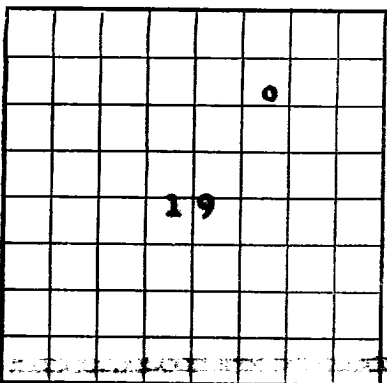


U. S. LAND OFFICE 065546 (a)  
SERIAL NUMBER Santa Fe  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1104 Burt Bldg., Dallas 1, Texas  
Lessor or Tract E. H. Newman Field Falcher-Luts State New Mexico  
Well No. 7-A Sec. 19 T. 28NR. 10W Meridian N.M.P.M. County San Juan  
Location 990 ft. {N.} of N. Line and 1650 ft. {E.} of E. Line of Section 19 Elevation 5927 G  
(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 Van Thompson

Date March 10, 1952 Title Manager, Exploration Dept.

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

Commenced drilling January 31, 19 52 Finished drilling February 20, 19 52

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

No. 1, from 1960' to 2024 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 \_\_\_\_\_ 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— |                   |
| <u>8-5/8"</u>             | <u>17.66</u>    |                  | <u>Galv.</u> | <u>22'5"</u>   |              |                     |            |     | <u>Surface</u>    |
| <u>5-1/2"</u>             | <u>14</u>       |                  |              | <u>1984'5"</u> |              |                     |            |     | <u>Production</u> |
| <u>1995' of 1" tubing</u> |                 |                  |              |                |              |                     |            |     |                   |

MUDDING AND CEMENTING RECORD

| Size casing   | Where set   | Number sacks of cement | Method used        | Mud gravity | Amount of mud used |
|---------------|-------------|------------------------|--------------------|-------------|--------------------|
| <u>8-5/8"</u> | <u>125'</u> | <u>75</u>              | <u>Halliburton</u> |             |                    |
| <u>5-1/2"</u> | <u>1967</u> | <u>75</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 |
|------|------------|------------------------|----------------|-------------|------------------|-------------------|
|      |            | <u>Nitro Glycerine</u> | <u>164 qts</u> | <u>2/17</u> | <u>1979-2047</u> | <u>2067</u>       |

TOOLS USED

Rotary tools were used from 0 feet to 2036 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from 2036 feet to 2067 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

February 20, 1952, 19 \_\_\_\_\_ Put to producing \_\_\_\_\_, 19 \_\_\_\_\_  
The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ %  
emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, °Bé. \_\_\_\_\_  
If gas well, cu. ft. per 24 hours 362 MCF Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. 431#

EMPLOYEES

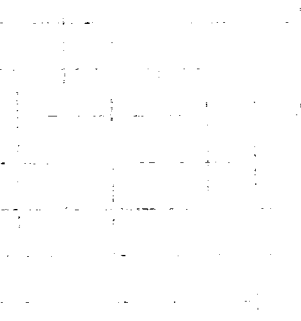
Gardner Bros. Drilling Company Driller Contractor for rotary drilling, Driller  
Southern Union Gas Company, Driller " " cable tool, Driller  
Mike Crowley Glenn Yeater

FORMATION RECORD

| FROM—                              | TO—              | TOTAL FEET | FORMATION                    |
|------------------------------------|------------------|------------|------------------------------|
| <u>0</u>                           | <u>855</u>       | <u>855</u> | <u>Sand and shale</u>        |
| <u>855</u>                         | <u>970</u>       | <u>115</u> | <u>Sand</u>                  |
| <u>970</u>                         | <u>990</u>       | <u>20</u>  | <u>Sand, shale and chert</u> |
| <u>990</u>                         | <u>1010</u>      | <u>20</u>  | <u>Shale</u>                 |
| <u>1010</u>                        | <u>1755</u>      | <u>745</u> | <u>Sand and shale</u>        |
| <u>1755</u>                        | <u>1923</u>      | <u>168</u> | <u>Sand, shale and coal</u>  |
| <u>1923</u>                        | <u>1945</u>      | <u>22</u>  | <u>Sand and shale</u>        |
| <u>1945</u>                        | <u>2036</u>      | <u>91</u>  | <u>Sand, shale and coal</u>  |
| <u>2036</u>                        | <u>2067 T.D.</u> | <u>31</u>  | <u>Sand and shale</u>        |
| <u>Top of Pictured Cliff 1960'</u> |                  |            |                              |

100-443887-100  
 100-443887-100  
 100-443887-100

0-7896-1000-2



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 "underpacked" 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 piers 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