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U. S. LAND OFFICE ~~Santa Fe, N. M.~~  
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LEASE OR PERMIT TO PROSPECT -----

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

### LOCATE WELL CORRECTLY

Company ~~Shell Oil Company~~ Address 705 West Municipal Drive  
Lessor or Tract ~~Federal-Carson Unit~~ Field ~~Bisti~~ Farmington, New Mex. State New Mexico  
Well No. 33-11 Sec. 11 T. 25N R. 12W Meridian NMPM County San Juan  
Location 1980 ft. <sup>[N.]</sup>S. of S Line and 1980 ft. <sup>[E.]</sup>W. of E Line of Sec. 11 Elevation 6351 KB  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed \_\_\_\_\_ Original signed by \_\_\_\_\_

Date October 27, 1958 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling September 18, 1958 Finished drilling September 25, 1958

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

(gross) (Denote gas by *G*)

|                                        |                            |
|----------------------------------------|----------------------------|
| No. 1, from <u>4882</u> to <u>4996</u> | No. 4, from _____ to _____ |
| No. 2, from _____ to _____             | No. 5, from _____ to _____ |
| No. 3, from _____ to _____             | No. 6, from _____ to _____ |

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used  | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|--------------|-------------|--------------------|
| 8-5/8 in    | 107       | 100                    | Displacement | ---         | ---                |
| 4-1/2 in    | 5040      | 150                    | Displacement | ---         | ---                |

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

-----, 19-<sup>58</sup> Put to producing -----, 19-<sup>58</sup>  
**October 27,**  
The production for the first 24 hours was ----- barrels of fluid of which -----% was oil; -----%  
-----% water; and -----% sediment. -----  
Gravity, °Bé. -----  
If gas well, cu. ft. per 24 hours ----- Approx. 40° API  
Gallons gasoline per 1,000 cu. ft. of gas -----  
Rock pressure, lbs. per sq. in. -----

## EMPLOYEES

|       |            | EMPLOYEES |         | Brinkerhoff Drilling Co. |            |       |         |
|-------|------------|-----------|---------|--------------------------|------------|-------|---------|
| ----- | J. Speaker | -----     | Driller | -----                    | F. Babcock | ----- | Driller |
| ----- | V. Black   | -----     | Driller | -----                    |            | ----- | Driller |

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION       |
|-------|------|------------|-----------------|
| 1182  | 1375 | 193        | Pictured Cliffs |
| 1375  | 1583 | 208        | Lewis           |
| 1583  | 2064 | 481        | Cliff House     |
| 2064  | 3685 | 1621       | Allison-Menefee |
| 3685  | 3864 | 179        | Point Lookout   |
| 3864  | 4788 | 924        | Mancos          |
| 4788  | ---  | ---        | Gallup          |

**FORMATION RECORD-Continued**

[illegible]

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

## HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Attached: Drilling History

# **DRILLING REPORT** FOR PERIOD ENDING

Sec 11

(SECTION OR LEASE)

T25N R12W

(TOWNSHIP OR RANGE)

Histi

(FIELD)

San Juan, New Mexico

(COUNTY)

9-25-58

| DAY                | DEPTHS |      | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | FROM   | TO   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9-18<br>to<br>9-19 | 0      | 2308 | <p><u>Location:</u> 1980' N and 1980' W of SE Corner Sec 11, T25N, R12W, NMPM, San Juan County, New Mexico</p> <p><u>Elevations:</u> GR 6351.3'<br/>DF 6359.0'<br/>KB 6351.0'</p> <p>Spudded 7:00A.M. 9-18-58. Ran and cemented (97') 8-5/8", 24#, J-55 casing at 107' with 100 sacks cement treated 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 500 psi, OK.</p>                                                                 |
| 9-20<br>to<br>9-23 | 2308   | 4831 | <p><u>Drilled 2523'.</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9-24<br>to<br>9-25 | 4831   | 5045 | <p><u>Drilled 214'.</u> Ran electrical survey and microlog. Ran and cemented (5030') 4-1/2", 9.5# casing at 5040' with 150 sacks cement treated with 4% gel. Displaced with oil, final pressure 1800 psi. Released rig at 2:45 P.M. 9-25-58.</p> <p>Checked BOP daily<br/>Mud summary<br/>Wt. 9.1-9.8#/gal<br/>Vis. 41-65 sec<br/>Wl. 5.6-8.5 cc<br/>FC. 2/32"</p> <p>Contractor: Brinkerhoff Drilling Co.<br/>Drillers: J. Speaker<br/>E. Babcock<br/>W. Black</p> <p>Company Pusher: R. I. Alberts</p> |

| CONDITION AT BEGINNING OF PERIOD |      |    |             |           |
|----------------------------------|------|----|-------------|-----------|
| HOLE                             |      |    | CASING SIZE | DEPTH SET |
| SIZE                             | FROM | TO |             |           |
|                                  |      |    |             |           |
| DRILL PIPE SIZES                 |      |    |             |           |

CB.

C. Bremer

SIGNED

# DRILLING REPORT

FOR PERIOD ENDING

WELL NO. \_\_\_\_\_

Bisti

(FIELD)

San Juan, New Mexico

(COUNTY)

10-8-58

Sec. 11

(SECTION OR LEASE)

T25N

R12W

(TOWNSHIP OR RANGHO)

| DAY                | DEPTHS       |            | REMARKS                                                                                                                                                                                                                                                                                      |
|--------------------|--------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | FROM         | TO         |                                                                                                                                                                                                                                                                                              |
| 9-26               | 5045<br>5025 | TD<br>PBTD | Gun perforated four 1/2" bullets/ft. 4888-4926, 4956-4976, 4980-4996. Made 12 hour pressure survey.                                                                                                                                                                                          |
| 9-27               |              |            | Spotted 500 gal mud acid on perforations. Sand oil fractured with 50,000 gal crude and 1#/gal sand + 320 nylon core balls. Slight pressure increase after dropping 240 balls. Maximum pressure 3500 psi, minimum pressure 2600 psi average rate 34.6 bbls/min. Flushed with 160 bbls. crude. |
| 9-29               |              |            | Cleaned out from 4965-5025'. Bailed at 4996' for four hours - sand entry.                                                                                                                                                                                                                    |
| 9-30               |              |            | Ran tubing to 4880'. Ran pump and rods.                                                                                                                                                                                                                                                      |
| 10-1<br>to<br>10-7 |              |            | Pumped and recovered all load and frac oil, 1465 bbls.                                                                                                                                                                                                                                       |
| 10-8               |              |            | INITIAL PRODUCTION<br>Pumped (24hours), 303 B/D gross, 302 B/D<br>Clean, 122 MCF/D gas, GOR 400, cut 0.2%<br>Completed 10-8-58                                                                                                                                                               |

## CONDITION AT BEGINNING OF PERIOD

| HOLE              |      |      | CASING SIZE | DEPTH SET |
|-------------------|------|------|-------------|-----------|
| SIZE              | FROM | TO   |             |           |
| 12-1/4            | 0    | 115  | 8-5/8"      | 107'      |
| 7-7/8             | 115  | 5045 | 4-1/2"      | 5040'     |
| DRILL PIPE 4-1/2" |      |      |             |           |
| SIZES             |      |      |             |           |

C. Bremer

SIGNED