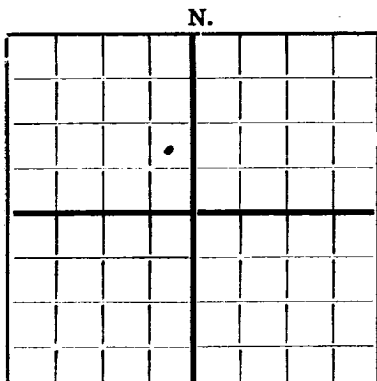


AREA 640 ACRES  
LOCATE WELL CORRECTLY

## DEPARTMENT OF THE STATE GEOLOGIST

NEW MEXICO SCHOOL OF MINES  
Socorro, New Mexico

## WELL RECORD

Mail to State Geologist, Socorro, New Mexico, not more than ten days  
after completion of well. Indicate questionable data by fol-  
lowing it with (?). Submit in duplicate.

Company The Midwest Refining Company Address Casper, Wyoming  
Send correspondence to The Midwest Ref'g. Company Address Hobbs, New Mexico  
Leech Well No. 24 in NW 1 of Sec. 15, T. 19S,  
R. 38E, N. M. P. M., Hobbs Oil Field Lea County.  
If State land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_  
If patented land the owner is Leonard & Effie Leech, Address Seminole, Texas  
The lessee is The Midwest Refining Company, Address Casper, Wyoming  
If not state or patented land, give status \_\_\_\_\_  
Drilling commenced July 6, 19 29 Drilling was completed Oct. 11, 19 29  
Name of drilling contractor Alamo Drilling Company, Address Amarillo, Texas  
Elevation above sea level at top of casing 3603 feet.  
The information given is to be kept confidential until \_\_\_\_\_ 19 \_\_\_\_.

## OIL SANDS OR ZONES

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| No. 1, from <u>G 2920</u> to <u>2985</u> | No. 4, from <u>0 4040</u> to <u>4060</u> |
| No. 2, from <u>0 2990</u> to <u>2995</u> | No. 5, from <u>0 4105</u> to <u>4109</u> |
| No. 3, from <u>G 3055</u> to <u>3080</u> | No. 6, from <u>0 4134</u> to <u>4138</u> |
|                                          | <u>0 4156</u> to <u>4166</u>             |

## IMPORTANT WATER SANDS

|                                     |                            |
|-------------------------------------|----------------------------|
| No. 1, from <u>63</u> to <u>129</u> | No. 3, from _____ to _____ |
| No. 2, from _____ to _____          | No. 4, from _____ to _____ |

## CASING RECORD

| SIZE           | WEIGHT<br>PER FOOT | THREADS PER<br>INCH | MAKE          | AMOUNT         | KIND OF<br>SHOE | CUT AND PULLED<br>FROM | PERFORATED |    | PURPOSE               |
|----------------|--------------------|---------------------|---------------|----------------|-----------------|------------------------|------------|----|-----------------------|
|                |                    |                     |               |                |                 |                        | FROM       | TO |                       |
| <u>15 1/2"</u> | <u>70#</u>         | <u>8</u>            | <u>YGST</u>   | <u>299' 9"</u> | <u>Plain</u>    |                        |            |    | <u>Water shut-off</u> |
| <u>10 3/4"</u> | <u>45 1/2#</u>     | <u>8</u>            | <u>Nat'l.</u> | <u>2854'</u>   | <u>"</u>        |                        |            |    | <u>Protect salt</u>   |
| <u>8 5/8"</u>  | <u>36#</u>         | <u>10</u>           | <u>"</u>      | <u>4080'</u>   | <u>"</u>        |                        |            |    | <u>Oil string</u>     |
|                |                    |                     |               |                |                 |                        |            |    |                       |
|                |                    |                     |               |                |                 |                        |            |    |                       |
|                |                    |                     |               |                |                 |                        |            |    |                       |
|                |                    |                     |               |                |                 |                        |            |    |                       |

## MUDDING AND CEMENTING RECORD

| SIZE           | WHERE SET      | No. SACKS OF CEMENT | METHODS USED       | MUD GRAVITY | AMOUNT OF MUD USED |
|----------------|----------------|---------------------|--------------------|-------------|--------------------|
| <u>15 1/2"</u> | <u>299' 9"</u> | <u>Seventy five</u> | <u>Halliburton</u> |             |                    |
| <u>10 3/4"</u> | <u>2854'</u>   | <u>Five hundred</u> | <u>"</u>           |             |                    |
| <u>8 5/8"</u>  | <u>4080'</u>   | <u>One hundred</u>  | <u>"</u>           |             |                    |
|                |                |                     |                    |             |                    |
|                |                |                     |                    |             |                    |
|                |                |                     |                    |             |                    |

## 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 2854 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 2854 feet to 4166 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## PRODUCTION

Put to producing Oct. 2, 19 29  
The production for the first 24 hours was 890 barrels of fluid of which 100 % was oil; \_\_\_\_\_ %  
emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, Be. 33  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

Alamo Drilling Company, Driller Contractors, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, 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 21st  
day of October, 19 29 Name Jess Sartin  
Edward Dale Roberts Position Field Supt.  
Notary Public Representing The Midwest Refining Company  
My commission expires Nov 12 14 1930 Company or Operator

## FORMATION RECORD

| From | to   | Thickness<br>in Feet | Formation                              |
|------|------|----------------------|----------------------------------------|
| 0    | 45   | 45                   | Surface sand                           |
| 45   | 63   | 18                   | Lime shell                             |
| 63   | 129  | 66                   | Sand                                   |
| 129  | 136  | 7                    | Hard lime                              |
| 136  | 160  | 24                   | Red shale                              |
| 160  | 175  | 15                   | Red rock                               |
| 175  | 190  | 15                   | Sand                                   |
| 190  | 400  | 210                  | Red rock                               |
| 400  | 440  | 40                   | Broken sand                            |
| 440  | 833  | 393                  | Broken sand and red rock               |
| 833  | 977  | 144                  | Red rock, broken sand and lime shells  |
| 977  | 1117 | 140                  | Red rock and broken shells             |
| 1117 | 1122 | 5                    | Sandy lime                             |
| 1122 | 1150 | 28                   | Broken sand shells and red rock        |
| 1150 | 1193 | 43                   | Red rock                               |
| 1193 | 1296 | 103                  | Red rock and hard broken lime          |
| 1296 | 1332 | 36                   | Hard broken lime                       |
| 1332 | 1386 | 54                   | Hard lime, sandy                       |
| 1386 | 1431 | 45                   | Red beds and broken lime shells        |
| 1431 | 1472 | 41                   | Broken lime shells                     |
| 1472 | 1542 | 70                   | Broken shells and red beds             |
| 1542 | 1563 | 21                   | Broken anhydrite and sticky red beds   |
| 1563 | 1576 | 13                   | Anhydrite and gypsum                   |
| 1576 | 1621 | 45                   | Anhydrite and red shale                |
| 1621 | 1684 | 63                   | Anhydrite                              |
| 1684 | 1716 | 32                   | Anhydrite and salt                     |
| 1716 | 1724 | 8                    | Salt and broken anhydrite              |
| 1724 | 1749 | 25                   | Salt and anhydrite                     |
| 1749 | 1754 | 5                    | Hard anhydrite                         |
| 1754 | 1761 | 7                    | Anhydrite and red shale                |
| 1761 | 1834 | 73                   | Salt and streaky red shale             |
| 1834 | 1908 | 74                   | Salt, anhydrite and red shale          |
| 1908 | 1920 | 12                   | Hard anhydrite                         |
| 1920 | 1940 | 20                   | Salt and streaky anhydrite             |
| 1940 | 2094 | 154                  | Salt and hard anhydrite                |
| 2094 | 2160 | 66                   | Anhydrite, shale and pylohaylite       |
| 2160 | 2270 | 110                  | Salt, anhydrite, shale and pylohaylite |
| 2270 | 2378 | 108                  | Salt, potash and shale                 |
| 2378 | 2432 | 54                   | Anhydrite, salt and hard potash        |
| 2432 | 2507 | 75                   | Anhydrite and salt                     |
| 2507 | 2584 | 77                   | Salt, anhydrite and streaky shale      |
| 2584 | 2666 | 82                   | Salt and hard anhydrite                |
| 2666 | 2746 | 80                   | Hard anhydrite                         |
| 2746 | 2756 | 10                   | Hard anhydrite mixed with iron         |
| 2756 | 2770 | 14                   | Soft anhydrite                         |
| 2770 | 2780 | 10                   | Hard anhydrite                         |
| 2780 | 2792 | 12                   | Red shale                              |
| 2792 | 2803 | 11                   | Hard anhydrite                         |
| 2803 | 2815 | 12                   | Red shale                              |
| 2815 | 2827 | 12                   | Hard anhydrite                         |
| 2827 | 2836 | 9                    | Soft shale                             |
| 2836 | 2854 | 18                   | Hard anhydrite                         |
| 2854 | 2870 | 16                   | Anhydrite and red shale                |
| 2870 | 2880 | 10                   | Red shale                              |
| 2880 | 2895 | 15                   | Blue shale                             |
| 2895 | 2985 | 90                   | Lime                                   |
| 2985 | 2990 | 5                    | Blue shale                             |
| 2990 | 3030 | 40                   | Lime                                   |
| 3030 | 3035 | 5                    | Broken lime                            |
| 3035 | 3080 | 45                   | Lime                                   |
| 3080 | 3200 | 120                  | Broken lime                            |
| 3200 | 3240 | 40                   | Lime                                   |
| 3240 | 3250 | 10                   | Red shale                              |
| 3250 | 3350 | 100                  | Lime                                   |
| 3350 | 3360 | 10                   | Soft brown sand                        |
| 3360 | 3400 | 40                   | Lime                                   |
| 3400 | 3720 | 320                  | Broken lime                            |
| 3720 | 3860 | 140                  | Lime                                   |
| 3860 | 4025 | 165                  | Hard lime                              |
| 4025 | 4166 | 141                  | Lime                                   |