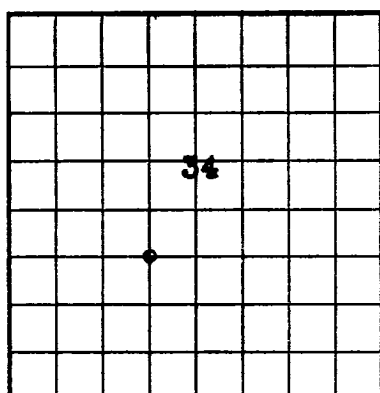


U. S. LAND OFFICE L.C.  
SERIAL NUMBER 058179  
LEASE OR PERMIT TO PROSPECT Leonard



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

Company Sanders Brothers Address Box 398, Artesia, N.M.  
Lessor or Tract Harry Leonard Field Wildcat State New Mexico  
Well No. 4 Sec. 34 T16S. R. 30E Meridian N.M.P.M. County Eddy  
Location 1980 ft. N of S Line and 1980 ft. E of W Line of Section 34 Elevation 3743

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: James H. Brown

Date \_\_\_\_\_ Title Bookkeeper

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

Commenced drilling **January 9** 19 **42** Finished drilling **March 3** 19 **42**

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

No. 1, from 2975 to 2983      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 **435** to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **2260** 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"                                    | 510'      | 50 Sacks               |             |             |                    |
| 7"                                        | 2290'     |                        |             |             |                    |
| 5 1/2"                                    | 2848'     | 100 Sacks              |             |             | 100 Sacks Mud      |
| (7" Casing pulled when 5 1/2" Casing set) |           |                        |             |             |                    |

## 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 |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            | N.G.           | 70 Qts.  | 2/26 | 2951-2973  | - 22'             |
|      |            | N.G.           | 30 Qts.  | 2/26 | 2973-2988  | - 15'             |
|      |            | N.G.           | 50 Qts.  | 2/26 | 2988-3004  | - 16'             |

## 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

Put to producing March 1, 1942

The production for the first 24 hours was 15 barrels of fluid of which        % was oil;        %  
On ~~Bailer test after shooting~~ 79 barrels oil in 24 hrs. thru  
emulsion,        % water, and        % sediment. Gravity,        Bc.  
open 2" tubing. Collaps gasoline per 1,000 cu. ft. of gas

**open 2" tubing.** If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

|                 |                       |           |                 |                    |           |
|-----------------|-----------------------|-----------|-----------------|--------------------|-----------|
| <del>W.R.</del> | <del>McCullough</del> | , Driller | <del>Art.</del> | <del>Gormley</del> | , Driller |
| <del>G.E.</del> | <del>Surrett</del>    | , Driller |                 |                    | , Driller |

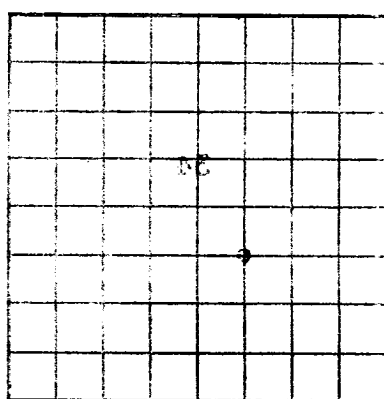
## FORMATION RECORD

| FROM | TO   | TOTAL FEET | FORMATION                   |
|------|------|------------|-----------------------------|
| 0    | 35   | 35         | Sand                        |
| 35   | 160  | 125        | Red Sand                    |
| 160  | 190  | 30         | Red Sand & Red Rock         |
| 190  | 255  | 65         | Red Rock                    |
| 255  | 350  | 95         | Red Sand                    |
| 350  | 420  | 70         | Anhydrite                   |
| 420  | 425  | 5          | Sand                        |
| 425  | 430  | 5          | Red Rock                    |
| 430  | 440  | 10         | Water                       |
| 440  | 480  | 40         | Red Rock                    |
| 480  | 490  | 10         | Anhydrite                   |
| 490  | 500  | 10         | Sand Water                  |
| 500  | 510  | 10         | Salt                        |
| 510  | 1190 | 680        | Salt                        |
| 1190 | 1220 | 30         | Anhydrite                   |
| 1220 | 1265 | 45         | Anhydrite & Red Shale       |
| 1265 | 1375 | 110        | Anhydrite                   |
| 1375 | 1455 | 80         | Anhydrite & Red Rock        |
| 1455 | 1515 | 60         | Anhydrite                   |
| 1515 | 1550 | 35         | Red Rock & Anhydrite        |
| 1550 | 1565 | 15         | Anhydrite                   |
| 1565 | 1590 | 25         | Gas                         |
| 1590 | 1990 | 400        | Anhydrite                   |
| 1990 | 2025 | 35         | Red Rock & Anhydrite Shells |

(OVER)

(OVER)

**FORMATION RECORD—Continued**



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
UNITED STATES

Company \_\_\_\_\_  
Lessor or Tract \_\_\_\_\_  
Well No. \_\_\_\_\_  
Location \_\_\_\_\_  
The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

Date \_\_\_\_\_  
Signed \_\_\_\_\_  
The summary on this page is for the condition of the well at above date.

OIL OR GAS SANDS OR ZONES

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

| Size casing | Weight per foot | Threads per inch | Measure | Amount | Kind of pipe | Cut and pulled from | Perforated | Purpose |
|-------------|-----------------|------------------|---------|--------|--------------|---------------------|------------|---------|
|             |                 |                  |         |        |              |                     | Top        |         |

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 are any changes made in the casing, state fully, and if any casing was "milked" 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.

MUDDING AND CEMENTING RECORD

| Size casing | Weight per foot | Threads per inch | Measure | Amount | Kind of pipe | Cut and pulled from | Perforated | Purpose |
|-------------|-----------------|------------------|---------|--------|--------------|---------------------|------------|---------|
|             |                 |                  |         |        |              |                     | Top        |         |

PLUGS AND ADAPTERS

| Size | Length | Material |
|------|--------|----------|
|      |        |          |

SHOOTING RECORD

| Size | Length | Material |
|------|--------|----------|
|      |        |          |

TOOLS USED

| Size | Length | Material |
|------|--------|----------|
|      |        |          |

DATES

| Size | Length | Material |
|------|--------|----------|
|      |        |          |

FORMATION RECORD—Continued

| FORMATION | DEPTH    | THICKNESS | DESCRIPTION |
|-----------|----------|-----------|-------------|
| Red Rock  | 0-10     | 10        | Red Rock    |
| Red Rock  | 10-20    | 10        | Red Rock    |
| Red Rock  | 20-30    | 10        | Red Rock    |
| Red Rock  | 30-40    | 10        | Red Rock    |
| Red Rock  | 40-50    | 10        | Red Rock    |
| Red Rock  | 50-60    | 10        | Red Rock    |
| Red Rock  | 60-70    | 10        | Red Rock    |
| Red Rock  | 70-80    | 10        | Red Rock    |
| Red Rock  | 80-90    | 10        | Red Rock    |
| Red Rock  | 90-100   | 10        | Red Rock    |
| Red Rock  | 100-110  | 10        | Red Rock    |
| Red Rock  | 110-120  | 10        | Red Rock    |
| Red Rock  | 120-130  | 10        | Red Rock    |
| Red Rock  | 130-140  | 10        | Red Rock    |
| Red Rock  | 140-150  | 10        | Red Rock    |
| Red Rock  | 150-160  | 10        | Red Rock    |
| Red Rock  | 160-170  | 10        | Red Rock    |
| Red Rock  | 170-180  | 10        | Red Rock    |
| Red Rock  | 180-190  | 10        | Red Rock    |
| Red Rock  | 190-200  | 10        | Red Rock    |
| Red Rock  | 200-210  | 10        | Red Rock    |
| Red Rock  | 210-220  | 10        | Red Rock    |
| Red Rock  | 220-230  | 10        | Red Rock    |
| Red Rock  | 230-240  | 10        | Red Rock    |
| Red Rock  | 240-250  | 10        | Red Rock    |
| Red Rock  | 250-260  | 10        | Red Rock    |
| Red Rock  | 260-270  | 10        | Red Rock    |
| Red Rock  | 270-280  | 10        | Red Rock    |
| Red Rock  | 280-290  | 10        | Red Rock    |
| Red Rock  | 290-300  | 10        | Red Rock    |
| Red Rock  | 300-310  | 10        | Red Rock    |
| Red Rock  | 310-320  | 10        | Red Rock    |
| Red Rock  | 320-330  | 10        | Red Rock    |
| Red Rock  | 330-340  | 10        | Red Rock    |
| Red Rock  | 340-350  | 10        | Red Rock    |
| Red Rock  | 350-360  | 10        | Red Rock    |
| Red Rock  | 360-370  | 10        | Red Rock    |
| Red Rock  | 370-380  | 10        | Red Rock    |
| Red Rock  | 380-390  | 10        | Red Rock    |
| Red Rock  | 390-400  | 10        | Red Rock    |
| Red Rock  | 400-410  | 10        | Red Rock    |
| Red Rock  | 410-420  | 10        | Red Rock    |
| Red Rock  | 420-430  | 10        | Red Rock    |
| Red Rock  | 430-440  | 10        | Red Rock    |
| Red Rock  | 440-450  | 10        | Red Rock    |
| Red Rock  | 450-460  | 10        | Red Rock    |
| Red Rock  | 460-470  | 10        | Red Rock    |
| Red Rock  | 470-480  | 10        | Red Rock    |
| Red Rock  | 480-490  | 10        | Red Rock    |
| Red Rock  | 490-500  | 10        | Red Rock    |
| Red Rock  | 500-510  | 10        | Red Rock    |
| Red Rock  | 510-520  | 10        | Red Rock    |
| Red Rock  | 520-530  | 10        | Red Rock    |
| Red Rock  | 530-540  | 10        | Red Rock    |
| Red Rock  | 540-550  | 10        | Red Rock    |
| Red Rock  | 550-560  | 10        | Red Rock    |
| Red Rock  | 560-570  | 10        | Red Rock    |
| Red Rock  | 570-580  | 10        | Red Rock    |
| Red Rock  | 580-590  | 10        | Red Rock    |
| Red Rock  | 590-600  | 10        | Red Rock    |
| Red Rock  | 600-610  | 10        | Red Rock    |
| Red Rock  | 610-620  | 10        | Red Rock    |
| Red Rock  | 620-630  | 10        | Red Rock    |
| Red Rock  | 630-640  | 10        | Red Rock    |
| Red Rock  | 640-650  | 10        | Red Rock    |
| Red Rock  | 650-660  | 10        | Red Rock    |
| Red Rock  | 660-670  | 10        | Red Rock    |
| Red Rock  | 670-680  | 10        | Red Rock    |
| Red Rock  | 680-690  | 10        | Red Rock    |
| Red Rock  | 690-700  | 10        | Red Rock    |
| Red Rock  | 700-710  | 10        | Red Rock    |
| Red Rock  | 710-720  | 10        | Red Rock    |
| Red Rock  | 720-730  | 10        | Red Rock    |
| Red Rock  | 730-740  | 10        | Red Rock    |
| Red Rock  | 740-750  | 10        | Red Rock    |
| Red Rock  | 750-760  | 10        | Red Rock    |
| Red Rock  | 760-770  | 10        | Red Rock    |
| Red Rock  | 770-780  | 10        | Red Rock    |
| Red Rock  | 780-790  | 10        | Red Rock    |
| Red Rock  | 790-800  | 10        | Red Rock    |
| Red Rock  | 800-810  | 10        | Red Rock    |
| Red Rock  | 810-820  | 10        | Red Rock    |
| Red Rock  | 820-830  | 10        | Red Rock    |
| Red Rock  | 830-840  | 10        | Red Rock    |
| Red Rock  | 840-850  | 10        | Red Rock    |
| Red Rock  | 850-860  | 10        | Red Rock    |
| Red Rock  | 860-870  | 10        | Red Rock    |
| Red Rock  | 870-880  | 10        | Red Rock    |
| Red Rock  | 880-890  | 10        | Red Rock    |
| Red Rock  | 890-900  | 10        | Red Rock    |
| Red Rock  | 900-910  | 10        | Red Rock    |
| Red Rock  | 910-920  | 10        | Red Rock    |
| Red Rock  | 920-930  | 10        | Red Rock    |
| Red Rock  | 930-940  | 10        | Red Rock    |
| Red Rock  | 940-950  | 10        | Red Rock    |
| Red Rock  | 950-960  | 10        | Red Rock    |
| Red Rock  | 960-970  | 10        | Red Rock    |
| Red Rock  | 970-980  | 10        | Red Rock    |
| Red Rock  | 980-990  | 10        | Red Rock    |
| Red Rock  | 990-1000 | 10        | Red Rock    |