

U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **080517**

LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Southern Union Gas Company** Address **Burt Bldg., Dallas 1, Texas**  
Lessor or Tract **Payne** Field **Blanco** State **New Mexico**  
Well No. **1** Sec. **20** T. **32N** R. **10W** Meridian **N.M.P.M.** County **San Juan**  
Location **1525** ft. **N.** of **S** Line and **1690** ft. **E.** of **W** Line of **Section 20** Elevation **6033'**  
(Derriek 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

**G. B. Williams**Title **Engineer**Date **April 15, 1954**

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

Commenced drilling **February 14, 1954** Finished drilling **March 24, 1954**, 19

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4696 G** to **5280** 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— |                    |
| 10-3/4                     | 32.75           |                  | H 40 | 211    |              |                     |            |     | Surface Production |
| 7                          | 23 1/2          |                  | I 55 | 4722   |              |                     |            |     |                    |
| 2-3/4                      | 11 1/2          |                  | I 55 | 4722   |              |                     |            |     |                    |
| HISTORY OF OIL OR GAS WELL |                 |                  |      |        |              |                     |            |     |                    |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 10-3/4      | 222       | 100                    | Halliburton |             |                    |
| 7           | 4684      | 250                    | *           |             |                    |

## 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 |
|------|------------|-----------------|----------|---------|------------|-------------------|
|      |            | Nitro glycerine | 900 G    | 3/23/54 | 5303-5778  | to 5300'          |

## TOOLS USED

Rotary tools were used from **0** feet to **5300** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

**March 24, 1954**, 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 **4958 MCF/3h/** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. **1080#** — **SI-9 days**

## EMPLOYEES

**Dorman Oil & Drilling Co. Contractor** **N. B. Douglas**, Driller  
**T. A. Wilson**, Driller **C. W. Kimberling**, Driller

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION            |
|-------|------|------------|----------------------|
| 0     | 2470 | 2470       | Sand and shale       |
| 2470  | 2895 | 425        | Coal, shale and sand |
| 2895  | 4148 | 1253       | Sand and shale       |
| 4148  | 4434 | 286        | Sand                 |
| 4434  | 4570 | 34         | Shale                |
| 4570  | 4613 | 43         | Hard Sand            |
| 4613  | 4695 | 82         | Sand and shale       |
| 4695  | 5308 | 608        | Sand & Shale         |

Top Pictured Cliffs 2835  
" Cliff House 4696 - Pay  
" Point Lookout 5108 - Pay  
" Mancos 5280

PLEASE OR PERMIT TO PROCEED  
SERIAL NUMBER  
U.S. LAND OFFICE  
DATE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. There are no markings or text on the page.[illegible]

OIL OR GAS SANDS OR ZONES

(9) *vd* app storeQ :

|             |    |             |    |
|-------------|----|-------------|----|
| No. 1 from  | to | No. 1 from  | to |
| No. 2 from  | to | No. 2 from  | to |
| No. 3 from  | to | No. 3 from  | to |
| No. 4 from  | to | No. 4 from  | to |
| No. 5 from  | to | No. 5 from  | to |
| No. 6 from  | to | No. 6 from  | to |
| No. 7 from  | to | No. 7 from  | to |
| No. 8 from  | to | No. 8 from  | to |
| No. 9 from  | to | No. 9 from  | to |
| No. 10 from | to | No. 10 from | to |

**IMPORTANT WATER SANDS**

## CASING RECORD

| Weight<br>per foot | Thickness<br>per<br>foot | Make | Amount | Kind of shoe | Cut and pulled from | Perforated<br>From—<br>To— | Purpose |
|--------------------|--------------------------|------|--------|--------------|---------------------|----------------------------|---------|
|                    |                          |      |        |              |                     |                            |         |

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 "sidetracked" 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 dipping.

## HISTORY OF OIL OR GAS WELL

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MIDDLING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

[illegible]

## SHOOTING RECORD

| Serial No. | Particulars     | Amount | Debit | Credit | Balance |
|------------|-----------------|--------|-------|--------|---------|
| 1          | By Balance b/d  |        |       |        |         |
| 2          | To Cash         |        |       |        |         |
| 3          | To Bank         |        |       |        |         |
| 4          | To Sales        |        |       |        |         |
| 5          | To Other Income |        |       |        |         |
| 6          | By Cash         |        |       |        |         |
| 7          | By Bank         |        |       |        |         |
| 8          | By Sales        |        |       |        |         |
| 9          | By Other Income |        |       |        |         |
| 10         | To Cash         |        |       |        |         |
| 11         | To Bank         |        |       |        |         |
| 12         | To Sales        |        |       |        |         |
| 13         | To Other Income |        |       |        |         |
| 14         | By Cash         |        |       |        |         |
| 15         | By Bank         |        |       |        |         |
| 16         | By Sales        |        |       |        |         |
| 17         | By Other Income |        |       |        |         |
| 18         | To Cash         |        |       |        |         |
| 19         | To Bank         |        |       |        |         |
| 20         | To Sales        |        |       |        |         |
| 21         | To Other Income |        |       |        |         |
| 22         | By Cash         |        |       |        |         |
| 23         | By Bank         |        |       |        |         |
| 24         | By Sales        |        |       |        |         |
| 25         | By Other Income |        |       |        |         |
| 26         | To Cash         |        |       |        |         |
| 27         | To Bank         |        |       |        |         |
| 28         | To Sales        |        |       |        |         |
| 29         | To Other Income |        |       |        |         |
| 30         | By Cash         |        |       |        |         |
| 31         | By Bank         |        |       |        |         |
| 32         | By Sales        |        |       |        |         |
| 33         | By Other Income |        |       |        |         |
| 34         | To Cash         |        |       |        |         |
| 35         | To Bank         |        |       |        |         |
| 36         | To Sales        |        |       |        |         |
| 37         | To Other Income |        |       |        |         |
| 38         | By Cash         |        |       |        |         |
| 39         | By Bank         |        |       |        |         |
| 40         | By Sales        |        |       |        |         |
| 41         | By Other Income |        |       |        |         |
| 42         | To Cash         |        |       |        |         |
| 43         | To Bank         |        |       |        |         |
| 44         | To Sales        |        |       |        |         |
| 45         | To Other Income |        |       |        |         |
| 46         | By Cash         |        |       |        |         |
| 47         | By Bank         |        |       |        |         |
| 48         | By Sales        |        |       |        |         |
| 49         | By Other Income |        |       |        |         |
| 50         | To Cash         |        |       |        |         |
| 51         | To Bank         |        |       |        |         |
| 52         | To Sales        |        |       |        |         |
| 53         | To Other Income |        |       |        |         |
| 54         | By Cash         |        |       |        |         |
| 55         | By Bank         |        |       |        |         |
| 56         | By Sales        |        |       |        |         |
| 57         | By Other Income |        |       |        |         |
| 58         | To Cash         |        |       |        |         |
| 59         | To Bank         |        |       |        |         |
| 60         | To Sales        |        |       |        |         |
| 61         | To Other Income |        |       |        |         |
| 62         | By Cash         |        |       |        |         |
| 63         | By Bank         |        |       |        |         |
| 64         | By Sales        |        |       |        |         |
| 65         | By Other Income |        |       |        |         |
| 66         | To Cash         |        |       |        |         |
| 67         | To Bank         |        |       |        |         |
| 68         | To Sales        |        |       |        |         |
| 69         | To Other Income |        |       |        |         |
| 70         | By Cash         |        |       |        |         |
| 71         | By Bank         |        |       |        |         |
| 72         | By Sales        |        |       |        |         |
| 73         | By Other Income |        |       |        |         |
| 74         | To Cash         |        |       |        |         |
| 75         | To Bank         |        |       |        |         |
| 76         | To Sales        |        |       |        |         |
| 77         | To Other Income |        |       |        |         |
| 78         | By Cash         |        |       |        |         |
| 79         | By Bank         |        |       |        |         |
| 80         | By Sales        |        |       |        |         |
| 81         | By Other Income |        |       |        |         |
| 82         | To Cash         |        |       |        |         |
| 83         | To Bank         |        |       |        |         |
| 84         | To Sales        |        |       |        |         |
| 85         | To Other Income |        |       |        |         |
| 86         | By Cash         |        |       |        |         |
| 87         | By Bank         |        |       |        |         |
| 88         | By Sales        |        |       |        |         |
| 89         | By Other Income |        |       |        |         |
| 90         | To Cash         |        |       |        |         |
| 91         | To Bank         |        |       |        |         |
| 92         | To Sales        |        |       |        |         |
| 93         | To Other Income |        |       |        |         |
| 94         | By Cash         |        |       |        |         |
| 95         | By Bank         |        |       |        |         |

TOOLS USED

| DATE |    | TO |    | FROM |    |
|------|----|----|----|------|----|
| 1941 | 10 | 10 | 10 | 10   | 10 |
| 1941 | 11 | 11 | 11 | 11   | 11 |
| 1941 | 12 | 12 | 12 | 12   | 12 |
| 1941 | 13 | 13 | 13 | 13   | 13 |
| 1941 | 14 | 14 | 14 | 14   | 14 |
| 1941 | 15 | 15 | 15 | 15   | 15 |
| 1941 | 16 | 16 | 16 | 16   | 16 |
| 1941 | 17 | 17 | 17 | 17   | 17 |
| 1941 | 18 | 18 | 18 | 18   | 18 |
| 1941 | 19 | 19 | 19 | 19   | 19 |
| 1941 | 20 | 20 | 20 | 20   | 20 |
| 1941 | 21 | 21 | 21 | 21   | 21 |
| 1941 | 22 | 22 | 22 | 22   | 22 |
| 1941 | 23 | 23 | 23 | 23   | 23 |
| 1941 | 24 | 24 | 24 | 24   | 24 |
| 1941 | 25 | 25 | 25 | 25   | 25 |
| 1941 | 26 | 26 | 26 | 26   | 26 |
| 1941 | 27 | 27 | 27 | 27   | 27 |
| 1941 | 28 | 28 | 28 | 28   | 28 |
| 1941 | 29 | 29 | 29 | 29   | 29 |
| 1941 | 30 | 30 | 30 | 30   | 30 |
| 1941 | 31 | 31 | 31 | 31   | 31 |
| 1941 | 32 | 32 | 32 | 32   | 32 |
| 1941 | 33 | 33 | 33 | 33   | 33 |
| 1941 | 34 | 34 | 34 | 34   | 34 |
| 1941 | 35 | 35 | 35 | 35   | 35 |
| 1941 | 36 | 36 | 36 | 36   | 36 |
| 1941 | 37 | 37 | 37 | 37   | 37 |
| 1941 | 38 | 38 | 38 | 38   | 38 |
| 1941 | 39 | 39 | 39 | 39   | 39 |
| 1941 | 40 | 40 | 40 | 40   | 40 |
| 1941 | 41 | 41 | 41 | 41   | 41 |
| 1941 | 42 | 42 | 42 | 42   | 42 |
| 1941 | 43 | 43 | 43 | 43   | 43 |
| 1941 | 44 | 44 | 44 | 44   | 44 |
| 1941 | 45 | 45 | 45 | 45   | 45 |
| 1941 | 46 | 46 | 46 | 46   | 46 |
| 1941 | 47 | 47 | 47 | 47   | 47 |
| 1941 | 48 | 48 | 48 | 48   | 48 |
| 1941 | 49 | 49 | 49 | 49   | 49 |
| 1941 | 50 | 50 | 50 | 50   | 50 |
| 1941 | 51 | 51 | 51 | 51   | 51 |
| 1941 | 52 | 52 | 52 | 52   | 52 |
| 1941 | 53 | 53 | 53 | 53   | 53 |
| 1941 | 54 | 54 | 54 | 54   | 54 |
| 1941 | 55 | 55 | 55 | 55   | 55 |
| 1941 | 56 | 56 | 56 | 56   | 56 |
| 1941 | 57 | 57 | 57 | 57   | 57 |
| 1941 | 58 | 58 | 58 | 58   | 58 |
| 1941 | 59 | 59 | 59 | 59   | 59 |
| 1941 | 60 | 60 | 60 | 60   | 60 |
| 1941 | 61 | 61 | 61 | 61   | 61 |
| 1941 | 62 | 62 | 62 | 62   | 62 |
| 1941 | 63 | 63 | 63 | 63   | 63 |
| 1941 | 64 | 64 | 64 | 64   | 64 |
| 1941 | 65 | 65 | 65 | 65   | 65 |
| 1941 | 66 | 66 | 66 | 66   | 66 |
| 1941 | 67 | 67 | 67 | 67   | 67 |
| 1941 | 68 | 68 | 68 | 68   | 68 |
| 1941 | 69 | 69 | 69 | 69   | 69 |
| 1941 | 70 | 70 | 70 | 70   | 70 |
| 1941 | 71 | 71 | 71 | 71   | 71 |
| 1941 | 72 | 72 | 72 | 72   | 72 |
| 1941 | 73 | 73 | 73 | 73   | 73 |
| 1941 | 74 | 74 | 74 | 74   | 74 |
| 1941 | 75 | 75 | 75 | 75   | 75 |
| 1941 | 76 | 76 | 76 | 76   | 76 |
| 1941 | 77 | 77 | 77 | 77   | 77 |
| 1941 | 78 | 78 | 78 | 78   | 78 |
| 1941 | 79 | 79 | 79 | 79   | 79 |
| 1941 | 80 | 80 | 80 | 80   | 80 |

23740

|    |                                            |    |
|----|--------------------------------------------|----|
| 10 | But to producing                           | 10 |
| 9  | barrels of fluid of which 2 was oil; 2     | 9  |
| 8  | Gravity 86                                 | 8  |
| 7  | 1 gallon gasoline per 1,000 cu. ft. of gas | 7  |
| 6  |                                            | 6  |
| 5  |                                            | 5  |
| 4  |                                            | 4  |
| 3  |                                            | 3  |
| 2  |                                            | 2  |
| 1  |                                            | 1  |

EMPLOYEES

|         |         |
|---------|---------|
| Driller | Driller |
| Driller | Driller |

FORMATION RECORD

[illegible]

**FORMATION RECORD—Continued**