48 |
| DRILL PIPE                 | Size                                 | Stands                 | Singles              | Drill Collar          | Kelly                | Core Bbl.              | Size                           | Stands                     | Singles                                 | Drill Collar           | Kelly        | Core Bbl.            | Size                           | Stands          | Singles       | Drill Collar     | Kelly        | Core Bbl.            |           |                 |               |        |             |          |    |
|                            | 2 3/4                                | 49                     | 49                   | 1-3 1/4               |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| MUD RECORD                 | Time                                 | Weight                 | Vis.                 | Gel Str.              | pH                   | Amt Added              | Kind                           | Time                       | Weight                                  | Vis.                   | Gel Str.     | pH                   | Amt Added                      | Kind            | Time          | Weight           | Vis.         | Gel Str.             | pH        | Amt Added       | Kind          |        |             |          |    |
|                            | 10:00<br>7:30                        | 11.1<br>11.1           | 47<br>44             |                       |                      | 200#                   | BARIITE                        | 10:00<br>3:00              | 11.1<br>11.2                            | 44<br>48               |              |                      |                                |                 | 4:00<br>12:00 | 11.2<br>11.1     | 47<br>44     |                      |           | 20 lbm<br>8 lbs | gx<br>Caustic |        |             |          |    |
| CORING                     | Time                                 | Interval               | Ft. Cut              | Ft. Rec'd             | Type                 | Time                   | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time         | Interval             | Ft. Cut                        | Ft. Rec'd       | Type          |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| SURVEY                     | Depth                                | Degrees Off            | Depth                | Degrees Off           | Depth                | Degrees Off            | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth        | Degrees Off          | Depth                          | Degrees Off     |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| CASING & CEMENTING DETAILS | Size                                 | Amount                 | Set at K.B.          | Wt./Ft.               | New/Used             | Grade                  | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| PERFORATING                | Interval                             | Shot/Ft.               | Type                 | Interval              | Shot/Ft.             | Type                   | Interval                       | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.     | Type                 |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| ACIDIZING OR FRACING       | Interval                             | Amount Gals.           | Kind                 | Breakdown Press.      | Final Press.         | Feed Rate Bbls./Min.   | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press. | Feed Rate Bbls./Min. | Interval                       | Amount Gals.    | Kind          | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |           |                 |               |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| FORMATION TESTS            | No.                                  | Interval Tested        | to                   | min.                  | Shut in              | mins.                  | No.                            | Interval Tested            | to                                      | min.                   | Shut in      | mins.                | No.                            | Interval Tested | to            | min.             | Shut in      | mins.                |           |                 |               |        |             |          |    |
|                            | Valve Open                           |                        |                      |                       |                      |                        | Valve Open                     |                            |                                         |                        |              |                      | Valve Open                     |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            | Gas to Surface                       | min.                   | @                    | Mcf/d Max.            |                      |                        | Gas to Surface                 | min.                       | @                                       | Mcf/d Max.             |              |                      | Gas to Surface                 | min.            | @             | Mcf/d Max.       |              |                      |           |                 |               |        |             |          |    |
|                            | Oil to Surface                       | min.                   | @                    | Bbl/d Max.            |                      |                        | Oil to Surface                 | min.                       | @                                       | Bbl/d Max.             |              |                      | Oil to Surface                 | min.            | @             | Bbl/d Max.       |              |                      |           |                 |               |        |             |          |    |
|                            | Recovery:                            | ft.                    |                      |                       |                      |                        | Recovery:                      | ft.                        |                                         |                        |              |                      | Recovery:                      | ft.             |               |                  |              |                      |           |                 |               |        |             |          |    |
| ABANDONMENT PLUGS          | No.                                  | Interval               | Cement               | Additive              | Plug Down            | Felt At                | Time                           | No.                        | Interval                                | Cement                 | Additive     | Plug Down            | Felt At                        | Time            | No.           | Interval         | Cement       | Additive             | Plug Down | Felt At         | Time          |        |             |          |    |
|                            |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| LOGS                       | Type                                 | Int.                   | Type                 | Int.                  | Type                 | Int.                   | Type                           | Int.                       | Type                                    | Int.                   | Type         | Int.                 |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            | 12:00 - 1:30 TRIPPING FOR BIT CHANGE |                        | 8:00 - 8:30 DRILLING |                       | 4:00 - 5:00 DRILLING |                        | 5:00 - 6:20 TRIPPING           |                            | 6:20 - 12:00 DRILLING                   |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
| REMARKS                    |                                      |                        |                      |                       |                      |                        |                                |                            |                                         |                        |              |                      |                                |                 |               |                  |              |                      |           |                 |               |        |             |          |    |
|                            | Operator _____ Driller PETERS        |                        |                      |                       |                      |                        | Operator _____ Driller HUMBLE  |                            |                                         |                        |              |                      | Operator HUMBLE Driller PETERS |                 |               |                  |              |                      |           |                 |               |        |             |          |    |



COMPANY J.C. Sprule and Associates

## DAILY REPORT

DATE Sept 10, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR Big Indian Drilling RIG No. 5 Licensed Well Name & Location GLACIER BAYSEL CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

| FIRST TOUR 12:00 p.m. — 8:00 a.m. |  |                       |                 |             |                  |               |                      |                                |                            | SECOND TOUR 8:00 a.m. — 4:00 p.m.       |                        |               |                      |                     |                 |             |                  |              |                      | THIRD TOUR 4:00 p.m. — 12:00 p.m. |         |         |                |  |  |  |  |  |  |
|-----------------------------------|--|-----------------------|-----------------|-------------|------------------|---------------|----------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|---------------|----------------------|---------------------|-----------------|-------------|------------------|--------------|----------------------|-----------------------------------|---------|---------|----------------|--|--|--|--|--|--|
| Start of Tour                     |  | Hole Made This Tour   |                 | End of Tour |                  | Start of Tour |                      | Hole Made This Tour            |                            | End of Tour                             |                        | Start of Tour |                      | Hole Made This Tour |                 | End of Tour |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| DEPTH                             |  | 947                   |                 | 9           |                  | 956           |                      | 956                            |                            | 10                                      |                        | 966           |                      | 966                 |                 | 16          |                  | 982          |                      |                                   |         |         |                |  |  |  |  |  |  |
| TIME                              |  | On Bottom             |                 | Off Bottom  |                  | On Bottom     |                      | Off Bottom                     |                            | On Bottom                               |                        | Off Bottom    |                      | On Bottom           |                 | Off Bottom  |                  | On Bottom    |                      |                                   |         |         |                |  |  |  |  |  |  |
| BIT RECORD                        |  | Size                  | No.             | Type        | Condition        | Wt.           | R.P.M.               | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type          | Condition            | Wt.                 | R.P.M.          | Ft. Drilled | Bit-hrs.         | Size         | No.                  |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 4 3/4                 | 9               | 3 cone      | REAMING          |               |                      | Reaming                        | 4                          | 4 3/4                                   | 9                      | 3 cone        | REAMING              |                     |                 |             | Reaming          | 5            | 4 3/4                | 9                                 |         |         |                |  |  |  |  |  |  |
| DRILL PIPE                        |  | Size                  | Stands          | Singles     | Drill Collar     | Kelly         | Core Bbl.            | Size                           | Stands                     | Singles                                 | Drill Collar           | Kelly         | Core Bbl.            | Size                | Stands          | Singles     | Drill Collar     | Kelly        | Core Bbl.            |                                   |         |         |                |  |  |  |  |  |  |
| MUD RECORD                        |  | Time                  | Weight          | Vis.        | Gel Str.         | pH            | Am't Added           | Kind                           | Time                       | Weight                                  | Vis.                   | Gel Str.      | pH                   | Am't Added          | Kind            | Time        | Weight           | Vis.         | Gel Str.             |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 1:30                  | 11.4            | 45          |                  |               | 200 GEL              |                                | 11:15                      | 11.1                                    | 39                     |               |                      |                     |                 | 7:30        | 11               | 39           |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 7:00                  | 11.2            | 46          |                  |               | 200                  | DARITE                         | 4:30                       | 11.0                                    | 40                     |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| CORING                            |  | Time                  | Interval        | Ft. Cut     | Ft. Rec'd        | Type          | Time                 | Interval                       | Ft. Cut                    | Ft. Rec'd                               | Type                   | Time          | Interval             | Ft. Cut             | Ft. Rec'd       | Type        | Time             | Interval     | Ft. Cut              |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 3:40                  | 947-956         | 9           | 9                |               | 2:30                 | 956-966                        | 10                         | 10                                      |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| SURVEY                            |  | Depth                 | Degrees Off     | Depth       | Degrees Off      | Depth         | Degrees Off          | Depth                          | Degrees Off                | Depth                                   | Degrees Off            | Depth         | Degrees Off          | Depth               | Degrees Off     | Depth       | Degrees Off      | Depth        | Degrees Off          |                                   |         |         |                |  |  |  |  |  |  |
| CEASING & CEMENTING DETAILS       |  | Size                  | Amount          | Set at K.B. | Wt./Ft.          | New/Used      | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| PERFORATING                       |  | Interval              | Shot/Ft.        | Type        | Interval         | Shot/Ft.      | Type                 | Interval                       | Shot/Ft.                   | Type                                    | Interval               | Shot/Ft.      | Type                 | Interval            | Shot/Ft.        | Type        | Interval         | Shot/Ft.     | Type                 |                                   |         |         |                |  |  |  |  |  |  |
| ACIDIZING or FRACING              |  | Interval              | Amount Gals.    | Kind        | Breakdown Press. | Final Press.  | Feed Rate Bbls./Min. | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.       | Final Press.  | Feed Rate Bbls./Min. | Interval            | Amount Gals.    | Kind        | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                                   |         |         |                |  |  |  |  |  |  |
| FORMATION TESTS                   |  | No.                   | Interval Tested | to          | min.             | Shut in       | mins.                | No.                            | Interval Tested            | to                                      | min.                   | Shut in       | mins.                | No.                 | Interval Tested | to          | min.             | Shut in      | mins.                |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | Valve Open            |                 |             |                  |               |                      | Valve Open                     |                            |                                         |                        |               |                      | Valve Open          |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | Gas to Surface        | min.            | @           |                  | Mcf/d Max.    |                      | Gas to Surface                 | min.                       | @                                       |                        | Mcf/d Max.    |                      | Gas to Surface      | min.            | @           |                  | Mcf/d Max.   |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | Oil to Surface        | min.            | @           |                  | Bbl/d Max.    |                      | Oil to Surface                 | min.                       | @                                       |                        | Bbl/d Max.    |                      | Oil to Surface      | min.            | @           |                  | Bbl/d Max.   |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | Recovery:             | ft.             |             |                  |               |                      | Recovery:                      | ft.                        |                                         |                        |               |                      | Recovery:           | ft.             |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  |                       | ft.             |             |                  |               |                      |                                | ft.                        |                                         |                        |               |                      |                     | ft.             |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  |                       | ft.             |             |                  |               |                      |                                | ft.                        |                                         |                        |               |                      |                     | ft.             |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| ABANDONMENT PLUGS                 |  | No.                   | Interval        | Cement      | Additive         | Plug Down     | Felt At              | Time                           | No.                        | Interval                                | Cement                 | Additive      | Plug Down            | Felt At             | Time            | No.         | Interval         | Cement       | Additive             |                                   |         |         |                |  |  |  |  |  |  |
| LOGS                              |  | Type                  | Int.            |             |                  |               |                      |                                |                            | Type                                    | Int.                   |               |                      |                     |                 |             |                  | Type         | Int.                 |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 12:00-12:30           | MIX MUD         |             |                  |               |                      |                                |                            | 8:00-8:30                               | REAMING                | 9:30-9:45     | GREASING             |                     |                 |             |                  |              |                      | 4:00-5:00                         | REAMING |         |                |  |  |  |  |  |  |
|                                   |  | 12:30-3:45            | CORING          |             |                  |               |                      |                                |                            | 9:45-10:00                              | PULLDOWN               | 10:00-10:30   | MADE UP              |                     |                 |             |                  |              |                      | 5:00-5:30                         | MIX MUD | 200 GEL | 400 MUD WEIGHT |  |  |  |  |  |  |
|                                   |  | 3:45-5:15             | PULLED CORE     |             |                  |               |                      |                                |                            | 10:30-11:15                             | RUN IN                 |               |                      |                     |                 |             |                  | 5:30-11:40   | DRILLING             |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 5:15-6:30             | RUN IN HOLE     |             |                  |               |                      |                                |                            | 11:15-1:45                              | CORING                 | 956-966       | RECOVERY 10'         |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  | 6:30-8:00             | REAMING         |             |                  |               |                      |                                |                            | 1:45-3:30                               | TRIPPING               |               |                      |                     |                 |             |                  | 11:40-12:00  | TRIPPING             |                                   |         |         |                |  |  |  |  |  |  |
|                                   |  |                       |                 |             |                  |               |                      |                                |                            | 3:30-4:00                               | REAMING                |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| REMARKS                           |  |                       |                 |             |                  |               |                      |                                |                            |                                         |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| Operator                          |  | Driller <u>PETERS</u> |                 |             |                  |               |                      |                                |                            |                                         |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| Operator                          |  | Driller <u>HUMBLE</u> |                 |             |                  |               |                      |                                |                            |                                         |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| Operator                          |  | Driller <u>HUMBLE</u> |                 |             |                  |               |                      |                                |                            |                                         |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |
| Driller                           |  | Driller <u>PETERS</u> |                 |             |                  |               |                      |                                |                            |                                         |                        |               |                      |                     |                 |             |                  |              |                      |                                   |         |         |                |  |  |  |  |  |  |



## DAILY REPORT

BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)COMPANY J.C. SPROLE + ASSOCIATESDATE SEPT. 9, 1960CONTRACTOR BIG INDIAN DRILLING RIG No. 5 Licensed Well Name & Location GLACIER BAYSEL CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                                        |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                                    |                       |                  |              |                      |                |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                                             |                     |                       |              |                      |             |          |  |  |
|----------------------------|-----------------------------------|----------------------------------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|------------------------------------|-----------------------|------------------|--------------|----------------------|----------------|----------|-----------------------------------|---------------------------------------------|---------------------|-----------------------|--------------|----------------------|-------------|----------|--|--|
|                            | Start of Tour                     |                                        | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                                    | Hole Made This Tour   |                  | End of Tour  |                      |                |          | Start of Tour                     |                                             | Hole Made This Tour |                       | End of Tour  |                      |             |          |  |  |
| DEPTH                      | 939                               |                                        | 7                   |                  | 946          |                      |             |          | 946                               |                                    |                       |                  | 946          |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| TIME                       | On Bottom                         |                                        | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                                    | Off Bottom            |                  | On Bottom    |                      | Off Bottom     |          | On Bottom                         |                                             | Off Bottom          |                       | On Bottom    |                      | Off Bottom  |          |  |  |
| BIT RECORD                 | Size                              | No.                                    | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                                | Type                  | Condition        | Wt.          | R.P.M.               | Ft. Drilled    | Bit-hrs. | Size                              | No.                                         | Type                | Condition             | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. |  |  |
|                            | 4 3/4                             | 9                                      | 3 cone              | NEW              |              |                      | 7           | 2 1/2    |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| DRILL PIPE                 | Size                              | Stands                                 | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands                             | Singles               | Drill Collar     | Kelly        | Core Bbl.            |                |          | Size                              | Stands                                      | Singles             | Drill Collar          | Kelly        | Core Bbl.            |             |          |  |  |
| MUD RECORD                 | Time                              | Weight                                 | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                              | Weight                             | Vis.                  | Gel Str.         | pH           | Am't Added           | Kind           |          | Time                              | Weight                                      | Vis.                | Gel Str.              | pH           | Am't Added           | Kind        |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          | 3:30                              | 12                                 | 43                    |                  |              | 7700                 | WEIGHT AND GEL |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| CORING                     | Time                              | Interval                               |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     | Time                              | Interval                           |                       | Ft. Cut          |              | Ft. Rec'd            |                | Type     | Time                              | Interval                                    |                     | Ft. Cut               |              | Ft. Rec'd            |             | Type     |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| SURVEY                     | Depth                             | Degrees Off                            |                     | Depth            | Degrees Off  |                      |             |          | Depth                             | Degrees Off                        |                       | Depth            | Degrees Off  |                      |                |          | Depth                             | Degrees Off                                 |                     | Depth                 | Degrees Off  |                      |             |          |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount                                 |                     | Set at K.B.      |              | Wt./Ft.              |             |          | Size                              | Amount                             |                       | Set at K.B.      |              | Wt./Ft.              |                |          | Size                              | Amount                                      |                     | Set at K.B.           |              | Wt./Ft.              |             |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| PERFORATING                | Interval                          | Shot/Ft.                               | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.                           | Type                  | Interval         | Shot/Ft.     | Type                 |                |          | Interval                          | Shot/Ft.                                    | Type                | Interval              | Shot/Ft.     | Type                 |             |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.                           | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.                       | Kind                  | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                |          | Interval                          | Amount Gals.                                | Kind                | Breakdown Press.      | Final Press. | Feed Rate Bbls./Min. |             |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| FORMATION TESTS            | No.                               | Interval Tested                        |                     | to               |              |                      |             |          | No.                               | Interval Tested                    |                       | to               |              |                      |                |          | No.                               | Interval Tested                             |                     | to                    |              |                      |             |          |  |  |
|                            | Valve Open                        | min.                                   |                     | Shut in          |              | mins.                |             |          | Valve Open                        | min.                               |                       | Shut in          |              | mins.                |                |          | Valve Open                        | min.                                        |                     | Shut in               |              | mins.                |             |          |  |  |
|                            | Gas to Surface                    | min.                                   |                     | @                |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.                               |                       | @                |              | Mcf/d Max.           |                |          | Gas to Surface                    | min.                                        |                     | @                     |              | Mcf/d Max.           |             |          |  |  |
|                            | Oil to Surface                    | min.                                   |                     | @                |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.                               |                       | @                |              | Bbl/d Max.           |                |          | Oil to Surface                    | min.                                        |                     | @                     |              | Bbl/d Max.           |             |          |  |  |
|                            | Recovery:                         | ft.                                    |                     |                  |              |                      |             |          | Recovery:                         | ft.                                |                       |                  |              |                      |                |          | Recovery:                         | ft.                                         |                     |                       |              |                      |             |          |  |  |
|                            |                                   | ft.                                    |                     |                  |              |                      |             |          |                                   | ft.                                |                       |                  |              |                      |                |          |                                   | ft.                                         |                     |                       |              |                      |             |          |  |  |
|                            |                                   | ft.                                    |                     |                  |              |                      |             |          |                                   | ft.                                |                       |                  |              |                      |                |          |                                   | ft.                                         |                     |                       |              |                      |             |          |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval                               | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval                           | Cement                | Additive         | Plug Down    | Felt At              | Time           |          | No.                               | Interval                                    | Cement              | Additive              | Plug Down    | Felt At              | Time        |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   |                                             |                     |                       |              |                      |             |          |  |  |
| LOGS                       | Type                              | Int.                                   |                     |                  |              |                      |             |          | Type                              | Int.                               |                       |                  |              |                      |                |          | Type                              | Int.                                        |                     |                       |              |                      |             |          |  |  |
|                            |                                   | 12:00 - 1:00 TRIPPED OUT TO CHANGE BIT |                     |                  |              |                      |             |          |                                   | 8:00 - 4:00 MIX MUD WEIGHT AND GEL |                       |                  |              |                      |                |          |                                   | 4:00 - 5:00 PULLED OUT OF HOLE              |                     |                       |              |                      |             |          |  |  |
|                            |                                   | 1:00 - 4:15 REPAIR ROTARY TABLE        |                     |                  |              |                      |             |          |                                   | TO KILL WELL.                      |                       |                  |              |                      |                |          |                                   | 5:00 - 6:00 MADE UP PACKER                  |                     |                       |              |                      |             |          |  |  |
|                            |                                   | 4:15 - 5:15 RUN IN HOLE                |                     |                  |              |                      |             |          |                                   | 7000 MUD WEIGHT MAGGOCOR           |                       |                  |              |                      |                |          |                                   | 6:00 - 7:30 RUN IN.                         |                     |                       |              |                      |             |          |  |  |
|                            |                                   | 5:15 - 7:45 DRILLING                   |                     |                  |              |                      |             |          |                                   | 700 GEL                            |                       |                  |              |                      |                |          |                                   | 7:30 - 8:30 TESTING WELL INTERVAL           |                     |                       |              |                      |             |          |  |  |
|                            |                                   | 7:45 WELL BLOWING GAS. SHUT IN         |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   | 939 - 946                                   |                     |                       |              |                      |             |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   | 8:50 - 10:30 PULL PACKER                    |                     |                       |              |                      |             |          |  |  |
|                            |                                   |                                        |                     |                  |              |                      |             |          |                                   |                                    |                       |                  |              |                      |                |          |                                   | 10:30 - 12:00 RUN IN HOLE & PREPARE TO CORE |                     |                       |              |                      |             |          |  |  |
|                            | Operator                          | Driller <u>PETERS</u>                  |                     |                  |              |                      |             |          |                                   | Operator                           | Driller <u>HUMBKE</u> |                  |              |                      |                |          |                                   |                                             | Operator            | Driller <u>HUMBKE</u> |              |                      |             |          |  |  |

COMPANY J. C. SPRADUE & ASSOCIATES

## DAILY REPORT

DATE SEPT. 8, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR R. B. INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BASSE C. L. MAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                       |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                                             |                     |                  |              |                      |             |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                      |                     |                  |              |                      |             |          |
|----------------------------|-----------------------------------|-----------------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|---------------------------------------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|----------------------|---------------------|------------------|--------------|----------------------|-------------|----------|
|                            | Start of Tour                     |                       | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                                             | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                      | Hole Made This Tour |                  | End of Tour  |                      |             |          |
| DEPTH                      | 824                               |                       | 55                  |                  | 879          |                      |             |          | 879                               |                                             | 29                  |                  | 908          |                      |             |          | 908                               |                      | 31                  |                  | 939          |                      |             |          |
| TIME                       | On Bottom                         |                       | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                                             | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                      | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          |
| BIT RECORD                 | Size                              | No.                   | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                                         | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.                  | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. |
|                            | 4 3/4                             | 7                     | 3 Cone              |                  |              |                      | 127         | 17 1/2   | 4 3/4                             | 7                                           | 3 Cone              |                  |              |                      | 133         | 18 3/4   | 4 3/4                             | 8                    | 3 Cone              |                  |              |                      | 54          | 12       |
| DRILL PIPE                 | Size                              | Stands                | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands                                      | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands               | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          |
| MUD RECORD                 | Time                              | Weight                | Vis.                | Gel Str.         | pH           | Am't Added           |             | Kind     | Time                              | Weight                                      | Vis.                | Gel Str.         | pH           | Am't Added           |             | Kind     | Time                              | Weight               | Vis.                | Gel Str.         | pH           | Am't Added           |             | Kind     |
|                            | 6:00                              | 9.85                  | 46                  | 8.4              | 8            |                      |             |          | 3:00                              | 10.0                                        | 46                  |                  |              |                      |             |          | 9:30                              | 10.00                | 46                  |                  |              | 15.0 x 5.00          |             |          |
| CORING                     | Time                              | Interval              |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     | Time                              | Interval                                    |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     | Time                              | Interval             |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| SURVEY                     | Depth                             | Degrees Off           |                     | Depth            | Degrees Off  |                      |             |          | Depth                             | Degrees Off                                 |                     | Depth            | Degrees Off  |                      |             |          | Depth                             | Degrees Off          |                     | Depth            | Degrees Off  |                      |             |          |
| CASING & CEMENTING DETAILS | Size                              | Amount                |                     | Set at K.B.      |              | Wt./Ft.              |             |          | Size                              | Amount                                      |                     | Set at K.B.      |              | Wt./Ft.              |             |          | Size                              | Amount               |                     | Set at K.B.      |              | Wt./Ft.              |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| PERFORATING                | Interval                          | Shot/Ft.              | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.                                    | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.             | Type                | Interval         | Shot/Ft.     | Type                 |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.          | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.                                | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.         | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| FORMATION TESTS            | No.                               | Interval Tested       |                     | to               |              |                      |             |          | No.                               | Interval Tested                             |                     | to               |              |                      |             |          | No.                               | Interval Tested      |                     | to               |              |                      |             |          |
|                            | Valve Open                        | min.                  |                     | Shut in          |              | mins.                |             |          | Valve Open                        | min.                                        |                     | Shut in          |              | mins.                |             |          | Valve Open                        | min.                 |                     | Shut in          |              | mins.                |             |          |
|                            | Gas to Surface                    | min.                  |                     | @                |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.                                        |                     | @                |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.                 |                     | @                |              | Mcf/d Max.           |             |          |
|                            | Oil to Surface                    | min.                  |                     | @                |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.                                        |                     | @                |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.                 |                     | @                |              | Bbl/d Max.           |             |          |
|                            | Recovery:                         | ft.                   |                     |                  |              |                      |             |          | Recovery:                         | ft.                                         |                     |                  |              |                      |             |          | Recovery:                         | ft.                  |                     |                  |              |                      |             |          |
|                            |                                   | ft.                   |                     |                  |              |                      |             |          |                                   | ft.                                         |                     |                  |              |                      |             |          |                                   | ft.                  |                     |                  |              |                      |             |          |
|                            |                                   | ft.                   |                     |                  |              |                      |             |          |                                   | ft.                                         |                     |                  |              |                      |             |          |                                   | ft.                  |                     |                  |              |                      |             |          |
| ABANDONMENT PLUGS          | No.                               | Interval              | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval                                    | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval             | Cement              | Additive         | Plug Down    | Felt At              | Time        |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| LOGS                       | Type                              | Int.                  |                     |                  |              |                      |             |          | Type                              | Int.                                        |                     |                  |              |                      |             |          | Type                              | Int.                 |                     |                  |              |                      |             |          |
|                            |                                   | 12:00 - 8:00 DRILLING |                     |                  |              |                      |             |          |                                   | 8:00 - 8:23 DRILLING                        |                     |                  |              |                      |             |          |                                   | 4:00 - 7:20 DRILLING |                     |                  |              |                      |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   | 8:23 - 9:00 GREASING                        |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   | 9:00 - 9:45 DRILLING                        |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   | 9:45 - 12:00 TRIPPING AND REPLACE PUMP ROD. |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
|                            |                                   |                       |                     |                  |              |                      |             |          |                                   | 12:00 - 4:00 DRILLING                       |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| REMARKS                    |                                   |                       |                     |                  |              |                      |             |          |                                   |                                             |                     |                  |              |                      |             |          |                                   |                      |                     |                  |              |                      |             |          |
| Operator                   | Driller PETERS                    |                       |                     |                  |              |                      |             | Operator | Driller HUMBRE                    |                                             |                     |                  |              |                      |             | Operator | Driller PETER'S                   |                      |                     |                  |              |                      |             |          |

COMPANY J. C. SPRADUE & ASSOCIATES

## DAILY REPORT

DATE SEPT 7, 1960BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BASIN CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.    |                 |                     |                  |              |                      |               |                     | SECOND TOUR 8:00 a.m. — 4:00 p.m.    |                                |                     |                            |                                         |               |                        |                  | THIRD TOUR 4:00 p.m. — 12:00 p.m.           |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|----------------------------|--------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|---------------|---------------------|--------------------------------------|--------------------------------|---------------------|----------------------------|-----------------------------------------|---------------|------------------------|------------------|---------------------------------------------|----------------------|---------------------|--------------|------|------------------|---------------|----------------------|--------------|--------------------------------|---------------------|----------------------------|-----------------------------------------|----------------------|------------------------|----------|-----------|---------|------|
|                            | Start of Tour                        |                 | Hole Made This Tour |                  |              |                      | End of Tour   |                     | Start of Tour                        |                                | Hole Made This Tour |                            |                                         |               | End of Tour            |                  | Start of Tour                               |                      | Hole Made This Tour |              |      |                  | End of Tour   |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| DEPTH                      | 707                                  |                 | 27                  |                  |              |                      | 734           |                     | 734                                  |                                | 25                  |                            |                                         |               | 759                    |                  | 759                                         |                      | 65                  |              |      |                  | 824           |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| TIME                       | On Bottom                            |                 | Off Bottom          |                  |              |                      | On Bottom     |                     | Off Bottom                           |                                | On Bottom           |                            |                                         |               | Off Bottom             |                  | On Bottom                                   |                      | Off Bottom          |              |      |                  | On Bottom     |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| BIT RECORD                 | Size                                 | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled   | Bit-hrs.            | Size                                 | No.                            | Type                | Condition                  | Wt.                                     | R.P.M.        | Ft. Drilled            | Bit-hrs.         | Size                                        | No.                  | Type                | Condition    | Wt.  | R.P.M.           | Ft. Drilled   | Bit-hrs.             |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            | 4 3/4                                | 5               | 3 cone              |                  |              |                      | 40            | 10 1/4              | 4 3/4                                | 6                              | KL                  |                            |                                         |               | 44                     | 11               | 4 3/4                                       | 7                    | KL                  |              |      |                  | 72            | 9 1/2                |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            | 4 3/4                                | 6               | 3 cone              | NEW              |              |                      | 27            | 6                   | 4 3/4                                | 7                              | KL                  | NEW                        |                                         |               | 7                      | 1 1/2            |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| DRILL PIPE                 | Size                                 | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |               | Size                | Stands                               | Singles                        | Drill Collar        | Kelly                      | Core Bbl.                               |               | Size                   | Stands           | Singles                                     | Drill Collar         | Kelly               | Core Bbl.    |      | Size             | Stands        | Singles              | Drill Collar | Kelly                          | Core Bbl.           |                            |                                         |                      |                        |          |           |         |      |
| MUD RECORD                 | Time                                 | Weight          | Vis.                | Gel. Str.        | pH           | Am't Added           | Kind          | Time                | Weight                               | Vis.                           | Gel. Str.           | pH                         | Am't Added                              | Kind          | Time                   | Weight           | Vis.                                        | Gel. Str.            | pH                  | Am't Added   | Kind | Time             | Weight        | Vis.                 | Gel. Str.    | pH                             | Am't Added          | Kind                       |                                         |                      |                        |          |           |         |      |
|                            | 6:00                                 | 9.4             | 40                  | 15               | 8.5          | 150                  | GEL           | 3:00                |                                      |                                | 37                  |                            |                                         | 350           | GEL                    |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| CORING                     | Time                                 | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |               | Type                | Time                                 | Interval                       |                     | Ft. Cut                    |                                         | Ft. Rec'd     |                        | Type             | Time                                        | Interval             |                     | Ft. Cut      |      | Ft. Rec'd        |               | Type                 | Time         | Interval                       |                     | Ft. Cut                    |                                         | Ft. Rec'd            |                        | Type     |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |               |                     |                                      |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| SURVEY                     | Depth                                | Degrees Off     |                     | Depth            | Degrees Off  |                      | Depth         | Degrees Off         |                                      | Depth                          | Degrees Off         |                            | Depth                                   | Degrees Off   |                        | Depth            | Degrees Off                                 |                      | Depth               | Degrees Off  |      | Depth            | Degrees Off   |                      | Depth        | Degrees Off                    |                     | Depth                      | Degrees Off                             |                      |                        |          |           |         |      |
| CASING & CEMENTING DETAILS | Size                                 | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |               | New/Used            | Grade                                | Cubic Feet of Mix (Dry Volume) |                     | Type of Cementing Material | ADDITIVES Including Ratio or Percentage |               | Slurry Weight Lb./Gal. |                  | Size                                        | Amount               |                     | Set at K.B.  |      | Wt./Ft.          |               | New/Used             | Grade        | Cubic Feet of Mix (Dry Volume) |                     | Type of Cementing Material | ADDITIVES Including Ratio or Percentage |                      | Slurry Weight Lb./Gal. |          |           |         |      |
| PERFORATING                | Interval                             | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 | Interval      | Shot/Ft.            | Type                                 | Interval                       | Shot/Ft.            | Type                       | Interval                                | Shot/Ft.      | Type                   | Interval         | Shot/Ft.                                    | Type                 | Interval            | Shot/Ft.     | Type | Interval         | Shot/Ft.      | Type                 | Interval     | Shot/Ft.                       | Type                | Interval                   | Shot/Ft.                                | Type                 |                        |          |           |         |      |
| ACIDIZING or FRACING       | Interval                             | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. | Interval      | Amount Gals.        | Kind                                 | Breakdown Press.               | Final Press.        | Feed Rate Bbls./Min.       | Interval                                | Amount Gals.  | Kind                   | Breakdown Press. | Final Press.                                | Feed Rate Bbls./Min. | Interval            | Amount Gals. | Kind | Breakdown Press. | Final Press.  | Feed Rate Bbls./Min. | Interval     | Amount Gals.                   | Kind                | Breakdown Press.           | Final Press.                            | Feed Rate Bbls./Min. |                        |          |           |         |      |
| FORMATION TESTS            | No.                                  | Interval Tested |                     | to               |              | Valve Open min.      | Shut in mins. | Gas to Surface min. | @                                    | Mcf/d Max.                     | Oil to Surface min. | @                          | Bbl/d Max.                              | Recovery: ft. | ft.                    | ft.              | No.                                         | Interval Tested      |                     | to           |      | Valve Open min.  | Shut in mins. | Gas to Surface min.  | @            | Mcf/d Max.                     | Oil to Surface min. | @                          | Bbl/d Max.                              | Recovery: ft.        | ft.                    | ft.      |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |               |                     |                                      |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| ABANDONMENT PLUGS          | No.                                  | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time          | No.                 | Interval                             | Cement                         | Additive            | Plug Down                  | Felt At                                 | Time          | No.                    | Interval         | Cement                                      | Additive             | Plug Down           | Felt At      | Time | No.              | Interval      | Cement               | Additive     | Plug Down                      | Felt At             | Time                       | No.                                     | Interval             | Cement                 | Additive | Plug Down | Felt At | Time |
| LOGS                       | Type                                 | Int.            |                     |                  |              |                      |               |                     | Type                                 | Int.                           |                     |                            |                                         |               |                        |                  | Type                                        | Int.                 |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
| REMARKS                    | 12:00-12:30 DRILLING                 |                 |                     |                  |              |                      |               |                     | 8:00-8:30 DRILLING                   |                                |                     |                            |                                         |               |                        |                  | 4:00-12:00 DRILLING                         |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            | 12:30-200 TRIPPING FOR BIT CHANGE    |                 |                     |                  |              |                      |               |                     | 8:30-9:00 GREASING                   |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            | 200-800 DRILLING                     |                 |                     |                  |              |                      |               |                     | 9:00-1:39 DRILLING                   |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |               |                     | 1:39-2:37 TRIPPING                   |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |               |                     | 2:37-4:00 DRILLING                   |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            |                                      |                 |                     |                  |              |                      |               |                     |                                      |                                |                     |                            |                                         |               |                        |                  |                                             |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |
|                            | Operator _____ Driller <u>PETERS</u> |                 |                     |                  |              |                      |               |                     | Operator _____ Driller <u>HUMBER</u> |                                |                     |                            |                                         |               |                        |                  | Operator <u>UMBER</u> Driller <u>PETERS</u> |                      |                     |              |      |                  |               |                      |              |                                |                     |                            |                                         |                      |                        |          |           |         |      |



COMPANY J.C. SPROULE & ASSOCIATES

# DAILY REPORT

DATE SEPT. 6 1960

**BOARD COPY**  
(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR BIG LADDER DRUG

RIG No. 5

Licensed Well Name & Location. GLACIER DRYSEA CLIMATE RAMPARTS # 1

...K. B. Eley.

|                            | FIRST TOUR           | 12:00 p.m. — 8:00 a.m. | SECOND TOUR          | 8:00 a.m. — 4:00 p.m. | THIRD TOUR           | 4:00 p.m. — 12:00 p.m. |                                |                            |                                         |                         |                      |                      |            |      |
|----------------------------|----------------------|------------------------|----------------------|-----------------------|----------------------|------------------------|--------------------------------|----------------------------|-----------------------------------------|-------------------------|----------------------|----------------------|------------|------|
| DEPTH                      | Start of Tour        | Hole Made This Tour    | End of Tour          | Start of Tour         | Hole Made This Tour  | End of Tour            |                                |                            |                                         |                         |                      |                      |            |      |
|                            | 607                  | 51                     | 658                  | 658                   | 22                   | 680                    |                                |                            |                                         |                         |                      |                      |            |      |
| TIME                       | On Bottom            | Off Bottom             | On Bottom            | Off Bottom            | On Bottom            | Off Bottom             |                                |                            |                                         |                         |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| BIT RECORD                 | Size                 | No.                    | Type                 | Condition             | Wt.                  | R.P.M.                 | Ft. Drilled                    | Bit-hrs.                   |                                         |                         |                      |                      |            |      |
|                            | 4 3/4                | 4                      | TRICONE              |                       |                      |                        | 65                             | 11 1/4                     |                                         |                         |                      |                      |            |      |
| DRILL PIPE                 | Size                 | Stands                 | Singles              | Drill Collar          | Kelly                | Core Bbl.              |                                |                            |                                         |                         |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| MUD LOGS                   | Time                 | Weight                 | Vis.                 | Gel Str.              | pH                   | Am't Added             | Kind                           |                            |                                         |                         |                      |                      |            |      |
|                            | 2:00                 | 9.4                    | 37                   |                       | 10                   | 4.00                   | MAGGONEL                       |                            |                                         |                         |                      |                      |            |      |
| CORING                     | Time                 | Interval               | Ft. Cut              | Ft. Rec'd             | Type                 |                        |                                |                            |                                         |                         |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| SURVEY                     | Depth                | Degrees Off            | Depth                | Degrees Off           | Depth                | Degrees Off            | Depth                          | Degrees Off                |                                         |                         |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| CASING & CEMENTING DETAILS | Size                 | Amount                 | Set at K.B.          | Wt./Ft.               | New/Used             | Grade                  | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | Additives Including Ratio or Percentage | Slurry Weight Lbs./Gal. |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| PERFORATING                | Interval             | Shot/Ft.               | Type                 | Interval              | Shot/Ft.             | Type                   | Interval                       | Shot/Ft.                   | Type                                    | Interval                | Shot/Ft.             | Type                 |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| ACIDIZING OR FRACING       | Interval             | Amount Gals.           | Kind                 | Breakdown Press.      | Final Press.         | Feed Rate Bbls./Min.   | Interval                       | Amount Gals.               | Kind                                    | Breakdown Press.        | Final Press.         | Feed Rate Bbls./Min. |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| FORMATION TESTS            | No.                  | Interval Tested min.   | Shut in mins.        | No.                   | Interval Tested min. | Shut in mins.          | No.                            | Interval Tested min.       | Shut in mins.                           | No.                     | Interval Tested min. | Shut in mins.        |            |      |
|                            |                      |                        | @                    | Mcf/d Max.            |                      |                        | @                              | Mcf/d Max.                 |                                         |                         |                      | @                    | Mcf/d Max. |      |
| ABANDONMENT PLUGS          | No.                  | Interval               | Cement               | Additive              | Plug Down            | Felt At                | Time                           | No.                        | Interval                                | Cement                  | Additive             | Plug Down            | Felt At    | Time |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
| LOGS                       | Type                 | Int.                   | Type                 | Int.                  | Type                 | Int.                   | Type                           | Int.                       | Type                                    | Int.                    | Type                 | Int.                 |            |      |
|                            | 32.00 - 500 DRILLING |                        | 8:00 - 8:30 DRILLING |                       | 4:00 - 4:20 DRILLING |                        | 8:00 - 8:30 DRILLING           |                            | 4:00 - 4:20 DRILLING                    |                         | 8:00 - 8:30 DRILLING |                      |            |      |
| REMARKS                    |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
|                            |                      |                        |                      |                       |                      |                        |                                |                            |                                         |                         |                      |                      |            |      |
|                            | Operator             | Driller PETERS         | Operator             | Driller HUMBRE        | Operator             | Driller HUMBRE         | Operator                       | Driller PETERS             | Operator                                | Driller PETERS          | Operator             | Driller PETERS       |            |      |

COMPANY J.C. SPROULE & ASSOCIATES

## DAILY REPORT

DATE SEPT 5, 1960

BOARD COPY

(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BASIN CLIMAX RAMPARTS # 1 K. B. Elev. 1000

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |                      | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                 |                     |                  |              |                      |                       |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                 |                     |                  |              |                      |             |            |       |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-----------------------|----------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|------------|-------|
|                            | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |             |                      | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |                       |          | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |             |            |       |
| DEPTH                      | 153                               |                 | 182                 |                  | 335          |                      |             |                      | 335                               |                 | 251                 |                  | 586          |                      |                       |          | 586                               |                 | 21                  |                  | 607          |                      |             |            |       |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                      | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom            |          | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |            |       |
| BIT RECORD                 | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.             | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled           | Bit-hrs. | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.   |       |
|                            | 4 3/4                             | 1672            | SCONE               | NEW              |              |                      |             |                      | 4 3/4                             | 3               | DRAG                |                  |              |                      |                       | 413      | 11                                | 4 3/4           | 2                   | TRICONS          | RE RUN       |                      |             |            | 2 1/2 |
|                            | 4 3/4                             |                 | DRAG                | NEW              |              |                      | 162         | 3                    | 4 3/4                             |                 |                     |                  |              |                      |                       |          | 4 3/4                             | 4               | TRICONS             | NEW              |              |                      |             | 1 1/4      | 3 1/4 |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                      | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |                       |          | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |            |       |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                      | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind                  |          | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |            |       |
|                            |                                   |                 |                     |                  |              |                      |             |                      |                                   |                 |                     |                  |              |                      |                       |          | 10:00                             | 9.1             | 30                  |                  |              | 10.5                 | QX          |            |       |
| CORING                     | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |                      | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |                       |          | Time                              | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |            |       |
| SURVEY                     | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |             |                      | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |                       |          | Depth                             | Degrees Off     | Depth               | Degrees Off      |              |                      |             |            |       |
| CASING & CEMENTING DETAILS | Size                              | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |                      | Size                              | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |                       |          | Size                              | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |            |       |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                      | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |                       |          | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |            |       |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                      | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                       |          | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |            |       |
| FORMATION TESTS            | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |             |                      | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |                       |          | No.                               | Interval Tested | to                  | min.             | Shut in      | mins.                |             |            |       |
|                            | Valve Open                        |                 |                     |                  |              |                      |             |                      | Valve Open                        |                 |                     |                  |              |                      |                       |          | Valve Open                        |                 |                     |                  |              |                      |             |            |       |
|                            | Gas to Surface                    | min.            | @                   |                  |              | Mcf/d Max.           |             |                      | Gas to Surface                    | min.            | @                   |                  |              |                      | Mcf/d Max.            |          | Gas to Surface                    | min.            | @                   |                  |              |                      |             | Mcf/d Max. |       |
|                            | Oil to Surface                    | min.            | @                   |                  |              | Bbl/d Max.           |             |                      | Oil to Surface                    | min.            | @                   |                  |              |                      | Bbl/d Max.            |          | Oil to Surface                    | min.            | @                   |                  |              |                      |             | Bbl/d Max. |       |
|                            | Recovery:                         | ft.             |                     |                  |              |                      |             |                      | Recovery:                         | ft.             |                     |                  |              |                      |                       |          | Recovery:                         | ft.             |                     |                  |              |                      |             |            |       |
|                            |                                   | ft.             |                     |                  |              |                      |             |                      |                                   | ft.             |                     |                  |              |                      |                       |          |                                   | ft.             |                     |                  |              |                      |             |            |       |
|                            |                                   | ft.             |                     |                  |              |                      |             |                      |                                   | ft.             |                     |                  |              |                      |                       |          |                                   | ft.             |                     |                  |              |                      |             |            |       |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                      | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time                  |          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |            |       |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |             |                      | Type                              | Int.            |                     |                  |              |                      |                       |          | Type                              | Int.            |                     |                  |              |                      |             |            |       |
| REMARKS                    | 12:00 - 3:30 WORK ON B.O.P.       |                 |                     |                  |              |                      |             | 8:00 - 3:45 DRILLING |                                   |                 |                     |                  |              |                      | 4:00 - 4:55 DRILLING  |          |                                   |                 |                     |                  |              |                      |             |            |       |
|                            | 3:30 - 3:45 DRILLING              |                 |                     |                  |              |                      |             | 3:45 - 4:00 TRIPPING |                                   |                 |                     |                  |              |                      | 4:55 - 7:20 DRILLING  |          |                                   |                 |                     |                  |              |                      |             |            |       |
|                            | 3:45 - 4:05 DRILLING              |                 |                     |                  |              |                      |             |                      |                                   |                 |                     |                  |              |                      | 7:20 - 8:40 TRIPPING  |          |                                   |                 |                     |                  |              |                      |             |            |       |
|                            | 4:05 - 5:00 TRIPPING              |                 |                     |                  |              |                      |             |                      |                                   |                 |                     |                  |              |                      | 8:40 - 12:00 DRILLING |          |                                   |                 |                     |                  |              |                      |             |            |       |
|                            | 5:00 - 8:00 DRILLING              |                 |                     |                  |              |                      |             |                      |                                   |                 |                     |                  |              |                      |                       |          |                                   |                 |                     |                  |              |                      |             |            |       |
| Operator                   | Driller PETERS                    |                 |                     |                  |              |                      |             | Operator             | Driller HUMBE                     |                 |                     |                  |              |                      |                       | Operator | Driller HUMBE                     |                 |                     |                  |              |                      |             |            |       |
|                            |                                   |                 |                     |                  |              |                      |             |                      |                                   |                 |                     |                  |              |                      |                       |          | Driller PETERS                    |                 |                     |                  |              |                      |             |            |       |

COMPANY J.C. Sprinkle and Associates

## DAILY REPORT

DATE Sept 4 / 60BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR Big Indian Drilling RIG No. 5 Licensed Well Name & Location Macies Bay Oil Climax Rampart #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.    |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |     |                     |           |                 |                |             |                  | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|--------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|-----|---------------------|-----------|-----------------|----------------|-------------|------------------|-----------------------------------|----------------------|----------------------------|-----------|-----------------------------------------|--------|------------------------|-----------------|--------------------------------------|--------------|----------------|------------------|--------------|----------------------|-----------|-------------|------|-----------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                            | Start of Tour                        |                 | Hole Made This Tour |                  |              |                      | End of Tour |          | Start of Tour                     |     | Hole Made This Tour |           |                 |                | End of Tour |                  | Start of Tour                     |                      | Hole Made This Tour        |           |                                         |        | End of Tour            |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                      |                                      |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TIME                       | On Bottom                            |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |     | Off Bottom          |           | On Bottom       |                | Off Bottom  |                  | On Bottom                         |                      | Off Bottom                 |           | On Bottom                               |        | Off Bottom             |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                                 | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No. | Type                | Condition | Wt.             | R.P.M.         | Ft. Drilled | Bit-hrs.         | Size                              | No.                  | Type                       | Condition | Wt.                                     | R.P.M. | Ft. Drilled            | Bit-hrs.        |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                                 | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          |                                   |     |                     |           | Size            | Stands         | Singles     | Drill Collar     | Kelly                             | Core Bbl.            |                            |           |                                         |        |                        |                 | Size                                 | Stands       | Singles        | Drill Collar     | Kelly        | Core Bbl.            |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                                 | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          |                                   |     |                     |           |                 | Time           | Weight      | Vis.             | Gel Str.                          | pH                   | Am't Added                 | Kind      |                                         |        |                        |                 |                                      |              | Time           | Weight           | Vis.         | Gel Str.             | pH        | Am't Added  | Kind |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CORING                     | Time                                 | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     |                                   |     |                     |           |                 |                | Time        | Interval         |                                   | Ft. Cut              |                            | Ft. Rec'd |                                         | Type   |                        |                 |                                      |              |                |                  | Time         | Interval             |           | Ft. Cut     |      | Ft. Rec'd |  | Type |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SURVEY                     | Depth                                | Degrees Off     |                     | Depth            |              | Degrees Off          |             |          |                                   |     |                     |           |                 | Depth          | Degrees Off |                  | Depth                             |                      | Degrees Off                |           |                                         |        |                        |                 |                                      |              | Depth          | Degrees Off      |              | Depth                |           | Degrees Off |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                                 | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |             |          |                                   |     |                     |           |                 | New/Used       | Grade       |                  | Cubic Feet of Mix (Dry Volume)    |                      | Type of Cementing Material |           | ADDITIVES Including Ratio or Percentage |        | Slurry Weight Lb./Gal. |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERFORATING                | Interval                             | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          |                                   |     |                     |           | Interval        | Shot/Ft.       | Type        | Interval         | Shot/Ft.                          | Type                 |                            |           |                                         |        |                        |                 | Interval                             | Shot/Ft.     | Type           | Interval         | Shot/Ft.     | Type                 |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                             | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |                                   |     |                     |           | Interval        | Amount Gals.   | Kind        | Breakdown Press. | Final Press.                      | Feed Rate Bbls./Min. |                            |           |                                         |        |                        |                 | Interval                             | Amount Gals. | Kind           | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                                  | Interval Tested |                     | to               |              |                      |             |          |                                   |     |                     | No.       | Interval Tested |                | to          |                  |                                   |                      |                            |           |                                         |        | No.                    | Interval Tested |                                      | to           |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            | Valve Open                           | min.            |                     | Shut in          |              | mins.                |             |          |                                   |     |                     |           |                 | Valve Open     | min.        |                  | Shut in                           |                      | mins.                      |           |                                         |        |                        |                 |                                      |              | Valve Open     | min.             |              | Shut in              |           | mins.       |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            | Gas to Surface                       | min.            |                     | @                |              | Mcf/d Max.           |             |          |                                   |     |                     |           |                 | Gas to Surface | min.        |                  | @                                 |                      | Mcf/d Max.                 |           |                                         |        |                        |                 |                                      |              | Gas to Surface | min.             |              | @                    |           | Mcf/d Max.  |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            | Oil to Surface                       | min.            |                     | @                |              | Bbl/d Max.           |             |          |                                   |     |                     |           |                 | Oil to Surface | min.        |                  | @                                 |                      | Bbl/d Max.                 |           |                                         |        |                        |                 |                                      |              | Oil to Surface | min.             |              | @                    |           | Bbl/d Max.  |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            | Recovery:                            | ft.             |                     |                  |              |                      |             |          |                                   |     |                     |           |                 | Recovery:      | ft.         |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              | Recovery:      | ft.              |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      | ft.             |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                | ft.         |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                | ft.              |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      | ft.             |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                | ft.         |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                | ft.              |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                                  | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          |                                   |     |                     |           |                 | No.            | Interval    | Cement           | Additive                          | Plug Down            | Felt At                    | Time      |                                         |        |                        |                 |                                      |              | No.            | Interval         | Cement       | Additive             | Plug Down | Felt At     | Time |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGS                       | Type                                 | Int.            |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             | Type             | Int.                              |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      | Type      | Int.        |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REMARKS                    | 6:00 - 8:00 REPLACING MUD PUMP       |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 | 8:00 - 4:00 REPLACING MUD PUMP       |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  | 4:00 - 6:00 REPLACING MUD PUMP               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  | 6:00 - 8:00 DRILLING OUT CEMENT              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  | 8:00 - 11:00 DRILLING OUT CEMENT             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  | 11:00 - 12:00 WORK ON B.O.P.                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            |                                      |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 |                                      |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  |                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                            | Operator _____ Driller <u>PETERS</u> |                 |                     |                  |              |                      |             |          |                                   |     |                     |           |                 |                |             |                  |                                   |                      |                            |           |                                         |        |                        |                 | Operator _____ Driller <u>HUMBKE</u> |              |                |                  |              |                      |           |             |      |           |  |      |  |  |  |  |  |  |  |  |  |  |  |  | Operator <u>HUMBKE</u> Driller <u>PETERS</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



COMPANY J.C. SPROUSE & ASSOCIATES

## DAILY REPORT

DATE SEPT 3, 1960

BOARD COPY

(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR RIG INDIAN DRAG RIG No. 5 Licensed Well Name & Location GLACIER BASIN S. 1/4 RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m.   |     |                     |           |                 |                |             |                                | THIRD TOUR 4:00 p.m. — 12:00 p.m.     |                      |                     |           |           |        |             |                            |                                         |              |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
|----------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-------------------------------------|-----|---------------------|-----------|-----------------|----------------|-------------|--------------------------------|---------------------------------------|----------------------|---------------------|-----------|-----------|--------|-------------|----------------------------|-----------------------------------------|--------------|----------------|------------------|--------------|----------------------|-----------|------------|------------------------|-----------|--|------|--|--|--|--|
| DEPTH                      | Start of Tour                     |                 | Hole Made This Tour |                  |              |                      | End of Tour |          | Start of Tour                       |     | Hole Made This Tour |           |                 |                | End of Tour |                                | Start of Tour                         |                      | Hole Made This Tour |           |           |        | End of Tour |                            |                                         |              |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
| TIME                       | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                           |     | Off Bottom          |           | On Bottom       |                | Off Bottom  |                                | On Bottom                             |                      | Off Bottom          |           | On Bottom |        | Off Bottom  |                            |                                         |              |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
| BIT RECORD                 | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                                | No. | Type                | Condition | Wt.             | R.P.M.         | Ft. Drilled | Bit-hrs.                       | Size                                  | No.                  | Type                | Condition | Wt.       | R.P.M. | Ft. Drilled | Bit-hrs.                   |                                         |              |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          |                                     |     |                     |           | Size            | Stands         | Singles     | Drill Collar                   | Kelly                                 | Core Bbl.            |                     |           |           |        |             |                            | Size                                    | Stands       | Singles        | Drill Collar     | Kelly        | Core Bbl.            |           |            |                        |           |  |      |  |  |  |  |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          |                                     |     |                     |           |                 | Time           | Weight      | Vis.                           | Gel Str.                              | pH                   | Am't Added          | Kind      |           |        |             |                            |                                         |              | Time           | Weight           | Vis.         | Gel Str.             | pH        | Am't Added | Kind                   |           |  |      |  |  |  |  |
| CORING                     | Time                              | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     |                                     |     |                     |           |                 |                | Time        | Interval                       |                                       | Ft. Cut              |                     | Ft. Rec'd |           | Type   |             |                            |                                         |              |                |                  | Time         | Interval             |           | Ft. Cut    |                        | Ft. Rec'd |  | Type |  |  |  |  |
| SURVEY                     | Depth                             | Degrees Off     |                     | Depth            | Degrees Off  |                      |             |          |                                     |     |                     |           | Depth           | Degrees Off    |             | Depth                          | Degrees Off                           |                      |                     |           |           |        |             |                            | Depth                                   | Degrees Off  |                | Depth            | Degrees Off  |                      |           |            |                        |           |  |      |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                              | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |             |          |                                     |     |                     |           |                 | New/Used       | Grade       | Cubic Feet of Mix (Dry Volume) |                                       |                      |                     |           |           |        |             | Type of Cementing Material | ADDITIVES Including Ratio or Percentage |              |                |                  |              |                      |           |            | Slurry Weight Lb./Gal. |           |  |      |  |  |  |  |
| PERFORATING                | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          |                                     |     |                     |           | Interval        | Shot/Ft.       | Type        | Interval                       | Shot/Ft.                              | Type                 |                     |           |           |        |             |                            | Interval                                | Shot/Ft.     | Type           | Interval         | Shot/Ft.     | Type                 |           |            |                        |           |  |      |  |  |  |  |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |                                     |     |                     |           | Interval        | Amount Gals.   | Kind        | Breakdown Press.               | Final Press.                          | Feed Rate Bbls./Min. |                     |           |           |        |             |                            | Interval                                | Amount Gals. | Kind           | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |           |            |                        |           |  |      |  |  |  |  |
| FORMATION TESTS            | No.                               | Interval Tested |                     | to               |              |                      |             |          |                                     |     |                     | No.       | Interval Tested |                | to          |                                |                                       |                      |                     |           |           |        | No.         | Interval Tested            |                                         | to           |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
|                            | Valve Open                        | min.            |                     | Shut in          |              | mins.                |             |          |                                     |     |                     |           |                 | Valve Open     | min.        |                                | Shut in                               |                      | mins.               |           |           |        |             |                            |                                         |              | Valve Open     | min.             |              | Shut in              |           | mins.      |                        |           |  |      |  |  |  |  |
|                            | Gas to Surface                    | min.            |                     | @                |              | Mcf/d Max.           |             |          |                                     |     |                     |           |                 | Gas to Surface | min.        |                                | @                                     |                      | Mcf/d Max.          |           |           |        |             |                            |                                         |              | Gas to Surface | min.             |              | @                    |           | Mcf/d Max. |                        |           |  |      |  |  |  |  |
|                            | Oil to Surface                    | min.            |                     | @                |              | Bbl/d Max.           |             |          |                                     |     |                     |           |                 | Oil to Surface | min.        |                                | @                                     |                      | Bbl/d Max.          |           |           |        |             |                            |                                         |              | Oil to Surface | min.             |              | @                    |           | Bbl/d Max. |                        |           |  |      |  |  |  |  |
|                            | Recovery:                         | ft.             |                     |                  |              |                      |             |          |                                     |     |                     |           |                 | Recovery:      | ft.         |                                |                                       |                      |                     |           |           |        |             |                            |                                         |              | Recovery:      | ft.              |              |                      |           |            |                        |           |  |      |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |          |                                     |     |                     |           |                 |                | ft.         |                                |                                       |                      |                     |           |           |        |             |                            |                                         |              |                | ft.              |              |                      |           |            |                        |           |  |      |  |  |  |  |
|                            |                                   | ft.             |                     |                  |              |                      |             |          |                                     |     |                     |           |                 |                | ft.         |                                |                                       |                      |                     |           |           |        |             |                            |                                         |              |                | ft.              |              |                      |           |            |                        |           |  |      |  |  |  |  |
| ABANDONMENT PLUGS          | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          |                                     |     |                     |           |                 | No.            | Interval    | Cement                         | Additive                              | Plug Down            | Felt At             | Time      |           |        |             |                            |                                         |              | No.            | Interval         | Cement       | Additive             | Plug Down | Felt At    | Time                   |           |  |      |  |  |  |  |
| LOGS                       | Type                              | Int.            |                     |                  |              |                      |             |          |                                     |     |                     |           |                 | Type           | Int.        |                                |                                       |                      |                     |           |           |        |             |                            |                                         |              | Type           | Int.             |              |                      |           |            |                        |           |  |      |  |  |  |  |
| REMARKS                    | 12:00 - 8:00 WAITING ON REPAIRS   |                 |                     |                  |              |                      |             |          | 8:00 - 4:00 WAITING ON PUMP REPAIRS |     |                     |           |                 |                |             |                                | 4:00 - 12:00 WAITING ON PUMP REPAIRS. |                      |                     |           |           |        |             |                            |                                         |              |                |                  |              |                      |           |            |                        |           |  |      |  |  |  |  |
| Operator                   | Driller <u>PETERS</u>             |                 |                     |                  |              |                      |             |          | Operator                            |     |                     |           |                 |                |             |                                | Driller <u>HUMBKE</u>                 |                      |                     |           |           |        |             |                            | Operator <u>HUMBKE</u>                  |              |                |                  |              |                      |           |            | Driller <u>PETERS</u>  |           |  |      |  |  |  |  |



Form ED-14.

COMPANY J.C. SPADULE & ASSOCIATES

# DAILY REPORT

DATE SEPT. 2 1960

**BOARD COPY**

(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR BIG INDIAN DRILL RIG No. 5 Licensed Well Name & Location GLACIER BAY SEEL CLIMAX TRAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |                | SECOND TOUR5:00 a.m. — 4:00 p.m. |                 |                     |                  |              |                      |             |          | THIRD TOUR4:00 p.m. — 12:00 p.m. |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|----------------------------|----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------------|----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------------|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|
| DEPTH                      | Start of Tour                    |                 | Hole Made This Tour |                  | End of Tour  |                      |             |                | Start of Tour                    |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                    |                 | Hole Made This Tour |                  | End of Tour  |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| TIME                       | On Bottom                        |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                | On Bottom                        |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                        |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                             | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.       | Size                             | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                             | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.       |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                             | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                | Size                             | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                             | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                             | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                | Time                             | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                             | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| CORING                     | Time                             | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |                | Time                             | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |          | Time                             | Interval        | Ft. Cut             | Ft. Rec'd        | Type         |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| SURVEY                     | Depth                            | Degrees Off     | Depth               | Degrees Off      |              |                      |             |                | Depth                            | Degrees Off     | Depth               | Degrees Off      |              |                      |             |          | Depth                            | Degrees Off     | Depth               | Degrees Off      |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Size                             | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |                | Size                             | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |          | Size                             | Amount          | Set at K.B.         | Wt./Ft.          |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| PERFORATING                | Interval                         | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                | Interval                         | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                         | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| ACIDIZING or FRACING       | Interval                         | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                | Interval                         | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                         | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                              | Interval Tested | to                  |                  |              |                      |             |                | No.                              | Interval Tested | to                  |                  |              |                      |             |          | No.                              | Interval Tested | to                  |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Valve Open                       | min.            | Shut in             | mins.            |              |                      |             |                | Valve Open                       | min.            | Shut in             | mins.            |              |                      |             |          | Valve Open                       | min.            | Shut in             | mins.            |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Gas to Surface                   | min.            | @                   |                  |              |                      |             |                | Gas to Surface                   | min.            | @                   |                  |              |                      |             |          | Gas to Surface                   | min.            | @                   |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Oil to Surface                   | min.            | @                   |                  |              |                      |             |                | Oil to Surface                   | min.            | @                   |                  |              |                      |             |          | Oil to Surface                   | min.            | @                   |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            | Recovery:                        | ft.             |                     |                  |              |                      |             |                | Recovery:                        | ft.             |                     |                  |              |                      |             |          | Recovery:                        | ft.             |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  | ft.             |                     |                  |              |                      |             |                |                                  | ft.             |                     |                  |              |                      |             |          |                                  | ft.             |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                              | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                | No.                              | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                              | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| LOGS                       | Type                             | Int.            |                     |                  |              |                      |             |                | Type                             | Int.            |                     |                  |              |                      |             |          | Type                             | Int.            |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| REMARKS                    | W.D.C.                           |                 |                     |                  |              |                      |             |                | 8:00 - 4:00 W.D.C.               |                 |                     |                  |              |                      |             |          | 4:00 - 5:30 W.D.C.               |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          | 5:30 - 12:00 PUMP WASHED OUT.    |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          | WAITING ON REPAIRS.              |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
|                            |                                  |                 |                     |                  |              |                      |             |                |                                  |                 |                     |                  |              |                      |             |          |                                  |                 |                     |                  |              |                      |             |                |  |  |  |  |  |  |  |                  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |
| Operator                   |                                  |                 |                     |                  |              |                      |             | Driller PETERS |                                  |                 |                     |                  |              |                      |             | Operator |                                  |                 |                     |                  |              |                      |             | Driller HUMBKE |  |  |  |  |  |  |  | Operator HUMBKE. |  |  |  |  |  |  |  | Driller PETERS |  |  |  |  |  |  |  |

# DAILY REPORT

DATE SEPT. 1, 1960

**BOARD COPY**  
(TO BE SENT TO BOARD  
FIELD OFFICE)

CONTRACTOR BIG INDIAN DRUG. RIG No. 5 Licensed Well Name & Location GLACIER BASIN CLIMAX RAMPARTS #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR             |                    |                     |                  |              |                      |                                |                            | SECOND TOUR                             |                        |                                 |                 |             |              |              |           | THIRD TOUR             |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|----------------------------|------------------------|--------------------|---------------------|------------------|--------------|----------------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|---------------------------------|-----------------|-------------|--------------|--------------|-----------|------------------------|--------------|----------------------|--------------|-------------|-----------------|----------------|--------------|-------------|-------------|----------|--------------|--------------------------------|----------------------------|-----------------------------------------|------------------------|-----------|------------|------|--|--|--|--|--|--|--|--|--|
|                            | 12:00 p.m. — 8:00 a.m. |                    |                     |                  |              |                      |                                |                            | 8:00 a.m. — 4:00 p.m.                   |                        |                                 |                 |             |              |              |           | 4:00 p.m. — 12:00 p.m. |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| DATE                       | Start of Tour          |                    | Hole Made This Tour |                  | End of Tour  |                      |                                |                            | Start of Tour                           |                        | Hole Made This Tour             |                 | End of Tour |              |              |           | Start of Tour          |              | Hole Made This Tour  |              | End of Tour |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | Time                   | Depth              | Feet                | Perforations     | Feet         | Perforations         | Feet                           | Perforations               | Time                                    | Depth                  | Feet                            | Perforations    | Feet        | Perforations | Time         | Depth     | Feet                   | Perforations | Feet                 | Perforations | Time        | Depth           | Feet           | Perforations |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| 12TH                       | 12:5                   |                    | 28                  |                  | 153          |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| TIME                       | On Bottom              |                    | Off Bottom          |                  | On Bottom    |                      | Off Bottom                     |                            | On Bottom                               |                        | Off Bottom                      |                 | On Bottom   |              | Off Bottom   |           | On Bottom              |              | Off Bottom           |              | On Bottom   |                 | Off Bottom     |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| BIT RECORD                 | Size                   | No.                | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled                    | Bit-hrs.                   | Size                                    | No.                    | Type                            | Condition       | Wt.         | R.P.M.       | Ft. Drilled  | Bit-hrs.  | Size                   | No.          | Type                 | Condition    | Wt.         | R.P.M.          | Ft. Drilled    | Bit-hrs.     |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 8 5/8                  |                    | 3 C&W               |                  |              |                      | 153                            | 20                         |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| DRILL PIPE                 | Size                   | Stands             | Singles             | Drill Collar     | Kelly        | Core Bbl.            |                                |                            |                                         |                        |                                 |                 |             | Size         | Stands       | Singles   | Drill Collar           | Kelly        | Core Bbl.            |              |             |                 |                |              |             |             | Size     | Stands       | Singles                        | Drill Collar               | Kelly                                   | Core Bbl.              |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| MUD RECORD                 | Time                   | Weight             | Vis.                | Gel Str.         | pH           | Am't Added           | Kind                           |                            |                                         |                        |                                 |                 |             |              | Time         | Weight    | Vis.                   | Gel Str.     | pH                   | Am't Added   | Kind        |                 |                |              |             |             |          |              | Time                           | Weight                     | Vis.                                    | Gel Str.               | pH        | Am't Added | Kind |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              | 100                  | GEL                            |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| CORING                     | Time                   | Interval           | Ft. Cut             | Ft. Rec'd        | Type         |                      |                                |                            |                                         |                        |                                 |                 | Time        | Interval     | Ft. Cut      | Ft. Rec'd | Type                   |              |                      |              |             |                 |                |              | Time        | Interval    | Ft. Cut  | Ft. Rec'd    | Type                           |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| SURVEY                     | Depth                  | Degrees Off        | Depth               | Degrees Off      |              |                      |                                |                            |                                         |                        |                                 | Depth           | Degrees Off | Depth        | Degrees Off  |           |                        |              |                      |              |             |                 | Depth          | Degrees Off  | Depth       | Degrees Off |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| CASING & CEMENTING DETAILS | Size                   | Amount             | Set at K.B.         | Wt./Ft.          | New/Used     | Grade                | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 | Size           | Amount       | Set at K.B. | Wt./Ft.     | New/Used | Grade        | Cubic Feet of Mix (Dry Volume) | Type of Cementing Material | ADDITIVES Including Ratio or Percentage | Slurry Weight Lb./Gal. |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 6 3/4                  | 146.36             | 153.00              | 24               | NEW          | J 55                 | 30 SAX CEMENT                  |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| PERFORATING                | Interval               | Shot/Ft.           | Type                | Interval         | Shot/Ft.     | Type                 |                                |                            |                                         |                        |                                 |                 |             | Interval     | Shot/Ft.     | Type      | Interval               | Shot/Ft.     | Type                 |              |             |                 |                |              |             |             | Interval | Shot/Ft.     | Type                           | Interval                   | Shot/Ft.                                | Type                   |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| ACIDIZING or FLUORINATING  | Interval               | Amount Gals.       | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |                                |                            |                                         |                        |                                 |                 |             | Interval     | Amount Gals. | Kind      | Breakdown Press.       | Final Press. | Feed Rate Bbls./Min. |              |             |                 |                |              |             |             | Interval | Amount Gals. | Kind                           | Breakdown Press.           | Final Press.                            | Feed Rate Bbls./Min.   |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| FORMATION TESTS            | No.                    | Interval Tested    | to                  |                  |              |                      |                                |                            |                                         |                        | No.                             | Interval Tested | to          |              |              |           |                        |              |                      |              | No.         | Interval Tested | to             |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | Valve Open             | min.               | Shut in             | mins.            |              |                      |                                |                            |                                         |                        |                                 | Valve Open      | min.        | Shut in      | mins.        |           |                        |              |                      |              |             |                 | Valve Open     | min.         | Shut in     | mins.       |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | Gas to Surface         | min.               | @                   | Mcf/d Max.       |              |                      |                                |                            |                                         |                        |                                 | Gas to Surface  | min.        | @            | Mcf/d Max.   |           |                        |              |                      |              |             |                 | Gas to Surface | min.         | @           | Mcf/d Max.  |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | Oil to Surface         | min.               | @                   | Bbl/d Max.       |              |                      |                                |                            |                                         |                        |                                 | Oil to Surface  | min.        | @            | Bbl/d Max.   |           |                        |              |                      |              |             |                 | Oil to Surface | min.         | @           | Bbl/d Max.  |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | Recovery:              | ft.                |                     |                  |              |                      |                                |                            |                                         | Recovery:              | ft.                             |                 |             |              |              |           |                        |              | Recovery:            | ft.          |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            |                        | ft.                |                     |                  |              |                      |                                |                            |                                         |                        | ft.                             |                 |             |              |              |           |                        |              |                      | ft.          |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| ABANDONMENT PLUGS          | No.                    | Interval           | Cement              | Additive         | Plug Down    | Felt At              | Time                           |                            |                                         |                        |                                 |                 |             |              | No.          | Interval  | Cement                 | Additive     | Plug Down            | Felt At      | Time        |                 |                |              |             |             |          |              | No.                            | Interval                   | Cement                                  | Additive               | Plug Down | Felt At    | Time |  |  |  |  |  |  |  |  |  |
|                            |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| LOGS                       | Type                   | Int.               |                     |                  |              |                      |                                |                            |                                         | Type                   | Int.                            |                 |             |              |              |           |                        |              | Type                 | Int.         |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 12:00 - 4:45           | DRILLING           |                     |                  |              |                      |                                |                            |                                         | 8:00 - 9:00            | WELD TOOL JOINTS AND WELD SLIPS |                 |             |              |              |           |                        |              | 4:00 - 5:30          | CEMENTING    |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 4:45 - 5:00            | MIXING MUD         |                     |                  |              |                      |                                |                            |                                         | 9:00 - 10:30           | PULLED OUT.                     |                 |             |              |              |           |                        |              | 5:30 - 12:00         | W.O.C.       |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 5:00 - 7:00            | DRILLING           |                     |                  |              |                      |                                |                            |                                         | 10:30 - 12:00          | MADE DUMMY TRIP                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 7:00 - 7:30            | TRIPPING           |                     |                  |              |                      |                                |                            |                                         | 12:00 - 3:00           | RUN CASING                      |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
|                            | 7:30 - 8:00            | WELDING TOOL JOINT |                     |                  |              |                      |                                |                            |                                         | 3:00 - 4:00            | CEMENTING                       |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |
| REMARKS                    |                        |                    |                     |                  |              |                      |                                |                            |                                         |                        |                                 |                 |             |              |              |           |                        |              |                      |              |             |                 |                |              |             |             |          |              |                                |                            |                                         |                        |           |            |      |  |  |  |  |  |  |  |  |  |

COMPANY J.C. Sprule & Associates

## DAILY REPORT

DATE Aug 31/60BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR Bis Indian Ind. RIG No. 5 Licensed Well Name & Location Alacier Bayel Oemar Reports #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |              |                  |              |                      |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                 |                     |              |                  |              |                      |          | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                 |                     |              |                  |              |                      |          |
|----------------------------|-----------------------------------|-----------------|---------------------|--------------|------------------|--------------|----------------------|----------|-----------------------------------|-----------------|---------------------|--------------|------------------|--------------|----------------------|----------|-----------------------------------|-----------------|---------------------|--------------|------------------|--------------|----------------------|----------|
|                            | Start of Tour                     |                 | Hole Made This Tour |              | End of Tour      |              |                      |          | Start of Tour                     |                 | Hole Made This Tour |              | End of Tour      |              |                      |          | Start of Tour                     |                 | Hole Made This Tour |              | End of Tour      |              |                      |          |
| DEPTH                      | 0                                 |                 | 30                  |              | 30               |              |                      |          | 30                                |                 | 85                  |              | 115              |              |                      |          | 115                               |                 | 10                  |              | 125              |              |                      |          |
| TIME                       | On Bottom                         |                 | Off Bottom          |              | On Bottom        |              | Off Bottom           |          | On Bottom                         |                 | Off Bottom          |              | On Bottom        |              | Off Bottom           |          | On Bottom                         |                 | Off Bottom          |              | On Bottom        |              | Off Bottom           |          |
| BIT RECORD                 | Size                              | No.             | Type                | Condition    | Wt.              | R.P.M.       | Ft. Drilled          | Bit-hrs. | Size                              | No.             | Type                | Condition    | Wt.              | R.P.M.       | Ft. Drilled          | Bit-hrs. | Size                              | No.             | Type                | Condition    | Wt.              | R.P.M.       | Ft. Drilled          | Bit-hrs. |
|                            | 8 3/4                             |                 | 3 CONE              | USED         |                  |              | 30                   | 1 1/2    | 8 3/4                             | 1               | TRICONE             |              |                  |              | 115                  | 8        | 8 3/4                             | 1               | TRICONE             |              |                  |              |                      | 13 3/4   |
| DRILL PIPE                 | Size                              | Stands          | Singles             | Drill Collar | Kelly            | Core Bbl.    |                      |          | Size                              | Stands          | Singles             | Drill Collar | Kelly            | Core Bbl.    |                      |          | Size                              | Stands          | Singles             | Drill Collar | Kelly            | Core Bbl.    |                      |          |
| MUD RECORD                 | Time                              | Weight          | Vis.                | Gel. Str.    | pH               | Am't Added   | Kind                 |          | Time                              | Weight          | Vis.                | Gel. Str.    | pH               | Am't Added   | Kind                 |          | Time                              | Weight          | Vis.                | Gel. Str.    | pH               | Am't Added   | Kind                 |          |
|                            |                                   |                 |                     |              |                  | 120          | GEL                  |          |                                   |                 |                     |              |                  | 400          | MAGGOL               |          |                                   |                 |                     |              |                  | 200          | MAGGOL               |          |
| CORING                     | Time                              | Interval        |                     | Ft. Cut      |                  | Ft. Rec'd    |                      | Type     | Time                              | Interval        |                     | Ft. Cut      |                  | Ft. Rec'd    |                      | Type     | Time                              | Interval        |                     | Ft. Cut      |                  | Ft. Rec'd    |                      | Type     |
|                            |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |
| SURVEY                     | Depth                             | Degrees Off     |                     | Depth        | Degrees Off      |              |                      |          | Depth                             | Degrees Off     |                     | Depth        | Degrees Off      |              |                      |          | Depth                             | Degrees Off     |                     | Depth        | Degrees Off      |              |                      |          |
| CASING & CEMENTING DETAILS | Size                              | Amount          |                     | Set at K.B.  |                  | Wt./Ft.      |                      |          | Size                              | Amount          |                     | Set at K.B.  |                  | Wt./Ft.      |                      |          | Size                              | Amount          |                     | Set at K.B.  |                  | Wt./Ft.      |                      |          |
| PERFORATING                | Interval                          | Shot/Ft.        |                     | Type         |                  | Interval     | Shot/Ft.             |          | Type                              | Interval        | Shot/Ft.            |              | Type             |              | Interval             | Shot/Ft. |                                   | Type            | Interval            | Shot/Ft.     |                  | Type         |                      |          |
| ACIDIZING or FRACING       | Interval                          | Amount Gals.    |                     | Kind         | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |          | Interval                          | Amount Gals.    |                     | Kind         | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |          | Interval                          | Amount Gals.    |                     | Kind         | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |          |
| FORMATION TESTS            | No.                               | Interval Tested |                     | to           |                  |              |                      |          | No.                               | Interval Tested |                     | to           |                  |              |                      |          | No.                               | Interval Tested |                     | to           |                  |              |                      |          |
|                            | Valve Open                        | min.            |                     | Shut in      |                  | mins.        |                      |          | Valve Open                        | min.            |                     | Shut in      |                  | mins.        |                      |          | Valve Open                        | min.            |                     | Shut in      |                  | mins.        |                      |          |
|                            | Gas to Surface                    | min.            |                     | @            |                  | Mcf/d Max.   |                      |          | Gas to Surface                    | min.            |                     | @            |                  | Mcf/d Max.   |                      |          | Gas to Surface                    | min.            |                     | @            |                  | Mcf/d Max.   |                      |          |
|                            | Oil to Surface                    | min.            |                     | @            |                  | Bbl/d Max.   |                      |          | Oil to Surface                    | min.            |                     | @            |                  | Bbl/d Max.   |                      |          | Oil to Surface                    | min.            |                     | @            |                  | Bbl/d Max.   |                      |          |
|                            | Recovery:                         | ft.             |                     |              |                  |              |                      |          | Recovery:                         | ft.             |                     |              |                  |              |                      |          | Recovery:                         | ft.             |                     |              |                  |              |                      |          |
|                            |                                   | ft.             |                     |              |                  |              |                      |          |                                   | ft.             |                     |              |                  |              |                      |          |                                   | ft.             |                     |              |                  |              |                      |          |
|                            |                                   | ft.             |                     |              |                  |              |                      |          |                                   | ft.             |                     |              |                  |              |                      |          |                                   | ft.             |                     |              |                  |              |                      |          |
| ABANDONMENT PLUGS          | No.                               | Interval        |                     | Cement       | Additive         | Plug Down    | Felt At              | Time     | No.                               | Interval        |                     | Cement       | Additive         | Plug Down    | Felt At              | Time     | No.                               | Interval        |                     | Cement       | Additive         | Plug Down    | Felt At              | Time     |
| LOGS                       | Type                              | Int.            |                     |              |                  |              |                      |          | Type                              | Int.            |                     |              |                  |              |                      |          | Type                              | Int.            |                     |              |                  |              |                      |          |
| REMARKS                    | 1200 - 630 RIGGING UP             |                 |                     |              |                  |              |                      |          | 8:00 - 2:30 DRILLING              |                 |                     |              |                  |              |                      |          | 4:00 - 4:30 WORKING ON MUD PUMPS. |                 |                     |              |                  |              |                      |          |
|                            | 630 - 700 DRILLING                |                 |                     |              |                  |              |                      |          | 2:30 - 4:00 WORKING ON MUD PUMPS. |                 |                     |              |                  |              |                      |          | 4:30 - 8:00 DRILLING              |                 |                     |              |                  |              |                      |          |
|                            | 700 - 730 MUD                     |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          | 8:00 - 9:45 WORK ON PUMP          |                 |                     |              |                  |              |                      |          |
|                            | 730 - 800 - DRILLING              |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          | 9:45 - 1200 DRILLING              |                 |                     |              |                  |              |                      |          |
|                            |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |
|                            |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          |
| Operator                   | Driller PETERS                    |                 |                     |              |                  |              |                      |          | Operator                          |                 |                     |              |                  |              |                      |          | Driller HUMBER                    |                 |                     |              |                  |              |                      |          |
|                            |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          | Operator HUMBER                   |                 |                     |              |                  |              |                      |          |
|                            |                                   |                 |                     |              |                  |              |                      |          |                                   |                 |                     |              |                  |              |                      |          | Driller PETERS                    |                 |                     |              |                  |              |                      |          |



## DAILY REPORT

DATE Aug 30/60BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)COMPANY J. C. Grindle & AssociatesCONTRACTOR Big Indian Ind. RIG No. 5 Licensed Well Name & Location Harris Bayou Along Highway #1 K. B. Elev. \_\_\_\_\_

|                                                                                                               | FIRST TOUR 12:00 p.m. — 8:00 a.m. |                 |                     |                  |              |                      |             |                              | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                 |                     |                  |              |                                |             |                              | THIRD TOUR 4:00 p.m. — 12:00 p.m. |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|------------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|--------------------------------|-------------|------------------------------|-----------------------------------|-----------------|---------------------|------------------|--------------|----------------------------|-------------|-----------------------------------------|------|------------------------|--|
| DEPTH                                                                                                         | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                      |             |                              | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                                |             |                              | Start of Tour                     |                 | Hole Made This Tour |                  | End of Tour  |                            |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| TIME                                                                                                          | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |                              | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                                | Off Bottom  |                              | On Bottom                         |                 | Off Bottom          |                  | On Bottom    |                            | Off Bottom  |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| BIT RECORD                                                                                                    | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.                     | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.                         | Ft. Drilled | Bit-hrs.                     | Size                              | No.             | Type                | Condition        | Wt.          | R.P.M.                     | Ft. Drilled | Bit-hrs.                                |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| DRILL PIPE                                                                                                    | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |                              | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.                      |             |                              | Size                              | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.                  |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| MUD RECORD                                                                                                    | Time                              | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |                              |                                   | Time            | Weight              | Vis.             | Gel Str.     | pH                             | Am't Added  | Kind                         |                                   |                 | Time                | Weight           | Vis.         | Gel Str.                   | pH          | Am't Added                              | Kind |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| CORING                                                                                                        | Time                              | Interval        | Ft. Cut             |                  | Ft. Rec'd    |                      | Type        |                              |                                   | Time            | Interval            | Ft. Cut          |              | Ft. Rec'd                      |             | Type                         |                                   |                 | Time                | Interval         | Ft. Cut      |                            | Ft. Rec'd   |                                         | Type |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| SURVEY                                                                                                        | Depth                             | Degrees Off     | Depth               | Degrees Off      | Set at K.B.  |                      | Wt./Ft.     |                              |                                   | Depth           | Degrees Off         | Depth            | Degrees Off  | Cubic Feet of Max (Dry Volume) |             |                              |                                   | Depth           | Degrees Off         | Depth            | Degrees Off  | Type of Cementing Material |             | ADDITIVES Including Ratio or Percentage |      | Slurry Weight Lb./Gal. |  |
|                                                                                                               | Size                              | Amount          |                     |                  |              |                      |             |                              |                                   |                 | Size                | Amount           |              |                                |             |                              |                                   |                 | Size                | Amount           |              |                            |             |                                         |      |                        |  |
| CASING & CEMENTING DETAILS                                                                                    | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |                              | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                           |             |                              | Interval                          | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                       |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| PERFORATING                                                                                                   | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                              | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.           |             |                              | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.       |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| ACIDIZING or FRACING                                                                                          | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |                              | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.           |             |                              | Interval                          | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min.       |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| FORMATION TESTS                                                                                               | No.                               | Interval Tested | to                  |                  | mins.        |                      |             |                              | No.                               | Interval Tested | to                  |                  | mins.        |                                |             |                              | No.                               | Interval Tested | to                  |                  | mins.        |                            |             |                                         |      |                        |  |
|                                                                                                               | Valve Open min. Shut in mins.     |                 |                     |                  |              |                      |             |                              | Valve Open min. Shut in mins.     |                 |                     |                  |              |                                |             |                              | Valve Open min. Shut in mins.     |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               | Gas to Surface min. @ Mcf/d Max.  |                 |                     |                  |              |                      |             |                              | Gas to Surface min. @ Mcf/d Max.  |                 |                     |                  |              |                                |             |                              | Gas to Surface min. @ Mcf/d Max.  |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               | Oil to Surface min. @ Bbl/d Max.  |                 |                     |                  |              |                      |             |                              | Oil to Surface min. @ Bbl/d Max.  |                 |                     |                  |              |                                |             |                              | Oil to Surface min. @ Bbl/d Max.  |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               | Recovery: ft.                     |                 |                     |                  |              |                      |             |                              | Recovery: ft.                     |                 |                     |                  |              |                                |             |                              | Recovery: ft.                     |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               | ft.                               |                 |                     |                  |              |                      |             |                              | ft.                               |                 |                     |                  |              |                                |             |                              | ft.                               |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| ABANDONMENT PLUGS                                                                                             | No.                               | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |                              |                                   | No.             | Interval            | Cement           | Additive     | Plug Down                      | Felt At     | Time                         |                                   |                 | No.                 | Interval         | Cement       | Additive                   | Plug Down   | Felt At                                 | Time |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| LOGS                                                                                                          | Type                              | Int.            |                     |                  |              |                      |             |                              | Type                              | Int.            |                     |                  |              |                                |             |                              | Type                              | Int.            |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| REMARKS                                                                                                       |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
|                                                                                                               |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| Operator _____ Driller _____                                                                                  |                                   |                 |                     |                  |              |                      |             | Operator _____ Driller _____ |                                   |                 |                     |                  |              |                                |             | Operator _____ Driller _____ |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |
| <p>Water on cut to build base &amp; seal<br/>run till 3 P.M. - landed again<br/>- rigging up till 12 P.M.</p> |                                   |                 |                     |                  |              |                      |             |                              |                                   |                 |                     |                  |              |                                |             |                              |                                   |                 |                     |                  |              |                            |             |                                         |      |                        |  |

COMPANY J. C. Sprule & Associates

## DAILY REPORT

DATE Aug 29/68BOARD COPY  
(TO BE SENT TO BOARD  
FIELD OFFICE)CONTRACTOR Big Indian Ind. RIG No. 5 Licensed Well Name & Location Wesley Bayou, Orange County, Texas #1 K. B. Elev. \_\_\_\_\_

|                            | FIRST TOUR 12:00 p.m. — 8:00 a.m.                                                                                                                                                                |                 |                     |                  |              |                      |             |          | SECOND TOUR 8:00 a.m. — 4:00 p.m. |                 |                     |                                |              |                      |             |                            | THIRD TOUR 4:00 p.m. — 12:00 p.m.       |                 |                        |                  |              |                      |             |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|------------------|--------------|----------------------|-------------|----------|-----------------------------------|-----------------|---------------------|--------------------------------|--------------|----------------------|-------------|----------------------------|-----------------------------------------|-----------------|------------------------|------------------|--------------|----------------------|-------------|----------|
|                            | Start of Tour                                                                                                                                                                                    |                 | Hole Made This Tour |                  | End of Tour  |                      |             |          | Start of Tour                     |                 | Hole Made This Tour |                                | End of Tour  |                      |             |                            | Start of Tour                           |                 | Hole Made This Tour    |                  | End of Tour  |                      |             |          |
| DEPTH                      |                                                                                                                                                                                                  |                 |                     |                  |              |                      |             |          |                                   |                 |                     |                                |              |                      |             |                            |                                         |                 |                        |                  |              |                      |             |          |
| TIME                       | On Bottom                                                                                                                                                                                        |                 | Off Bottom          |                  | On Bottom    |                      | Off Bottom  |          | On Bottom                         |                 | Off Bottom          |                                | On Bottom    |                      | Off Bottom  |                            | On Bottom                               |                 | Off Bottom             |                  | On Bottom    |                      | Off Bottom  |          |
| BIT RECORD                 | Size                                                                                                                                                                                             | No.             | Type                | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. | Size                              | No.             | Type                | Condition                      | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs.                   | Size                                    | No.             | Type                   | Condition        | Wt.          | R.P.M.               | Ft. Drilled | Bit-hrs. |
| DRILL PIPE                 | Size                                                                                                                                                                                             | Stands          | Singles             | Drill Collar     | Kelly        | Core Bbl.            |             |          | Size                              | Stands          | Singles             | Drill Collar                   | Kelly        | Core Bbl.            |             |                            | Size                                    | Stands          | Singles                | Drill Collar     | Kelly        | Core Bbl.            |             |          |
| MUD RECORD                 | Time                                                                                                                                                                                             | Weight          | Vis.                | Gel Str.         | pH           | Am't Added           | Kind        |          | Time                              | Weight          | Vis.                | Gel Str.                       | pH           | Am't Added           | Kind        |                            | Time                                    | Weight          | Vis.                   | Gel Str.         | pH           | Am't Added           | Kind        |          |
| CORING                     | Time                                                                                                                                                                                             | Interval        |                     | Ft. Cut          |              | Ft. Rec'd            |             | Type     | Time                              | Interval        |                     | Ft. Cut                        |              | Ft. Rec'd            |             | Type                       | Time                                    | Interval        |                        | Ft. Cut          |              | Ft. Rec'd            |             | Type     |
| SURVEY                     | Depth                                                                                                                                                                                            | Degrees Off     |                     | Depth            | Degrees Off  |                      |             |          | Depth                             | Degrees Off     |                     | Depth                          | Degrees Off  |                      |             |                            | Depth                                   | Degrees Off     |                        | Depth            | Degrees Off  |                      |             |          |
| CASING & CEMENTING DETAILS | Size                                                                                                                                                                                             | Amount          |                     | Set at K.B.      |              | Wt./Ft.              |             |          | New/Used                          | Grade           |                     | Cubic Feet of Mix (Dry Volume) |              |                      |             | Type of Cementing Material | ADDITIVES Including Ratio or Percentage |                 | Slurry Weight Lb./Gal. |                  |              |                      |             |          |
| PERFORATING                | Interval                                                                                                                                                                                         | Shot/Ft.        | Type                | Interval         | Shot/Ft.     | Type                 |             |          | Interval                          | Shot/Ft.        | Type                | Interval                       | Shot/Ft.     | Type                 |             |                            | Interval                                | Shot/Ft.        | Type                   | Interval         | Shot/Ft.     | Type                 |             |          |
| ACIDIZING or FRACING       | Interval                                                                                                                                                                                         | Amount Gals.    | Kind                | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          | Interval                          | Amount Gals.    | Kind                | Breakdown Press.               | Final Press. | Feed Rate Bbls./Min. |             |                            | Interval                                | Amount Gals.    | Kind                   | Breakdown Press. | Final Press. | Feed Rate Bbls./Min. |             |          |
| FORMATION TESTS            | No.                                                                                                                                                                                              | Interval Tested |                     | to               |              |                      |             |          | No.                               | Interval Tested |                     | to                             |              |                      |             |                            | No.                                     | Interval Tested |                        | to               |              |                      |             |          |
|                            | Valve Open                                                                                                                                                                                       | min.            |                     | Shut in          |              | mins.                |             |          | Valve Open                        | min.            |                     | Shut in                        |              | mins.                |             |                            | Valve Open                              | min.            |                        | Shut in          |              | mins.                |             |          |
|                            | Gas to Surface                                                                                                                                                                                   | min.            |                     | @                |              | Mcf/d Max.           |             |          | Gas to Surface                    | min.            |                     | @                              |              | Mcf/d Max.           |             |                            | Gas to Surface                          | min.            |                        | @                |              | Mcf/d Max.           |             |          |
|                            | Oil to Surface                                                                                                                                                                                   | min.            |                     | @                |              | Bbl/d Max.           |             |          | Oil to Surface                    | min.            |                     | @                              |              | Bbl/d Max.           |             |                            | Oil to Surface                          | min.            |                        | @                |              | Bbl/d Max.           |             |          |
|                            | Recovery:                                                                                                                                                                                        | ft.             |                     |                  |              |                      |             |          | Recovery:                         | ft.             |                     |                                |              |                      |             |                            | Recovery:                               | ft.             |                        |                  |              |                      |             |          |
|                            |                                                                                                                                                                                                  | ft.             |                     |                  |              |                      |             |          |                                   | ft.             |                     |                                |              |                      |             |                            |                                         | ft.             |                        |                  |              |                      |             |          |
|                            |                                                                                                                                                                                                  | ft.             |                     |                  |              |                      |             |          |                                   | ft.             |                     |                                |              |                      |             |                            |                                         | ft.             |                        |                  |              |                      |             |          |
| ABANDONMENT PLUGS          | No.                                                                                                                                                                                              | Interval        | Cement              | Additive         | Plug Down    | Felt At              | Time        |          | No.                               | Interval        | Cement              | Additive                       | Plug Down    | Felt At              | Time        |                            | No.                                     | Interval        | Cement                 | Additive         | Plug Down    | Felt At              | Time        |          |
| LOGS                       | Type                                                                                                                                                                                             |                 | Int.                |                  |              |                      |             |          | Type                              |                 | Int.                |                                |              |                      |             |                            | Type                                    |                 | Int.                   |                  |              |                      |             |          |
| REMARKS                    | <p>Traveling to St. James, had trouble finding place to get cat unloaded. Unloaded cat at St. James &amp; walked it back to location. Had to cut down out of side of riverbank 5 AM to 9 PM.</p> |                 |                     |                  |              |                      |             |          |                                   |                 |                     |                                |              |                      |             |                            |                                         |                 |                        |                  |              |                      |             |          |
|                            | Operator                                                                                                                                                                                         |                 |                     |                  |              |                      |             |          |                                   |                 |                     |                                | Driller      |                      |             |                            |                                         |                 |                        |                  |              |                      |             |          |
|                            | Operator                                                                                                                                                                                         |                 |                     |                  |              |                      |             |          |                                   |                 |                     |                                | Driller      |                      |             |                            |                                         |                 |                        |                  |              |                      |             |          |