

F.Loc. 990/S; 830/W Elev. 6903GL Spd. 3/29/54 Comp. 5/5/54 TD. 3610 PB  
 Casing 9-5/8 188 W 150 Sx. Int. @ W Sx. Fr. 7 @ 3557 W 200 Sx. T. 2 @ 3575  
 Cg. Perf. Prod. Stim.

80F W/7000 GO, 5900# and 3557-3619

I.P. 4955 MCF/D After 3 Hrs. Sx. P. 104.8 PSI After 9 Days GOR Grav. 1st Del. 2/17/54 SUG

| TOPS            |      | NTD    | X       | Well Log                            | X | TEST DATA |      |      |     |     |      |     |
|-----------------|------|--------|---------|-------------------------------------|---|-----------|------|------|-----|-----|------|-----|
| Kirtland        |      | C-102  |         | Flat                                | ✓ | Schd.     | PC   | Q    | PW  | PD  | D    | AE  |
| Fruitland       |      | C-103  |         | Electric Log                        | X | 5/5/54    | 1000 | 1402 | 588 | 530 | 1566 | 855 |
| Pictured Cliffs | 3554 | C-104  | X       | C-110                               | X |           |      |      |     |     |      |     |
| Cliff House     |      | 4/2/54 | 4/17/54 | Remarks<br>DIT - 3/29/54<br><br>160 |   |           |      |      |     |     |      |     |
| Menefee         |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Point Lookout   |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Mancos          |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Tockto          |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Dakota          |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Morrison        |      |        |         |                                     |   |           |      |      |     |     |      |     |
| Entrada         |      |        |         |                                     |   |           |      |      |     |     |      |     |
| PCD             | 3359 |        |         |                                     |   |           |      |      |     |     |      |     |

PG RioArriba 14 T 26N R 4W U M Over SUG Loc Jicarilla 2-A

U. S. LAND OFFICE Jicarilla Tribal  
SERIAL NUMBER Contract #105  
LEASE OR PERMIT TO PROSPECT TR 198

A 10x10 grid with a point labeled 'o' at (2, 3) and a number '14' at (5, 5).

## LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

RECORDED  
FOR  
JUL 11 1954  
U. S. DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION

# LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Burt Building, Dallas, Texas  
Lessor or Tract Jicarilla Field Wildcat State New Mexico  
Well No. 2-A Sec. 14 T. 26N R. 4W Meridian N.M.P.M. County Rio Arriba  
Location 990 ft. <sup>[N.]</sup> of S Line and 830 ft. <sup>[E.]</sup> of W Line of Section 14 Elevation 6903 G  
<sub>(Derrick floor relative to sea level)</sub>

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.

Date May 21, 1954

A. M. Wiederkehr  
Title Manager Exploration Dept.

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

Commenced drilling 3-29, 1954 Finished drilling 4-19, 1954

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

No. 1, from 3554 to 3608 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— |            |
| 9-5/8"                     | 36#             |                  | H 40 | 198'   |              |                     |            |     | Surface    |
| 7"                         | 23#             |                  | J 55 | 3572'  |              |                     |            |     | Production |
| 2-3/4"                     | 80#             |                  | J 55 | 8000'  |              |                     |            |     | Production |
| 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 |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 9-5/8"      | 188'      | 150                    | Halliburton |             |                    |
| 7"          | 3557'     | 200                    | "           |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

## 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 |
|-----------|-----------------------------|----------------|----------|------|------------|-------------------|
| Sand-free | c 7,000 gallons of diesel - | 5900# sand     |          |      |            | 3610' T.D.        |

## TOOLS USED

Rotary tools were used from 0 feet to 3557 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Cable tools were used from 3557 feet to 3610 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## DATES

----- April 19 -----, 19 54 ----- 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 4955.51 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 1048# - SI 9/days

## EMPLOYEES

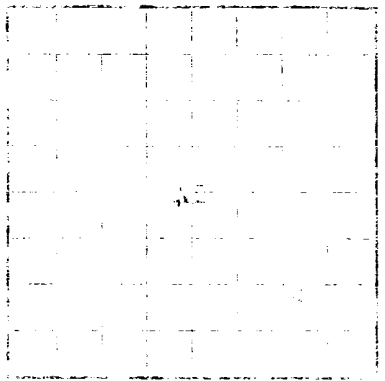
|              |         |             |         |
|--------------|---------|-------------|---------|
| Jack Brown   | Driller | N. B. Brown | Driller |
| C. A. Molloy | Driller | Jerry Sisk  | Driller |

## FORMATION RECORD

| FROM—             | TO—           | TOTAL FEET | FORMATION      |
|-------------------|---------------|------------|----------------|
| 0                 | 40            | 40         | Surface sand   |
| 40                | 3339          | 3295       | sand and shale |
| 3339              | 3557          | 218        | shale          |
| 3557              | 3610 TD       | 53         | sand           |
| TOPS:<br>Pictured | Cliffs - 3554 |            |                |

LOG OF OIL OR GAS WELL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



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 "shot" 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 flowing.

HISTORY OF OIL OR GAS WELL

| DATE | DESCRIPTION OF WORK | REMARKS                     |
|------|---------------------|-----------------------------|
| 1904 | Drilled 100 feet    | Found oil at 100 feet       |
| 1905 | Redrilled 50 feet   | Found gas at 50 feet        |
| 1906 | Installed pump      | Pumped 100 barrels per day  |
| 1907 | Installed casing    | Casing 10 inches diameter   |
| 1908 | Installed pump      | Pumped 200 barrels per day  |
| 1909 | Installed casing    | Casing 12 inches diameter   |
| 1910 | Installed pump      | Pumped 300 barrels per day  |
| 1911 | Installed casing    | Casing 14 inches diameter   |
| 1912 | Installed pump      | Pumped 400 barrels per day  |
| 1913 | Installed casing    | Casing 16 inches diameter   |
| 1914 | Installed pump      | Pumped 500 barrels per day  |
| 1915 | Installed casing    | Casing 18 inches diameter   |
| 1916 | Installed pump      | Pumped 600 barrels per day  |
| 1917 | Installed casing    | Casing 20 inches diameter   |
| 1918 | Installed pump      | Pumped 700 barrels per day  |
| 1919 | Installed casing    | Casing 22 inches diameter   |
| 1920 | Installed pump      | Pumped 800 barrels per day  |
| 1921 | Installed casing    | Casing 24 inches diameter   |
| 1922 | Installed pump      | Pumped 900 barrels per day  |
| 1923 | Installed casing    | Casing 26 inches diameter   |
| 1924 | Installed pump      | Pumped 1000 barrels per day |
| 1925 | Installed casing    | Casing 28 inches diameter   |
| 1926 | Installed pump      | Pumped 1100 barrels per day |
| 1927 | Installed casing    | Casing 30 inches diameter   |
| 1928 | Installed pump      | Pumped 1200 barrels per day |
| 1929 | Installed casing    | Casing 32 inches diameter   |
| 1930 | Installed pump      | Pumped 1300 barrels per day |
| 1931 | Installed casing    | Casing 34 inches diameter   |
| 1932 | Installed pump      | Pumped 1400 barrels per day |
| 1933 | Installed casing    | Casing 36 inches diameter   |
| 1934 | Installed pump      | Pumped 1500 barrels per day |
| 1935 | Installed casing    | Casing 38 inches diameter   |
| 1936 | Installed pump      | Pumped 1600 barrels per day |
| 1937 | Installed casing    | Casing 40 inches diameter   |
| 1938 | Installed pump      | Pumped 1700 barrels per day |
| 1939 | Installed casing    | Casing 42 inches diameter   |
| 1940 | Installed pump      | Pumped 1800 barrels per day |
| 1941 | Installed casing    | Casing 44 inches diameter   |
| 1942 | Installed pump      | Pumped 1900 barrels per day |
| 1943 | Installed casing    | Casing 46 inches diameter   |
| 1944 | Installed pump      | Pumped 2000 barrels per day |
| 1945 | Installed casing    | Casing 48 inches diameter   |
| 1946 | Installed pump      | Pumped 2100 barrels per day |
| 1947 | Installed casing    | Casing 50 inches diameter   |
| 1948 | Installed pump      | Pumped 2200 barrels per day |
| 1949 | Installed casing    | Casing 52 inches diameter   |
| 1950 | Installed pump      | Pumped 2300 barrels per day |
| 1951 | Installed casing    | Casing 54 inches diameter   |
| 1952 | Installed pump      | Pumped 2400 barrels per day |
| 1953 | Installed casing    | Casing 56 inches diameter   |
| 1954 | Installed pump      | Pumped 2500 barrels per day |
| 1955 | Installed casing    | Casing 58 inches diameter   |
| 1956 | Installed pump      | Pumped 2600 barrels per day |
| 1957 | Installed casing    | Casing 60 inches diameter   |
| 1958 | Installed pump      | Pumped 2700 barrels per day |
| 1959 | Installed casing    | Casing 62 inches diameter   |
| 1960 | Installed pump      | Pumped 2800 barrels per day |
| 1961 | Installed casing    | Casing 64 inches diameter   |
| 1962 | Installed pump      | Pumped 2900 barrels per day |
| 1963 | Installed casing    | Casing 66 inches diameter   |
| 1964 | Installed pump      | Pumped 3000 barrels per day |
| 1965 | Installed casing    | Casing 68 inches diameter   |
| 1966 | Installed pump      | Pumped 3100 barrels per day |
| 1967 | Installed casing    | Casing 70 inches diameter   |
| 1968 | Installed pump      | Pumped 3200 barrels per day |
| 1969 | Installed casing    | Casing 72 inches diameter   |
| 1970 | Installed pump      | Pumped 3300 barrels per day |
| 1971 | Installed casing    | Casing 74 inches diameter   |
| 1972 | Installed pump      | Pumped 3400 barrels per day |
| 1973 | Installed casing    | Casing 76 inches diameter   |
| 1974 | Installed pump      | Pumped 3500 barrels per day |
| 1975 | Installed casing    | Casing 78 inches diameter   |
| 1976 | Installed pump      | Pumped 3600 barrels per day |
| 1977 | Installed casing    | Casing 80 inches diameter   |
| 1978 | Installed pump      | Pumped 3700 barrels per day |
| 1979 | Installed casing    | Casing 82 inches diameter   |
| 1980 | Installed pump      | Pumped 3800 barrels per day |
| 1981 | Installed casing    | Casing 84 inches diameter   |
| 1982 | Installed pump      | Pumped 3900 barrels per day |
| 1983 | Installed casing    | Casing 86 inches diameter   |
| 1984 | Installed pump      | Pumped 4000 barrels per day |
| 1985 | Installed casing    | Casing 88 inches diameter   |
| 1986 | Installed pump      | Pumped 4100 barrels per day |
| 1987 | Installed casing    | Casing 90 inches diameter   |
| 1988 | Installed pump      | Pumped 4200 barrels per day |
| 1989 | Installed casing    | Casing 92 inches diameter   |
| 1990 | Installed pump      | Pumped 4300 barrels per day |
| 1991 | Installed casing    | Casing 94 inches diameter   |
| 1992 | Installed pump      | Pumped 4400 barrels per day |
| 1993 | Installed casing    | Casing 96 inches diameter   |
| 1994 | Installed pump      | Pumped 4500 barrels per day |
| 1995 | Installed casing    | Casing 98 inches diameter   |
| 1996 | Installed pump      | Pumped 4600 barrels per day |
| 1997 | Installed casing    | Casing 100 inches diameter  |
| 1998 | Installed pump      | Pumped 4700 barrels per day |
| 1999 | Installed casing    | Casing 102 inches diameter  |
| 2000 | Installed pump      | Pumped 4800 barrels per day |