

## DEPARTMENT OF THE STATE GEOLOGIST

## WELL RECORD

Mail to State Geologist, Santa Fe, New Mexico, not more than ten days

after completion of well. Indicate questionable data by fol-

lowing it with (?). Submit in duplicate.

Company **LEONARD & LEVERS** Address **ROSWELL, New Mex.**  
Send correspondence to Address **ROSWELL, NEW MEX.**  
Well No. **L** in **NW 1/4** of Sec. **21**, T. **17S.**  
R. **29E.**, N. M. P. M. **Leonard & Levers** Oil Field **Eddy County** County.  
If State land the oil and gas lease is No. **711** Assignment No.  
If patented land the owner is Address  
The lessee is **Forest Levers** Address  
If not state or patented land, give status  
Drilling commenced **Sept-17-1929** 19 Drilling was completed **Jan-31-1930** 19  
Name of drilling contractor **Emery Carper** Address **Roswell-N.M.**  
Elevation above sea level at top of casing **3605** feet.  
The information given is to be kept confidential until 19

## OIL SANDS OR ZONES

No. 1, from **2283** to **2285-Gas** No. 4, from to  
No. 2, from **2632** to **2637-show-oil** No. 5, from to  
No. 3, from to No. 6, from to

## IMPORTANT WATER SANDS

No. 1, from to **None** No. 3, from to  
No. 2, from to No. 4, from to

## CASING RECORD

| SIZE         | WEIGHT<br>PER FOOT | THREADS<br>PER INCH | MAKE     | AMOUNT      | KIND OF<br>SHOE | CUT AND PULLED<br>FROM | PERFORATED |    | PURPOSE |
|--------------|--------------------|---------------------|----------|-------------|-----------------|------------------------|------------|----|---------|
|              |                    |                     |          |             |                 |                        | FROM       | TO |         |
| <b>8 1/2</b> | <b>28 lb.</b>      | <b>8</b>            | <b>?</b> | <b>2134</b> | <b>heavy</b>    |                        |            |    |         |
| <b>6-5/8</b> | <b>24 lb.</b>      | <b>8</b>            | <b>?</b> | <b>2466</b> | <b>heavy</b>    |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |
|              |                    |                     |          |             |                 |                        |            |    |         |

## MUDDING AND CEMENTING RECORD

| SIZE         | WHERE SET   | NO. SACKS OF CEMENT | METHODS USED | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|-------------|---------------------|--------------|-------------|--------------------|
| <b>8 1/2</b> | <b>2134</b> | <b>15</b>           |              |             |                    |
| <b>6-5/8</b> | <b>2466</b> | <b>10</b>           |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |
|              |             |                     |              |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material Length Depth Set  
**Filled with mud to 2700', run 300' lead wool, and topped with six sacks of cement.**

## 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 **surface** feet to **3507** feet, and from feet to feet

## PRODUCTION

Put to producing **Dec 6-1929**, 19  
The production of the first 24 hours was **Approx. One Million Eight Hundred Thousand**  
emulsion; % water; and % sediment. Gravity, Be  
If gas well, **increased to about Four million** gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in. **700**

## EMPLOYEES

**J. L. Nellis**, Driller  
**Frank Figner**, Driller

## FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this **31st**  
day of **January**, 19**30**.  
Notary Public  
My commission expires **May 9-1932**  
Name **Harry Leonard**  
Position  
Representing **Leonard & Levers**  
Company or Operator

## FORMATION RECORD

| DEPTH     | STR                                                                                                   | THICKNESS | DESCRIPTION |
|-----------|-------------------------------------------------------------------------------------------------------|-----------|-------------|
| 0-2       | soil                                                                                                  |           |             |
| 2-20      | caliche                                                                                               |           |             |
| 20-65     | red beds                                                                                              |           |             |
| 65-90     | gyp                                                                                                   |           |             |
| 90-120    | red beds                                                                                              |           |             |
| 120-150   | gyp                                                                                                   |           |             |
| 150-195   | gyp & red beds                                                                                        |           |             |
| 195-225   | gyp                                                                                                   |           |             |
| 225-240   | red beds & gyp                                                                                        |           |             |
| 240-295   | gyp & rock                                                                                            |           |             |
| 295-310   | salt                                                                                                  |           |             |
| 310-460   | salt                                                                                                  |           |             |
| 460-470   | anhydrite                                                                                             |           |             |
| 470-690   | salt                                                                                                  |           |             |
| 690-810   | anhydrite                                                                                             |           |             |
| 810-830   | salt & anhydrite                                                                                      |           |             |
| 830-850   | anhydrite & lime                                                                                      |           |             |
| 850-860   | anhydrite & sand                                                                                      |           |             |
| 860-895   | anhydrite                                                                                             |           |             |
| 895-910   | salt & red sand breaks                                                                                |           |             |
| 910-920   | red sand                                                                                              |           |             |
| 920-950   | anhydrite                                                                                             |           |             |
| 950-960   | lime & anhydrite                                                                                      |           |             |
| 960-975   | anhydrite & lime                                                                                      |           |             |
| 975-1025  | anhydrite & lime                                                                                      |           |             |
| 1025-1060 | lime & anhydrite                                                                                      |           |             |
| 1060-1075 | anhydrite                                                                                             |           |             |
| 1075-1100 | anhydrite & lime                                                                                      |           |             |
| 1100-1175 | anhydrite                                                                                             |           |             |
| 1175-1220 | anhydrite & lime - GAS 1225                                                                           |           |             |
| 1220-1230 | gas sand                                                                                              |           |             |
| 1230-1440 | anhydrite & lime                                                                                      |           |             |
| 1440-1485 | anhydrite                                                                                             |           |             |
| 1485-1495 | anhydrite & lime                                                                                      |           |             |
| 1495-1520 | anhydrite & sand                                                                                      |           |             |
| 1520-1535 | anhydrite & red shale                                                                                 |           |             |
| 1535-1545 | anhydrite & red shale                                                                                 |           |             |
| 1545-1590 | anhydrite                                                                                             |           |             |
| 1590-1660 | anhydrite & brown shale                                                                               |           |             |
| 1660-1720 | anhydrite & brown shale                                                                               |           |             |
| 1720-1740 | anhydrite & brown shale                                                                               |           |             |
| 1740-1748 | anhydrite & brown shale                                                                               |           |             |
| 1748-1760 | red sand                                                                                              |           |             |
| 1760-1788 | anhydrite & brown shale                                                                               |           |             |
| 1788-1850 | anhydrite & brown shale                                                                               |           |             |
| 1850-1880 | anhydrite & brown shale                                                                               |           |             |
| 1880-1900 | anhydrite                                                                                             |           |             |
| 1900-1920 | anhydrite & brown shale                                                                               |           |             |
| 1920-1990 | anhydrite & brown shale                                                                               |           |             |
| 1990-2060 | anhydrite & brown shale                                                                               |           |             |
| 2060-2106 | brown sandy lime                                                                                      |           |             |
| 2106-2110 | brown sandy lime                                                                                      |           |             |
| 2110-2142 | gray lime                                                                                             |           |             |
| 2142-2170 | gray lime                                                                                             |           |             |
| 2170-2177 | gray lime                                                                                             |           |             |
| 2177-2190 | sharp gray lime-SHOW GAS                                                                              |           |             |
| 2190-2200 | gray lime                                                                                             |           |             |
| 2200-2230 | gray lime                                                                                             |           |             |
| 2230-2262 | gray lime                                                                                             |           |             |
| 2262-2285 | gray lime                                                                                             |           |             |
| 2285-2295 | NICE GAS WELL - NO SAMPLE                                                                             |           |             |
| 2295-2295 | gray lime                                                                                             |           |             |
| 2295-2326 | lime                                                                                                  |           |             |
| 2326-2338 | lime                                                                                                  |           |             |
| 2338-2344 | sandy lime - SHOW OIL                                                                                 |           |             |
| 2344-2362 | gray lime                                                                                             |           |             |
| 2362-2390 | gray lime                                                                                             |           |             |
| 2390-2410 | gray lime                                                                                             |           |             |
| 2410-2415 | white lime                                                                                            |           |             |
| 2415-2445 | white lime                                                                                            |           |             |
| 2445-2455 | white lime                                                                                            |           |             |
| 2455-2466 | gray lime                                                                                             |           |             |
| 2466-2475 | gray lime                                                                                             |           |             |
| 2475-2488 | white lime                                                                                            |           |             |
| 2488-2510 | white lime                                                                                            |           |             |
| 2510-2520 | gray lime & green shale ?                                                                             |           |             |
| 2520-2525 | gray lime & bentonite ?                                                                               |           |             |
| 2525-2555 | gray lime & bentonite                                                                                 |           |             |
| 2555-2545 | white lime - GAS SHUT IN,<br>640# ROCK PRESSURE 3 1/2 HRS                                             |           |             |
| 2545-2553 | white lime                                                                                            |           |             |
| 2553-2565 | white lime                                                                                            |           |             |
| 2565-2585 | white lime                                                                                            |           |             |
| 2585-2603 | dark gray lime - SHOWING<br>SULPHUR GAS                                                               |           |             |
| 2603-2620 | gray lime                                                                                             |           |             |
| 2620-2642 | gray lime - SHOWING OIL<br>FROM 2620-2625 (corrected<br>measurement makes showing<br>from 2632-2637). |           |             |
| 2642-2666 | gray lime                                                                                             |           |             |
| 2666-2698 | gray lime                                                                                             |           |             |
| 2698-2717 | gray lime                                                                                             |           |             |
| 2717-2735 | gray lime - SHUT DOWN 24<br>HRS; HOLE MADE 4 BAILERS<br>OF OIL                                        |           |             |
| 2735-2755 | dark gray lime                                                                                        |           |             |
| 2755-2775 | dark gray lime                                                                                        |           |             |
| 2775-2795 | gray lime, dark                                                                                       |           |             |
| 2795-2801 | dark gray lime                                                                                        |           |             |
| 2801-2820 | brown lime                                                                                            |           |             |
| 2820-2834 | brown lime                                                                                            |           |             |
| 2834-2845 | gray lime - SHOWED SOME GAS<br>FROM 2820-2829                                                         |           |             |
| 2845-2862 | gray lime                                                                                             |           |             |
| 2862-2880 | dark gray lime                                                                                        |           |             |
| 2880-2910 | dark gray lime                                                                                        |           |             |
| 2910-2937 | dark gray lime d                                                                                      |           |             |
| 2937-2946 | light brown lime - SHOW-<br>ING SOME SAND & OIL 2939-<br>2932.                                        |           |             |
| 2946-2969 | dark gray lime                                                                                        |           |             |
| 2969-2997 | dark gray lime                                                                                        |           |             |
| 2997-3027 | gray lime                                                                                             |           |             |
| 3027-3052 | gray lime                                                                                             |           |             |
| 3052-3070 | gray lime                                                                                             |           |             |
| 3070-3078 | sand                                                                                                  |           |             |
| 3078-3083 | brown lime                                                                                            |           |             |
| 3083-3105 | dark gray lime - SOME GAS<br>FROM 3100-3105                                                           |           |             |
| 3105-3135 | dark gray lime                                                                                        |           |             |
| 3135-3165 | gray lime                                                                                             |           |             |
| 3165-3178 | gray lime                                                                                             |           |             |
| 3178-3198 | gray lime, sandy                                                                                      |           |             |
| 3198-3205 | gray lime, sandy                                                                                      |           |             |
| 3205-3233 | gray lime - LITTLE MORE<br>GAS 3222-3227                                                              |           |             |
| 3233-3255 | gray lime                                                                                             |           |             |
| 3255-3265 | gray lime, darker                                                                                     |           |             |
| 3265-3300 | dark gray lime                                                                                        |           |             |
| 3300-3312 | gray lime                                                                                             |           |             |
| 3312-3322 | gray lime, light                                                                                      |           |             |
| 3322-3333 | gray lime                                                                                             |           |             |
| 3333-3348 | dark gray lime                                                                                        |           |             |
| 3348-3360 | dark gray lime                                                                                        |           |             |
| 3360-3368 | dark gray lime                                                                                        |           |             |
| 3368-3385 | black lime                                                                                            |           |             |
| 3385-3398 | very dark gray lime                                                                                   |           |             |
| 3398-3406 | dark gray lime                                                                                        |           |             |
| 3406-3437 | gray lime                                                                                             |           |             |
| 3437-3456 | gray lime, hard & sharp                                                                               |           |             |
| 3456-3465 | light gray lime                                                                                       |           |             |
| 3465-3482 | light gray lime                                                                                       |           |             |
| 3482-3490 | dark gray lime                                                                                        |           |             |
| 3490-3500 | light gray lime                                                                                       |           |             |
| 3500-3507 | lime                                                                                                  |           |             |
|           | (TOTAL DEPTH)                                                                                         |           |             |