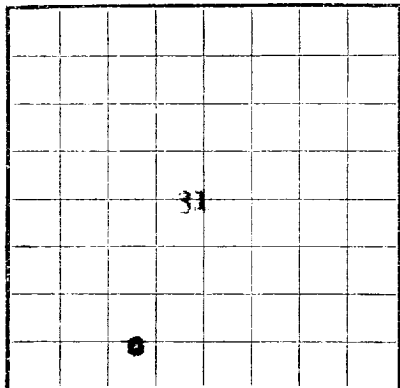




LOCATE WELL CORRECTLY

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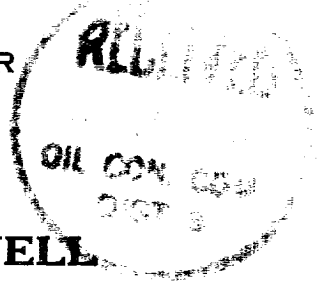
U. S. LAND OFFICE  
Contract 14-20-604-90  
SERIAL NUMBER  
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL



Company ~~Tennessee Gas Transmission Company~~ Address ~~P. O. Box 1772, Casper, Wyoming~~  
Lessor or Tract ~~Ute Mountain Tribe "B"~~ Field ~~Verde Gallup~~ State ~~New Mexico~~  
Well No. ~~7~~ Sec. ~~31~~ T. ~~31N~~ R. ~~15W~~ Meridian ~~NMPN~~ County ~~San Juan~~  
Location ~~660~~ ft. <sup>[N.]</sup> of ~~S~~ Line and ~~1680~~ ft. <sup>[E.]</sup> of ~~4~~ Line of Sec. ~~31~~ Elevation ~~5457.52'~~  
~~EX~~

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.

Original Signed By:

Signed ~~PATTERSON LAY~~

Date ~~July 29, 1957~~ Patterson Lay Title ~~District Superintendent~~

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

Commenced drilling ~~March 25,~~ 19~~57~~ Finished drilling ~~April 9,~~ 19~~57~~

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ~~1739'~~ to ~~1843'~~ 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 ~~450'~~ to ~~495'~~ 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— |         |
| 8 5/8"      | 24              | 8                | Lone Star | 89.10   | Bottom joint |                     |            |     |         |
| 5 1/2"      | 14              | 8                | CPAI      | 666.91  | Below        |                     |            |     |         |
| 5 1/2"      | 14              | 8                | S. S. S.  | 1077.62 |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |
|             |                 |                  |           |         |              |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 5/8"        | 92.84'    | 90 sz                  | One plug    |             |                    |
| 1 1/2"      | 1739.00'  | 100 sz                 | Two plug    |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

## 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 \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from ~~8~~ feet to ~~1740~~ feet, and from ~~1745~~ feet to ~~1843~~ feet

~~1740~~ ~~DATES~~

\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_

The production for the first ~~24~~ hours was \_\_\_\_\_ barrels of fluid of which ~~May 1%~~ was oil; ~~57%~~ emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. ~~16~~ Gravity, °Bé. ~~100~~ ~~0~~

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

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

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller

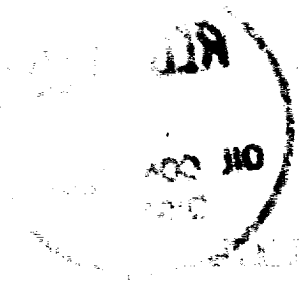
~~C. B. Guffey~~, Driller ~~J. H. Cremer~~, Driller

~~H. B. Barker~~

## FORMATION RECORD

| FROM—                      | TO—       | TOTAL FEET                | FORMATION                                                                                                                            |
|----------------------------|-----------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 0'                         | 8'        | 8'                        | Kelly bushing to ground level                                                                                                        |
| 8'                         | 520'      | 512'                      | Sand & Shale w/streaks of coal                                                                                                       |
| 520'                       | 1745'     | 1225'                     | Shale w/streaks of sand and occasional hard line stringers                                                                           |
| Core #1 - Gallup Formation |           |                           |                                                                                                                                      |
| 1745'                      | 1789'     | Recovered 44' as follows: |                                                                                                                                      |
| 1745'                      | 1765 1/2' | 20 1/2'                   | Black poker chip shale w/vertical fractures as follows: 1755-1756, 1759 1/2-1765 1/2                                                 |
| 1765 1/2'                  | 1770 1/2' | 5'                        | Shale, black, hard w/line partings and inclusions. 1 vertical fracture - 1765 1/2-1770 1/2, 2 vertical fractures - 1769 1/2-1770 1/2 |

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WASHINGTON, D.C.



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 "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 balling.

HISTORY OF OIL OR GAS WELL

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

| FROM-                      | TO-   | TOTAL FEET | FORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|-------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1770'                      | 1769' | 0'         | Shale, black, hard, sandy w/streaks of sandstone; sandstone very light, hard, white, light show 1770'-1771'. 2 vertical fractures 3/4" apart from 1771'-1774'. 1 vertical fracture 1769'-1774'. 1 vertical fracture 1764'-1765'. 1 vertical fracture 1765'-1766'.                                                                                                                                                                                                                                                                |
| Core #2 - Gallup Formation | 1791' | 2'         | Black shale w/lime stringers and inclusions. No show                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Core #3 - Gallup Formation | 1791' | 1843'      | Recovered 52' as follows:<br>Black hard poker chip shale w/partings of thin grained sandstone and lime fossils. No show<br>Sandstone w/shale laminations. Sandstone medium grained, hard, light, bleached oil. 1-6" streak shale 1809'-1810'. 1 vertical fracture 1804'-1806' and 1811'-1814'.<br>Shale, hard, sandy, w/lime to red w/ grained sand laminations. No show<br>A vertical fracture 1814'-1816'.<br>Laminated sand and shale, reworked, hard, light, sandy, show of oil. 1821-1823, 1827-1828, 1830-1831, 1835-1836. |
| 1804'                      | 1814' | 10'        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1791'                      | 1804' | 13'        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1814'                      | 1821' | 7'         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1821'                      | 1843' | 22'        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1821'                      | 1843' | 22'        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1770'                      | 1769' | 0'         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Spudded 12 1/4" hole 3/25/57 8:00 AM. Drilled 12 1/4" hole to 103'. Ran and cemented 89-101, 8 5/8" J-55 2 1/2" casing w/90 ex. Circulated cement. Casing landed at 99,84'. W.O.C. 24 hours. Pressure tested casing and B.O.P. w/ 500 psi. Pressure held. Drilled 7 7/8" to 1550'. Ran electric survey. Log tops: Mancos shale 520', Locito 175', estimated. Drilled 7 7/8" hole from 1550'-1740'. Ran 50 joints (1744.13) 5 1/2" J-55 2 1/2" casing. Landed casing at 1739'. Cemented w/100 ex. W.O.C. 24 hours. Pressure tested casing w/500 psi for 30 minutes. Pressure held. Drilled cement from 1694'-1740' and shale from 1740'-1745' w/cable tools. Ran 4 3/4" Diamond core head on rotary core barrel. Diamond cored from 1745'-1843'. Lost total of 648 lbs oil while coring. Sanding down casing by Howell w/100000 sand. 40,000 gallons oil w/1114 psi load oil. Recovered load oil 5-15-57. Ran 2' hole tubing to 1750'. POP 5-15-57. Pumped 16 HHO/24 hours.