

U. S. LAND OFFICE **Las Cruces**SERIAL NUMBER **032326(b)**

LEASE OR PERMIT TO PROSPECT

**Jack**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **R. Olsen** Address **Drawer Z, Jal, New Mexico**  
Lessor or Tract **Jack** Field **Langlie-Mattix** State **New Mexico**  
Well No. **3** Sec. **8** T. **24 S.** R. **37 E.** Meridian **N.M.P.M.** County **Lea**  
Location **660** ft. **N** of **N** Line and **1980** **E.** of **W** Line of **Sec. 8** Elevation **3297.70**  
(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

Date **February 22, 1955**Title **Superintendent**

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

Commenced drilling **January 29**, 19**55** Finished drilling **February 17**, 19**55**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2945** to **3190** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **3190** to **3440** No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from **3440** to **3562** No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ 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— |                   |
| <b>8-5/8</b> | <b>23#</b>      | <b>8</b>         | <b>J&amp;L</b> | <b>297'</b>  | <b>HOWCO</b> |                     |            |     | <b>surface</b>    |
| <b>5-1/2</b> | <b>15#</b>      | <b>8</b>         | <b>J&amp;L</b> | <b>3420'</b> | <b>HOWCO</b> |                     |            |     | <b>oil string</b> |

## MUDDING AND CEMENTING RECORD

| Size casing  | Where set    | Number sacks of cement               | Method used  | Mud gravity | Amount of mud used |
|--------------|--------------|--------------------------------------|--------------|-------------|--------------------|
| <b>8-5/8</b> | <b>297'</b>  | <b>225</b>                           | <b>HOWCO</b> |             |                    |
| <b>5-1/2</b> | <b>3420'</b> | <b>200 at shoe</b>                   | <b>HOWCO</b> |             |                    |
|              |              | <b>100 2-stage tool set at 1170'</b> |              |             |                    |

## 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 |
|---------------------------------|------------|----------------|-----------------------------------------|------|------------|-------------------|
| <b>Sandfraced (Halliburton)</b> |            |                | <b>10,000 gallons</b>                   |      |            |                   |
|                                 |            |                | <b>10,000# sand from 3424' to 3562'</b> |      |            |                   |

## TOOLS USED

Rotary tools were used from **0** feet to **3562** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_, 19\_\_\_\_ Put to producing **February 18**, 19**55**  
The production for the first **7 1/2** hours was **154** barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_%  
emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. 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

**Arthur Stine**, Driller **R. S. Gaston**, Driller  
**Troy Nix**, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

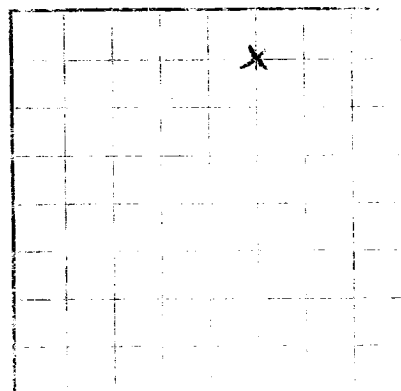
| FROM—       | TO—         | TOTAL FEET | FORMATION        |
|-------------|-------------|------------|------------------|
| <b>1155</b> | <b>1410</b> |            | <b>Anhydrite</b> |
| <b>1410</b> | <b>2650</b> |            | <b>Salt</b>      |
| <b>2945</b> | <b>3190</b> | <b>245</b> | <b>Yates</b>     |
| <b>3190</b> | <b>3440</b> | <b>250</b> | <b>7 River</b>   |
| <b>3440</b> | <b>3562</b> | <b>122</b> | <b>Queen</b>     |

DRILLER'S LOG  
TAKEN FROM DAILY DRLG. REPORTS

|             |             |             |                           |
|-------------|-------------|-------------|---------------------------|
| <b>0</b>    | <b>1170</b> | <b>1170</b> | <b>Red Bed.</b>           |
| <b>1170</b> | <b>1385</b> | <b>215</b>  | <b>Red Bed Anhydrite</b>  |
| <b>1385</b> | <b>1620</b> | <b>235</b>  | <b>Anhydrite</b>          |
| <b>1620</b> | <b>2370</b> | <b>350</b>  | <b>Salt and Anhydrite</b> |
| <b>2370</b> | <b>2509</b> | <b>139</b>  | <b>Anhydrite and Gyp</b>  |
| <b>2509</b> | <b>2641</b> | <b>132</b>  | <b>Anhydrite</b>          |
| <b>2641</b> | <b>2684</b> | <b>43</b>   | <b>Anhydrite and Gyp</b>  |
| <b>2684</b> | <b>2712</b> | <b>28</b>   | <b>Anhydrite</b>          |
| <b>2712</b> | <b>2802</b> | <b>90</b>   | <b>Anhydrite and Lime</b> |
| <b>2802</b> | <b>2815</b> | <b>13</b>   | <b>Anhydrite and Gyp</b>  |
| <b>2815</b> | <b>3563</b> | <b>748</b>  | <b>Lime</b>               |

R. OLSEN

By **D. J. Paterson**  
**D. J. Paterson, Tool**  
**Pusher for R. Olsen**



# LOG OF OIL OR GAS WELL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Company: W. J. O'Brien  
Location or Town: Jack  
Well No.: 3  
Section: 34  
T. 24 R. 33 S. 34  
County: New Mexico  
State: New Mexico  
Address: Lawyer, 631, New Mexico  
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: Superintendent  
Date: February 22, 1925

The summary on this page is for the condition of the well at above date.  
Commenced drilling: February 22, 1925  
Finished drilling: February 17, 1925

## OIL OR GAS SANDS OR ZONES

(Describe gas by G)

No. 1, from 3245 to 3190 No. 4, from 3190 to 3140  
No. 2, from 3190 to 3140 No. 5, from 3140 to 3090  
No. 3, from 3090 to 3040 No. 6, from 3040 to 2990

## IMPORTANT WATER SANDS

No. 1, from 3040 to 2990 No. 3, from 2990 to 2940  
No. 2, from 2940 to 2890 No. 4, from 2890 to 2840

## CASING RECORD

| Casing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Weight per foot | Threads per inch | Waste    | Amount      | Kind of shoe | Cut and pulled from | Perforated  | Purpose       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------|-------------|--------------|---------------------|-------------|---------------|
| <u>3 1/2"</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>23</u>       | <u>8</u>         | <u>1</u> | <u>5571</u> | <u>HOWCO</u> |                     | <u>From</u> | <u>amusee</u> |
| 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 charges. If bridges or bridges were put into test for 30 days, state kind of material used, position, and results of pumping, burning, or any other work done on the well. |                 |                  |          |             |              |                     |             |               |

## HISTORY OF OIL OR GAS WELL

### MUDDING AND CEMENTING RECORD

| Water       | Number sacks of cement | Mixed mud  | Mud gravity  | Amount of mud used |
|-------------|------------------------|------------|--------------|--------------------|
| <u>3420</u> | <u>300</u>             | <u>300</u> | <u>HOWCO</u> |                    |
| <u>3420</u> | <u>300</u>             | <u>300</u> | <u>HOWCO</u> |                    |
| <u>3420</u> | <u>300</u>             | <u>300</u> | <u>HOWCO</u> |                    |

### PLUGS AND ADAPTERS

| Adapter - 2 1/2" lateral | Length     | Depth set  |
|--------------------------|------------|------------|
| <u>100 S-8346</u>        | <u>100</u> | <u>100</u> |

### SHOOTING RECORD

| Shot used   | Explosive used | Quantity      | Date                     | Depth shot  | Depth cleaned out |
|-------------|----------------|---------------|--------------------------|-------------|-------------------|
| <u>3420</u> | <u>10,000</u>  | <u>10,000</u> | <u>February 17, 1925</u> | <u>3420</u> | <u>3420</u>       |

### TOOLS USED

Rotary tools were used from 3420 feet to 3420 feet and from 3420 feet to 3420 feet.  
Cable tools were used from 3420 feet to 3420 feet and from 3420 feet to 3420 feet.

### DATES

The production for the first 24 hours was 124 barrels of fluid of which 8 was oil; 8 was gas.  
It was well on its feet for 24 hours.  
Rock pressure, the period of 10 days.  
Gravimetric, 86.  
Int to producing February 17, 1925

### EMPLOYEES

| Position       | Name                 | Pay          |
|----------------|----------------------|--------------|
| <u>Driller</u> | <u>W. J. O'Brien</u> | <u>10.00</u> |
| <u>Helper</u>  | <u>W. J. O'Brien</u> | <u>10.00</u> |

### FORMATION RECORD

| Formation                | Depth      | Remarks |
|--------------------------|------------|---------|
| <u>Queen</u>             | <u>125</u> |         |
| <u>7 River</u>           | <u>250</u> |         |
| <u>Yacora</u>            | <u>325</u> |         |
| <u>Salt</u>              | <u>350</u> |         |
| <u>Anhydrite</u>         | <u>375</u> |         |
| <u>Red bed Anhydrite</u> | <u>400</u> |         |

### TAKEN FROM DAILY DRILL REPORTS

| Time        | 175        | 170        | 165        | 160        | 155        | 150        | 145        | 140        | 135        | 130        | 125        | 120        | 115        | 110        | 105        | 100        | 95        | 90        | 85        | 80        | 75        | 70        | 65        | 60        | 55        | 50        | 45        | 40        | 35        | 30        | 25        | 20        | 15        | 10        | 5        | 0        |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| <u>Time</u> | <u>175</u> | <u>170</u> | <u>165</u> | <u>160</u> | <u>155</u> | <u>150</u> | <u>145</u> | <u>140</u> | <u>135</u> | <u>130</u> | <u>125</u> | <u>120</u> | <u>115</u> | <u>110</u> | <u>105</u> | <u>100</u> | <u>95</u> | <u>90</u> | <u>85</u> | <u>80</u> | <u>75</u> | <u>70</u> | <u>65</u> | <u>60</u> | <u>55</u> | <u>50</u> | <u>45</u> | <u>40</u> | <u>35</u> | <u>30</u> | <u>25</u> | <u>20</u> | <u>15</u> | <u>10</u> | <u>5</u> | <u>0</u> |

W. J. O'Brien  
Driller for W. J. O'Brien  
W. J. O'Brien, Tool  
W. J. O'Brien, Tool