

## NEW MEXICO OIL CONSERVATION COMMISSION

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Santa Fe, New Mexico

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Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (D). SUBMIT IN TRIPLICATE.

ARMA 640 ACRES

LOCATE WELL CORRECTLY

SOUTHERN UNION PRODUCTION COMPANY

1104 Hurt Building, Dallas, Texas

Company or Operator

Address

E. M. McGrath

Well No.

13

Address

03

T. 29 North

Lease

12 West

N. M. P. M.

Fulcher Basin

Field

San Juan

County

Well is 1650 feet South of the North line and 1650 feet West of the East line of Sec. 03

If State land the oil and gas lease is No. Assignment No.

If patented land the owner is E. M. McGrath Address Wichita Falls, Texas

If Government land the permittee is Address

The Lessee is Southern Union Production Company Address 1104 Hurt Bldg., Dallas, Texas

Drilling commenced March 4 1945 Drilling was completed April 8 1945

Name of drilling contractor Address

Elevation above sea level at top of casing 5845 feet

The information given is to be kept confidential until

## OIL SANDS OR ZONES

No. 1, from 815 to Show of Gas No. 4, from 2040 - Gas to

No. 2, from 865 to 880 " " No. 5, from to

No. 3, from 1928 to 1950 Gas No. 6, from to

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 375 - Water to feet

No. 2, from 425 to 435 feet

No. 3, from 500 - Water to feet

No. 4, from to feet

## CASING RECORD

Casing Size Weight Per Foot Thermads Per Inch

Casing Make To Amount Kind of Shoe Cut &amp; Filled From Perforated Purpose

13-3/8 50# O.D. 675' Regular All 03 Surface

8-5/8 32# O.D. 1460' Regular All 03 Drilling

7 20# O.D. 1850' Regular All 03 Drilling

5 14# O.D. 1928' Regular None 03 Producing

Casing Size Weight Per Foot Thermads Per Inch

Casing Make To Amount Kind of Shoe Cut &amp; Filled From Perforated Purpose

13-3/8 50# O.D. 675' Regular All 03 Surface

8-5/8 32# O.D. 1460' Regular All 03 Drilling

7 20# O.D. 1850' Regular All 03 Drilling

5 14# O.D. 1928' Regular None 03 Producing

0-98765-4321 6M

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHOD USED | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|----------------|-----------|---------------------|-------------|-------------|--------------------|
| 15"          | 13-3/8"        | 675'      |                     |             |             | 3 sacks Aquagel    |
| 10"          | 8-5/8"         | 1460'     |                     |             |             | 4 sacks Aquagel    |
| 8"           | 8-1/2"         | 1928'     | 50                  | Halliburton |             | 5 sacks Aquagel    |

PLUGS AND ADAPTERS 01 8802 8102

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## RECORD OF SHOOTING OR CHEMICAL TREATMENT

| SIZE | SHELL USED | EXPLOSIVE OR<br>CHEMICAL USED | QUANTITY | DATE | DEPTH SHOT<br>OR TREATED | DEPTH CLEANED OUT |
|------|------------|-------------------------------|----------|------|--------------------------|-------------------|
|      |            |                               |          |      |                          |                   |
|      |            |                               |          |      |                          |                   |
|      |            |                               |          |      |                          |                   |

**Results of shooting or chemical treatment**

### RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

### 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.

**PRODUCTION**

Put to producing\_\_\_\_\_19\_\_\_\_\_

The production of the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ %

emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, Be \_\_\_\_\_

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

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

**EMPLOYEES**

J. P. Smith EMPLOYEES Bill Powell

J. P. Smith EMPLOYEES Bill Powell

O. D. Noland, Driller Portner, Driller

\_\_\_\_\_  
Driller

G. D. Roland, Driller Portner, Driller

Driller \_\_\_\_\_ Driller \_\_\_\_\_

\_\_\_\_\_  
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.

Dallas, Texas

Subscribed and sworn to before me this 24th

April 48

day of \_\_\_\_\_ 19\_\_

**Notary Public**

LENE RAWLS  
Public Relations

My Commission expires June 1 1964

Place \_\_\_\_\_ Date \_\_\_\_\_

Place \_\_\_\_\_ Date \_\_\_\_\_

day of 19 Name Law Thompson

day of Feb 1942 Name Paul Thompson

Position \_\_\_\_\_

Position Southern Union Production Co.

Notary Public  
EILENE RAWLS  
Representing: ~~Walt Whit Rife, Dallas, Texas~~

LENE RAWLS  
Public Defender  
Representing  
1104 Durt Blvd., Dallas, Texas  
Communications Operator

My Commission expires My Commission Expires June 1, 1945 Address \_\_\_\_\_

## FORMATION RECORD

301-0 1210M

| FROM | TO   | THICKNESS<br>IN FEET | FORMATION                                                              |  |  |  |  |  |  |
|------|------|----------------------|------------------------------------------------------------------------|--|--|--|--|--|--|
| 0    | 25   | 25                   | Spudding                                                               |  |  |  |  |  |  |
| 25   | 40   | 15                   | Shale                                                                  |  |  |  |  |  |  |
| 40   | 95   | 55                   | Blue Shale                                                             |  |  |  |  |  |  |
| 95   | 125  | 30                   | Gray Shale - Lime Shells                                               |  |  |  |  |  |  |
| 125  | 180  | 55                   | Blue Shale                                                             |  |  |  |  |  |  |
| 180  | 200  | 20                   | Gray Shale                                                             |  |  |  |  |  |  |
| 200  | 250  | 50                   | Gray Sandy Shale                                                       |  |  |  |  |  |  |
| 250  | 300  | 50                   | Gray Sandy Shale                                                       |  |  |  |  |  |  |
| 300  | 355  | 55                   | Sandstone                                                              |  |  |  |  |  |  |
| 355  | 425  | 70                   | Sand - Water at 375' - 3 bailers                                       |  |  |  |  |  |  |
| 425  | 495  | 70                   | Sandstone - 5 bailers water                                            |  |  |  |  |  |  |
| 495  | 540  | 45                   | Sand                                                                   |  |  |  |  |  |  |
| 540  | 545  | 5                    | Shale - 20 bailers water at 500'                                       |  |  |  |  |  |  |
| 545  | 550  | 5                    | Shale                                                                  |  |  |  |  |  |  |
| 550  | 600  | 50                   | Sand and gravel                                                        |  |  |  |  |  |  |
| 600  | 640  | 40                   | Sand                                                                   |  |  |  |  |  |  |
| 640  | 662  | 22                   | Sand                                                                   |  |  |  |  |  |  |
| 662  | 670  | 8                    | Gray Shale                                                             |  |  |  |  |  |  |
| 670  | 675  | 5                    | Sandy Shale                                                            |  |  |  |  |  |  |
| 675  | 700  | 25                   | Gray Shale - Set 675' of 13-3/8" Csg. - 2 sacks<br>aquagel             |  |  |  |  |  |  |
| 700  | 705  | 5                    | Gray Shale                                                             |  |  |  |  |  |  |
| 705  | 720  | 15                   | Lime                                                                   |  |  |  |  |  |  |
| 720  | 770  | 50                   | Gray Shale                                                             |  |  |  |  |  |  |
| 770  | 805  | 35                   | Gray Shale                                                             |  |  |  |  |  |  |
| 805  | 845  | 40                   | Gray Sandy Shale - Gas Show at 815 feet                                |  |  |  |  |  |  |
| 845  | 865  | 20                   | Sandy Shale - Gray                                                     |  |  |  |  |  |  |
| 865  | 880  | 15                   | Sand - Show of Gas                                                     |  |  |  |  |  |  |
| 880  | 890  | 10                   | Slate                                                                  |  |  |  |  |  |  |
| 890  | 920  | 30                   | Sand - Gas                                                             |  |  |  |  |  |  |
| 920  | 930  | 10                   | Dark Slate                                                             |  |  |  |  |  |  |
| 930  | 955  | 25                   | Blue Shale                                                             |  |  |  |  |  |  |
| 955  | 1020 | 25                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1020 | 1040 | 20                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1040 | 1050 | 10                   | Sand - Dry                                                             |  |  |  |  |  |  |
| 1050 | 1070 | 20                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1070 | 1108 | 38                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1108 | 1175 | 67                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1175 | 1185 | 10                   | Sand                                                                   |  |  |  |  |  |  |
| 1185 | 1210 | 25                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1210 | 1280 | 70                   | Sand                                                                   |  |  |  |  |  |  |
| 1280 | 1320 | 40                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1320 | 1365 | 40                   | Sandy Shale                                                            |  |  |  |  |  |  |
| 1365 | 1420 | 55                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1420 | 1460 | 40                   | Brown Shale - Ran 1460' of 8-5/8" Csg. - 4 sacks<br>of aquagel         |  |  |  |  |  |  |
| 1460 | 1470 | 10                   | Gray Shale                                                             |  |  |  |  |  |  |
| 1470 | 1520 | 50                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1520 | 1575 | 55                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1575 | 1790 | 215                  | Dark Shale                                                             |  |  |  |  |  |  |
| 1790 | 1800 | 10                   | Lime and Sand                                                          |  |  |  |  |  |  |
| 1800 | 1840 | 40                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1840 | 1900 | 60                   | Dark Shale                                                             |  |  |  |  |  |  |
| 1900 | 1910 | 10                   | Coal - Set 1850' of 7" O.D. Csg.                                       |  |  |  |  |  |  |
| 1910 | 1928 | 18                   | Set 1928' of 5 1/2" O.D. Csg. with 50 sacks cement,<br>8 sacks aquagel |  |  |  |  |  |  |
| 1928 | 1950 | 22                   | Pulled 7-inch, 8 1/2" and 13-3/8" Csg.                                 |  |  |  |  |  |  |
| 1950 | 1960 | 10                   | Sand - Gas                                                             |  |  |  |  |  |  |
| 1960 | 1975 | 15                   | Sand                                                                   |  |  |  |  |  |  |
| 1975 | 1976 | 1                    | Sandy Shale                                                            |  |  |  |  |  |  |
| 1976 | 1979 | 3                    | Sand                                                                   |  |  |  |  |  |  |
| 1979 | 1994 | 15                   | Blue Shale                                                             |  |  |  |  |  |  |
| 1994 | 2003 | 9                    | Light Shale                                                            |  |  |  |  |  |  |
| 2003 | 2013 | 10                   | Sandy Gray Shale                                                       |  |  |  |  |  |  |
| 2013 | 2023 | 10                   | Sand                                                                   |  |  |  |  |  |  |
| 2023 | 2040 | 17                   | Sand and Shale                                                         |  |  |  |  |  |  |
| 2023 | 2040 | 17                   | Sandy Shale                                                            |  |  |  |  |  |  |