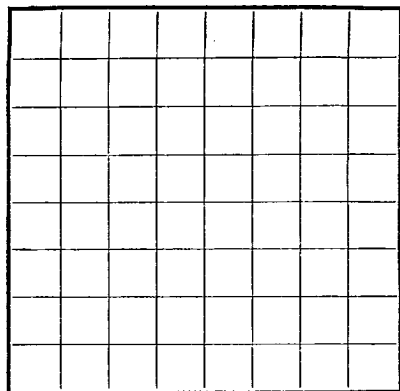


Las Cruces  
U. S. LAND OFFICE  
SERIAL NUMBER 069464-A  
LEASE OF PRIME TO PROJECT Federal 4-198



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

JAN 14 1970

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY  
Company E. A. Culbertson & Wallace W. Irwin & Odessa Equipment Co., Inc. Address Suite 202, P & L Bldg. 406 N. Mariefeld, Midland, Tex. East Benson-Yates New Mexico  
Lessor or Tract Federal Field NMPM State Eddy  
Well No. 4 Sec. 18 T. 19S R. 31E Meridian N County Elevation 3420  
Location 1980 ft. [N. of N Line and 1650 ft. [E. of E Line of Sec. 18  
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 [Signature] Title Agent, Odessa Equip. Co., Inc.  
Date January 8, 1970

The summary on this page is for the condition of the well at above date.  
Commenced drilling May 14, 1969 Finished drilling August 12, 1969

OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from 2277 to 2291 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 255 to 265 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— |            |
| 7"          | 16#             | 8                | Used | 565    | T. P.        |                     |            |     | Top Salt   |
| 4-1/2"      | 9 1/2#          | 8                | Used | 2250   | Float        |                     |            |     | Oil String |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |
|             |                 |                  |      |        |              |                     |            |     |            |

MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 7"          | 601       | 100                    | Halliburton |             | 50 sax             |
| 4 1/2"      | 2250      | 100                    | "           |             | 100 sax            |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

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 0 feet to 2312 feet, and from feet to feet

DATES

Put to producing, 19

The production for the first 24 hours was 55 barrels of fluid of which 10% was oil; % emulsion; 90% water; and % sediment. Gravity, °Bé. 33

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

O. E. Wood

EMPLOYEES

D. R. Turpin, Driller  
Driller  
Driller

FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                    |
|-------|------|------------|------------------------------|
| 0     | 50   | 50         | Sand & Shale                 |
| 50    | 80   | 30         | Red Sand                     |
| 80    | 175  | 95         | Sand & Shale                 |
| 175   | 255  | 80         | Redbed                       |
| 255   | 265  | 10         | Water Sand                   |
| 265   | 430  | 165        | Redbed                       |
| 430   | 475  | 45         | Anhyd., Gyp & Redbed         |
| 475   | 565  | 90         | Anhyd. & Lime                |
| 565   | 605  | 40         | Salt, Anhyd. & red shale     |
| 605   | 690  | 85         | Salt                         |
| 690   | 700  | 10         | Anhyd.                       |
| 700   | 855  | 155        | Salt                         |
| 855   | 1225 | 370        | Salt, some polynalite        |
| 1225  | 1580 | 355        | Salt                         |
| 1580  | 1680 | 100        | Salt                         |
| 1680  | 1700 | 20         | Anhydrite                    |
| 1700  | 1890 | 190        | Salt                         |
| 1890  | 2050 | 160        | Red, gray & white anhydrite  |
| 2050  | 2060 | 10         | Brown Lime, Anhyd.           |
| 2060  | 2090 | 30         | Lime, Anhyd. & Sand          |
| 2090  | 2145 | 55         | Anhyd. shale & sand          |
| 2145  | 2175 | 30         | Sand & Anhydrite             |
| 2175  | 2220 | 45         | Sand                         |
| 2220  | 2250 | 30         | Lime & Anhyd.                |
| 2250  | 2295 | 45         | Sd. & Lime, show oil 2277-91 |

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JAN 12 1970  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

| FROM-                        | TO-  | TOTAL FEET | FORMATION        |
|------------------------------|------|------------|------------------|
| 2280                         | 2305 | 25         | Sand & c. in oil |
| 2280                         | 2312 | 7          | Lite             |
| For action tops from samples |      |            |                  |
| Top and/or base              |      |            | 45               |
| Top split                    |      |            | 100              |
| Top base                     |      |            | 110              |
| Top base                     |      |            | 115              |
| Top base                     |      |            | 116              |
| Top base                     |      |            | 117              |
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| Top base                     |      |            | 198              |
| Top base                     |      |            | 199              |
| Top base                     |      |            | 200              |

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.

HISTORY OF OIL OR GAS WELL