

Indian Agency:  
Navajo Lse. No.  
14-20-603-2165

U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

RECEIVED  
SEP 27 1962  
OIL CON. COM.  
DIST. 3

Sec. 1

X

# LOG OF OIL OR GAS WELL

Company Continental Oil Company Address P. O. Box 3312, Durango, Colorado  
 Lessor or Tract Navajo - South Chaco Field Wildcat State New Mexico  
 Well No. 1 Sec. 1 T. 24N R. 17W Meridian NMPM County San Juan  
 Location 640 ft. N. of 3 Line and 1980 ft. E. of W Line of Sec. 1 Elevation 5395'  
(Derrick foot relative to sea level)

The information given herewith is a complete and correct record of the work done thereon so far as can be determined from all available records.

Signed \_\_\_\_\_

**ORIGINAL SIGNED BY**  
**FRED VAN MATRE**

Date September 26, 1962 Title District Engineer

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

Commenced drilling May 8, 1962 Finished drilling May 21, 1962

**OIL OR GAS SANDS OR ZONES**  
(Denote gas by (g))

No. 1, from \_\_\_\_\_ to \_\_\_\_\_      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 3233 to 3460      No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_      No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used  | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|--------------|-------------|--------------------|
| 13 3/8      | 162'      | 170                    | Displacement |             |                    |
| 5 1/2       | 3131      | 340                    | "            |             |                    |
|             |           |                        |              |             |                    |

## 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 0 feet to 4335 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

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

## DATES

|    |                  |    |
|----|------------------|----|
| 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 \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

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

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_ ~~Lohman-Johnson~~, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FORMATION RECORD |           |            |            |
|------------------|-----------|------------|------------|
| FROM—            | TO—       | TOTAL FEET | FORMATION  |
| 0                | 2315      | 2315       | Mass Verde |
| 2315             | 3233      | 918        | Nancoas    |
| 3233             | 3660      | 427        | Gallup     |
| 3660             | 4060      | 400        | Sauostee   |
| 4060             | 4130      | 70         | Greenhorn  |
| 4130             | 4172      | 42         | Graneros   |
| 4172             | 4308      | 136        | Bakota     |
| 4308             | 4335 T.D. | 27         | Harrison   |

**(OVER)**

[OVER]  
FOIA b(7) - (D) RECORD - CONFIDENTIAL

16-43094-5

USGS (3) NMCC (2) R/W HDM

Geography. Township, Range, Section, and other location data. The information given here is a complete and correct record of the well as far as it is determined from all available records. It is the responsibility of the driller to see that this information is correct and complete. The driller should also see that the well is properly located and that the logs are correctly filled out. The logs should be filled out as the well is drilled, and should be checked and corrected as necessary. The logs should be filled out in ink, and should be signed by the driller at the end of each day's work. The logs should be kept in a safe place, and should be made available to the proper authorities at all times.

| OIL OR GAS SAMPLES OR ZONES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |               |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|---------------|-------|
| No. 1, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 2, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 3, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 4, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 5, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 6, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 7, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 8, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 9, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 10, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | to    | to     | to    | to            | to    |
| IMPORTANT WATER SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |       |               |       |
| No. 1, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 2, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 3, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 4, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 5, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 6, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 7, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 8, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 9, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to    | to     | to    | to            | to    |
| No. 10, from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | to    | to     | to    | to            | to    |
| CASING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |        |       |               |       |
| Refer to supplementary well log, if necessary, for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |        |       |               |       |
| Casing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Size  | Weight | Brand | Kind of steel | Notes |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 1/2 | 10.5   | Acme  | API           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 1/2 | 10.5   | Acme  | API           |       |
| HISTORY OF OIL OR GAS WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |        |       |               |       |
| 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 attached or left in the well, give its size and location. If the well has been dynamited, give date, position, and results of pumping or bailing. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing. |       |        |       |               |       |

| MUDGING AND CEMENTING RECORD |       |                     |             |                    |                      |
|------------------------------|-------|---------------------|-------------|--------------------|----------------------|
| Run                          | Time  | Amount of cement    | Method used | Brand of cement    | Amount of water used |
| 1                            | 10:00 | 100 lbs.            | Hand        | Acme               | 100 gal.             |
| 2                            | 11:00 | 200 lbs.            | Machine     | Acme               | 200 gal.             |
| 3                            | 12:00 | 300 lbs.            | Machine     | Acme               | 300 gal.             |
| 4                            | 1:00  | 400 lbs.            | Machine     | Acme               | 400 gal.             |
| 5                            | 2:00  | 500 lbs.            | Machine     | Acme               | 500 gal.             |
| 6                            | 3:00  | 600 lbs.            | Machine     | Acme               | 600 gal.             |
| 7                            | 4:00  | 700 lbs.            | Machine     | Acme               | 700 gal.             |
| 8                            | 5:00  | 800 lbs.            | Machine     | Acme               | 800 gal.             |
| 9                            | 6:00  | 900 lbs.            | Machine     | Acme               | 900 gal.             |
| 10                           | 7:00  | 1000 lbs.           | Machine     | Acme               | 1000 gal.            |
| PLUGS AND ADAPTERS           |       |                     |             |                    |                      |
| Run                          | Time  | Amount of plug      | Method used | Brand of plug      | Amount of water used |
| 1                            | 10:00 | 100 lbs.            | Hand        | Acme               | 100 gal.             |
| 2                            | 11:00 | 200 lbs.            | Machine     | Acme               | 200 gal.             |
| 3                            | 12:00 | 300 lbs.            | Machine     | Acme               | 300 gal.             |
| 4                            | 1:00  | 400 lbs.            | Machine     | Acme               | 400 gal.             |
| 5                            | 2:00  | 500 lbs.            | Machine     | Acme               | 500 gal.             |
| 6                            | 3:00  | 600 lbs.            | Machine     | Acme               | 600 gal.             |
| 7                            | 4:00  | 700 lbs.            | Machine     | Acme               | 700 gal.             |
| 8                            | 5:00  | 800 lbs.            | Machine     | Acme               | 800 gal.             |
| 9                            | 6:00  | 900 lbs.            | Machine     | Acme               | 900 gal.             |
| 10                           | 7:00  | 1000 lbs.           | Machine     | Acme               | 1000 gal.            |
| SHOOTING RECORD              |       |                     |             |                    |                      |
| Run                          | Time  | Amount of shot      | Method used | Brand of shot      | Amount of water used |
| 1                            | 10:00 | 100 lbs.            | Hand        | Acme               | 100 gal.             |
| 2                            | 11:00 | 200 lbs.            | Machine     | Acme               | 200 gal.             |
| 3                            | 12:00 | 300 lbs.            | Machine     | Acme               | 300 gal.             |
| 4                            | 1:00  | 400 lbs.            | Machine     | Acme               | 400 gal.             |
| 5                            | 2:00  | 500 lbs.            | Machine     | Acme               | 500 gal.             |
| 6                            | 3:00  | 600 lbs.            | Machine     | Acme               | 600 gal.             |
| 7                            | 4:00  | 700 lbs.            | Machine     | Acme               | 700 gal.             |
| 8                            | 5:00  | 800 lbs.            | Machine     | Acme               | 800 gal.             |
| 9                            | 6:00  | 900 lbs.            | Machine     | Acme               | 900 gal.             |
| 10                           | 7:00  | 1000 lbs.           | Machine     | Acme               | 1000 gal.            |
| TOOLS USED                   |       |                     |             |                    |                      |
| Run                          | Time  | Amount of tool      | Method used | Brand of tool      | Amount of water used |
| 1                            | 10:00 | 100 lbs.            | Hand        | Acme               | 100 gal.             |
| 2                            | 11:00 | 200 lbs.            | Machine     | Acme               | 200 gal.             |
| 3                            | 12:00 | 300 lbs.            | Machine     | Acme               | 300 gal.             |
| 4                            | 1:00  | 400 lbs.            | Machine     | Acme               | 400 gal.             |
| 5                            | 2:00  | 500 lbs.            | Machine     | Acme               | 500 gal.             |
| 6                            | 3:00  | 600 lbs.            | Machine     | Acme               | 600 gal.             |
| 7                            | 4:00  | 700 lbs.            | Machine     | Acme               | 700 gal.             |
| 8                            | 5:00  | 800 lbs.            | Machine     | Acme               | 800 gal.             |
| 9                            | 6:00  | 900 lbs.            | Machine     | Acme               | 900 gal.             |
| 10                           | 7:00  | 1000 lbs.           | Machine     | Acme               | 1000 gal.            |
| FORMATION RECORD             |       |                     |             |                    |                      |
| Run                          | Time  | Amount of formation | Method used | Brand of formation | Amount of water used |
| 1                            | 10:00 | 100 lbs.            | Hand        | Acme               | 100 gal.             |
| 2                            | 11:00 | 200 lbs.            | Machine     | Acme               | 200 gal.             |
| 3                            | 12:00 | 300 lbs.            | Machine     | Acme               | 300 gal.             |
| 4                            | 1:00  | 400 lbs.            | Machine     | Acme               | 400 gal.             |
| 5                            | 2:00  | 500 lbs.            | Machine     | Acme               | 500 gal.             |
| 6                            | 3:00  | 600 lbs.            | Machine     | Acme               | 600 gal.             |
| 7                            | 4:00  | 700 lbs.            | Machine     | Acme               | 700 gal.             |
| 8                            | 5:00  | 800 lbs.            | Machine     | Acme               | 800 gal.             |
| 9                            | 6:00  | 900 lbs.            | Machine     | Acme               | 900 gal.             |
| 10                           | 7:00  | 1000 lbs.           | Machine     | Acme               | 1000 gal.            |