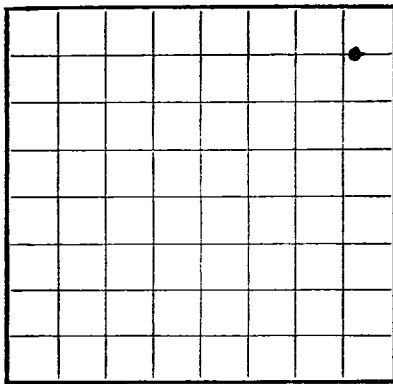
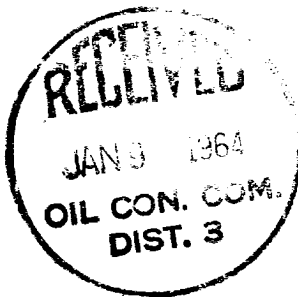




LOCATE WELL CORRECTLY

U. S. LAND OFFICE  
SERIAL NUMBER  
LEASE OR PERMIT TO PROSPECT  
**SF 079113**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company The Atlantic Refg. Co. Address Box 2197, Farmington, N. M.  
Lessor or Tract Atlantic Federal Field Wildcat State New Mexico  
Well No. 33-1 Sec. 33 T. 27N R. 12W Meridian NMPM County San Juan  
Location 660 ft. N of S. Line and 560 ft. E of E. Line of Sec. 33 Elevation 5830'  
(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 B. J. Gastain Title Drilg. & Prod. SupervisorDate January 6, 1964

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

Commenced drilling 12/10, 1963 Finished drilling 12/18, 1963

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from none to \_\_\_\_\_ 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 none to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Size casing                | Weight per foot | Threads per inch | Make   | Amount | Kind of shoe | Cut and pulled from | Perforated |     | Purpose |
|----------------------------|-----------------|------------------|--------|--------|--------------|---------------------|------------|-----|---------|
|                            |                 |                  |        |        |              |                     | From—      | To— |         |
| 10-3/4                     | 229.16          | 225              | 217.95 | 217.95 | 217.95       | 217.95              |            |     | Surface |
| HISTORY OF OIL OR GAS WELL |                 |                  |        |        |              |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing        | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|--------------------|-----------|------------------------|-------------|-------------|--------------------|
| 10-3/4             | 229.16    | 225                    | Pump & plug |             | Cement circulated  |
| P & A Record below |           |                        |             |             |                    |

## 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 surface feet to 5300' feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. P&A Gravity, °Bé. \_\_\_\_\_  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

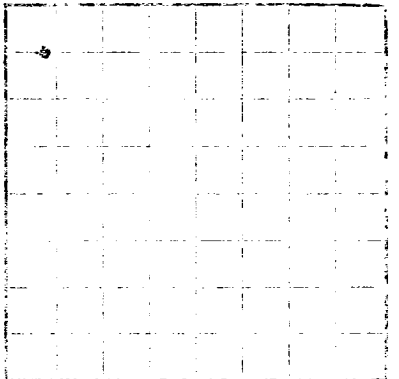
## EMPLOYEES

Brinkerhoff Drilling Co., Driller \_\_\_\_\_, Driller \_\_\_\_\_  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller \_\_\_\_\_

## FORMATION RECORD

| FROM—                             | TO—  | TOTAL FEET | FORMATION                                         |
|-----------------------------------|------|------------|---------------------------------------------------|
| 1181                              | 1365 | 184        | Pictured Cliffs                                   |
| 1365                              | 2075 | 710        | Lewis                                             |
| 2075                              | 3710 | 1635       | Mesaverde                                         |
| 3710                              | 3969 | 259        | Point Lookout                                     |
| 3969                              | 4853 | 884        | Mancom                                            |
| 4853                              | 5157 | 304        | Niobrara                                          |
| 5157                              | TD   | 143        | Carlile                                           |
| P & A RECORD                      |      |            |                                                   |
| 4925                              | 4800 |            | W/25 sz Class "C" cement plus 2% gel (1.67' 3/sk) |
| 4050                              | 3950 |            | 20 sz. "                                          |
| 2150                              | 2025 |            | 25 sz. "                                          |
| 1300                              | 1150 |            | 30 sz. "                                          |
| 240                               | 150  |            | 30 "                                              |
| 10 Sz. plug in top 10-3/4" casing |      |            |                                                   |

FORMATION RECORD—Continued



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company, \_\_\_\_\_ Address \_\_\_\_\_  
Person or Firm \_\_\_\_\_ Field \_\_\_\_\_  
Well No. \_\_\_\_\_ Section \_\_\_\_\_  
The information given in this log is a complete and correct record of the well and all work done thereon  
so far as can be determined from all available records.  
Date \_\_\_\_\_  
The company on this log is \_\_\_\_\_  
Location and direction of the well is \_\_\_\_\_  
\_\_\_\_\_

OIL OR GAS SANDS OR ZONES

(Denote by G)

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Casing \_\_\_\_\_  
Weight \_\_\_\_\_  
Length \_\_\_\_\_  
Kind of steel \_\_\_\_\_  
Cased and pulled from \_\_\_\_\_  
Pulled by \_\_\_\_\_

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 "staggered" 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 burning.

HISTORY OF OIL OR GAS WELL

| MUDDING AND CEMENTING RECORD |            |                |                  |
|------------------------------|------------|----------------|------------------|
| Casing                       | Weight     | Length         | Kind of material |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
| PLUGS AND ADAPTERS           |            |                |                  |
| Adapter                      | Material   | Length         | Depth set        |
|                              |            |                |                  |
|                              |            |                |                  |
| SHOOTING RECORD              |            |                |                  |
| Size                         | Shell used | Explosive used | Depth and        |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
| TOOLS USED                   |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
| DATES                        |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
| EMPLOYEES                    |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
|                              |            |                |                  |
| FORMATION RECORD             |            |                |                  |
| FROM                         | TO         | TOTAL FEET     | FORMATION        |
| 100                          | 150        | 50             | Gravelly sand    |
| 150                          | 200        | 50             | Sand             |
| 200                          | 250        | 50             | Gravelly sand    |
| 250                          | 300        | 50             | Sand             |
| 300                          | 350        | 50             | Gravelly sand    |
| 350                          | 400        | 50             | Sand             |
| 400                          | 450        | 50             | Gravelly sand    |
| 450                          | 500        | 50             | Sand             |
| 500                          | 550        | 50             | Gravelly sand    |
| 550                          | 600        | 50             | Sand             |
| 600                          | 650        | 50             | Gravelly sand    |
| 650                          | 700        | 50             | Sand             |
| 700                          | 750        | 50             | Gravelly sand    |
| 750                          | 800        | 50             | Sand             |
| 800                          | 850        | 50             | Gravelly sand    |
| 850                          | 900        | 50             | Sand             |
| 900                          | 950        | 50             | Gravelly sand    |
| 950                          | 1000       | 50             | Sand             |
| 1000                         | 1050       | 50             | Gravelly sand    |
| 1050                         | 1100       | 50             | Sand             |
| 1100                         | 1150       | 50             | Gravelly sand    |
| 1150                         | 1200       | 50             | Sand             |
| 1200                         | 1250       | 50             | Gravelly sand    |
| 1250                         | 1300       | 50             | Sand             |
| 1300                         | 1350       | 50             | Gravelly sand    |
| 1350                         | 1400       | 50             | Sand             |
| 1400                         | 1450       | 50             | Gravelly sand    |
| 1450                         | 1500       | 50             | Sand             |
| 1500                         | 1550       | 50             | Gravelly sand    |
| 1550                         | 1600       | 50             | Sand             |
| 1600                         | 1650       | 50             | Gravelly sand    |
| 1650                         | 1700       | 50             | Sand             |
| 1700                         | 1750       | 50             | Gravelly sand    |
| 1750                         | 1800       | 50             | Sand             |
| 1800                         | 1850       | 50             | Gravelly sand    |
| 1850                         | 1900       | 50             | Sand             |
| 1900                         | 1950       | 50             | Gravelly sand    |
| 1950                         | 2000       | 50             | Sand             |
| 2000                         | 2050       | 50             | Gravelly sand    |
| 2050                         | 2100       | 50             | Sand             |
| 2100                         | 2150       | 50             | Gravelly sand    |
| 2150                         | 2200       | 50             | Sand             |
| 2200                         | 2250       | 50             | Gravelly sand    |
| 2250                         | 2300       | 50             | Sand             |
| 2300                         | 2350       | 50             | Gravelly sand    |
| 2350                         | 2400       | 50             | Sand             |
| 2400                         | 2450       | 50             | Gravelly sand    |
| 2450                         | 2500       | 50             | Sand             |
| 2500                         | 2550       | 50             | Gravelly sand    |
| 2550                         | 2600       | 50             | Sand             |
| 2600                         | 2650       | 50             | Gravelly sand    |
| 2650                         | 2700       | 50             | Sand             |
| 2700                         | 2750       | 50             | Gravelly sand    |
| 2750                         | 2800       | 50             | Sand             |
| 2800                         | 2850       | 50             | Gravelly sand    |
| 2850                         | 2900       | 50             | Sand             |
| 2900                         | 2950       | 50             | Gravelly sand    |
| 2950                         | 3000       | 50             | Sand             |
| 3000                         | 3050       | 50             | Gravelly sand    |
| 3050                         | 3100       | 50             | Sand             |
| 3100                         | 3150       | 50             | Gravelly sand    |
| 3150                         | 3200       | 50             | Sand             |
| 3200                         | 3250       | 50             | Gravelly sand    |
| 3250                         | 3300       | 50             | Sand             |
| 3300                         | 3350       | 50             | Gravelly sand    |
| 3350                         | 3400       | 50             | Sand             |
| 3400                         | 3450       | 50             | Gravelly sand    |
| 3450                         | 3500       | 50             | Sand             |
| 3500                         | 3550       | 50             | Gravelly sand    |
| 3550                         | 3600       | 50             | Sand             |
| 3600                         | 3650       | 50             | Gravelly sand    |
| 3650                         | 3700       | 50             | Sand             |
| 3700                         | 3750       | 50             | Gravelly sand    |
| 3750                         | 3800       | 50             | Sand             |
| 3800                         | 3850       | 50             | Gravelly sand    |
| 3850                         | 3900       | 50             | Sand             |
| 3900                         | 3950       | 50             | Gravelly sand    |
| 3950                         | 4000       | 50             | Sand             |
| 4000                         | 4050       | 50             | Gravelly sand    |
| 4050                         | 4100       | 50             | Sand             |
| 4100                         | 4150       | 50             | Gravelly sand    |
| 4150                         | 4200       | 50             | Sand             |
| 4200                         | 4250       | 50             | Gravelly sand    |
| 4250                         | 4300       | 50             | Sand             |
| 4300                         | 4350       | 50             | Gravelly sand    |
| 4350                         | 4400       | 50             | Sand             |
| 4400                         | 4450       | 50             | Gravelly sand    |
| 4450                         | 4500       | 50             | Sand             |
| 4500                         | 4550       | 50             | Gravelly sand    |
| 4550                         | 4600       | 50             | Sand             |
| 4600                         | 4650       | 50             | Gravelly sand    |
| 4650                         | 4700       | 50             | Sand             |
| 4700                         | 4750       | 50             | Gravelly sand    |
| 4750                         | 4800       | 50             | Sand             |
| 4800                         | 4850       | 50             | Gravelly sand    |
| 4850                         | 4900       | 50             | Sand             |
| 4900                         | 4950       | 50             | Gravelly sand    |
| 4950                         | 5000       | 50             | Sand             |
| 5000                         | 5050       | 50             | Gravelly sand    |
| 5050                         | 5100       | 50             | Sand             |
| 5100                         | 5150       | 50             | Gravelly sand    |
| 5150                         | 5200       | 50             | Sand             |
| 5200                         | 5250       | 50             | Gravelly sand    |
| 5250                         | 5300       | 50             | Sand             |
| 5300                         | 5350       | 50             | Gravelly sand    |
| 5350                         | 5400       | 50             | Sand             |
| 5400                         | 5450       | 50             | Gravelly sand    |
| 5450                         | 5500       | 50             | Sand             |
| 5500                         | 5550       | 50             | Gravelly sand    |
| 5550                         | 5600       | 50             | Sand             |
| 5600                         | 5650       | 50             | Gravelly sand    |
| 5650                         | 5700       | 50             | Sand             |
| 5700                         | 5750       | 50             | Gravelly sand    |
| 5750                         | 5800       | 50             | Sand             |
| 5800                         | 5850       | 50             | Gravelly sand    |
| 5850                         | 5900       | 50             | Sand             |
| 5900                         | 5950       | 50             | Gravelly sand    |
| 5950                         | 6000       | 50             | Sand             |
| 6000                         | 6050       | 50             | Gravelly sand    |
| 6050                         | 6100       | 50             | Sand             |
| 6100                         | 6150       | 50             | Gravelly sand    |
| 6150                         | 6200       | 50             | Sand             |
| 6200                         | 6250       | 50             | Gravelly sand    |
| 6250                         | 6300       | 50             | Sand             |
| 6300                         | 6350       | 50             | Gravelly sand    |
| 6350                         | 6400       | 50             | Sand             |
| 6400                         | 6450       | 50             | Gravelly sand    |
| 6450                         | 6500       | 50             | Sand             |
| 6500                         | 6550       | 50             | Gravelly sand    |
| 6550                         | 6600       | 50             | Sand             |
| 6600                         | 6650       | 50             | Gravelly sand    |
| 6650                         | 6700       | 50             | Sand             |
| 6700                         | 6750       | 50             | Gravelly sand    |
| 6750                         | 6800       | 50             | Sand             |
| 6800                         | 6850       | 50             | Gravelly sand    |
| 6850                         | 6900       | 50             | Sand             |
| 6900                         | 6950       | 50             | Gravelly sand    |
| 6950                         | 7000       | 50             | Sand             |
| 7000                         | 7050       | 50             | Gravelly sand    |
| 7050                         | 7100       | 50             | Sand             |
| 7100                         | 7150       | 50             | Gravelly sand    |
| 7150                         | 7200       | 50             | Sand             |
| 7200                         | 7250       | 50             | Gravelly sand    |
| 7250                         | 7300       | 50             | Sand             |
| 7300                         | 7350       | 50             | Gravelly sand    |
| 7350                         | 7400       | 50             | Sand             |
| 7400                         | 7450       | 50             | Gravelly sand    |
| 7450                         | 7500       | 50             | Sand             |
| 7500                         | 7550       | 50             | Gravelly sand    |
| 7550                         | 7600       | 50             | Sand             |
| 7600                         | 7650       | 50             | Gravelly sand    |
| 7650                         | 7700       | 50             | Sand             |
| 7700                         | 7750       | 50             | Gravelly sand    |
| 7750                         | 7800       | 50             | Sand             |
| 7800                         | 7850       | 50             | Gravelly sand    |
| 7850                         | 7900       | 50             | Sand             |
| 7900                         | 7950       | 50             | Gravelly sand    |
| 7950                         | 8000       | 50             | Sand             |
| 8000                         | 8050       | 50             | Gravelly sand    |
| 8050                         | 8100       | 50             | Sand             |
| 8100                         | 8150       | 50             | Gravelly sand    |
| 8150                         | 8200       | 50             | Sand             |
| 8200                         | 8250       | 50             | Gravelly sand    |
| 8250                         | 8300       | 50             | Sand             |
| 8300                         | 8350       | 50             | Gravelly sand    |
| 8350                         | 8400       | 50             | Sand             |
| 8400                         | 8450       | 50             | Gravelly sand    |
| 8450                         | 8500       | 50             | Sand             |
| 8500                         | 8550       | 50             | Gravelly sand    |
| 8550                         | 8600       | 50             | Sand             |
| 8600                         | 8650       | 50             | Gravelly sand    |
| 8650                         | 8700       | 50             | Sand             |
| 8700                         | 8750       | 50             | Gravelly sand    |
| 8750                         | 8800       | 50             | Sand             |
| 8800                         | 8850       | 50             | Gravelly sand    |
| 8850                         | 8900       | 50             | Sand             |
| 8900                         | 8950       | 50             | Gravelly sand    |
| 8950                         | 9000       | 50             | Sand             |
| 9000                         | 9050       | 50             | Gravelly sand    |
| 9050                         | 9100       | 50             | Sand             |
| 9100                         | 9150       | 50             | Gravelly sand    |
| 9150                         | 9200       | 50             | Sand             |
| 9200                         | 9250       | 50             | Gravelly sand    |
| 9250                         | 9300       | 50             | Sand             |
| 9300                         | 9350       | 50             | Gravelly sand    |
| 9350                         | 9400       | 50             | Sand             |
| 9400                         | 9450       | 50             | Gravelly sand    |
| 9450                         | 9500       | 50             | Sand             |
| 9500                         | 9550       | 50             | Gravelly sand    |
| 9550                         | 9600       | 50             | Sand             |
| 9600                         | 9650       | 50             | Gravelly sand    |
| 9650                         | 9700       | 50             | Sand             |
| 9700                         | 9750       | 50             | Gravelly sand    |
| 9750                         | 9800       | 50             | Sand             |
| 9800                         | 9850       | 50             | Gravelly sand    |
| 9850                         | 9900       | 50             | Sand             |
| 9900                         | 9950       | 50             | Gravelly sand    |
| 9950                         | 10000      | 50             | Sand             |