

RECEIVED  
DEC 1 1959  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICOBudget Bureau No. 42-R355.4.  
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER

LEASE OR PERMIT TO PROCEED

Unit Agreement No.

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

MEASURED - NOV. 1951

RECEIVED  
DEC 2 1959  
OIL CON. COM.  
DIST. 3

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Blackwood & Nichols Company Address P. O. Box 1237, Durango, Colorado  
Tract 21-A Field N. E. Kansas State New Mexico  
Well No. 98-13 Sec. 13 T. 31N R. 7W Meridian RMN County San Juan  
Location 925 ft. N of N Line and 990 ft. W of E Line of Section 13 Elevation 6524'  
(Derrick 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 by Delasso Loos Delasso LoosDate November 27, 1959Title Field Superintendent

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

Commenced drilling September 20, 19 59 Finished drilling November 3, 19 59

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3030' to 3330' (G) No. 4, from 5475' to 5710' (G)  
No. 2, from 3330' to 3570' (G) No. 5, from 5710' to 5905' (G)  
No. 3, from 5420' to 5475' (G) No. 6, from 7975' to 8127' (G)

## 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           | 8rd              | 6701 | 192'   | Tex Pat      |                     |            |     | Surface      |
| 7-5/8       | 26.40           | 8rd              | 6701 | 192'   | Tex Pat      |                     |            |     | Intermediate |
| 5-1/2       | 19.75           | 8rd              | 6701 | 192'   | Tex Pat      |                     |            |     | Intermediate |
| 2-3/8       | 4.8             | 10rd             | 6701 | 192'   | Tex Pat      |                     |            |     | Logging      |
| 1"          | 1.7             | 10rd             | 6701 | 192'   | Tex Pat      |                     |            |     | Logging      |

Above includes 16 Jts (497.05') of 2-3/8" 4.67 JTS 10rd Fiberglass coated tubing.

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used   |
|-------------|-----------|------------------------|-------------|-------------|----------------------|
| 10-3/4      | 205'      | 200                    | Pump & Plug | Water       | Cement circulated    |
| 7-5/8       | 3638'     | 295                    | " "         |             | Top cement at 1735'. |
| 5-1/2       | 8126'     | 655                    | " "         |             | Top cement at 2800'. |

## 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-water forced the Dakota Formation & Mesaverde Group thru casing perforations.

## TOOLS USED

Rotary tools were used from 0 feet to 8127 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

\_\_\_\_\_, 19\_\_\_\_ Put to producing Not connected Nov. 27, 19 59

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 6,270 MCF — Mesaverde Pitot Potential ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. 2,461 MCF — Dakota Pitot Potential

2594 PSI SI Tubing - Dakota Potential

1150 PSI SI Casing - Mesaverde Potential

## EMPLOYEES

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

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

## FORMATION RECORD

| FROM— | TO—   | TOTAL FEET | FORMATION |
|-------|-------|------------|-----------|
| 0'    | 1000' | 1000       | San Juan  |

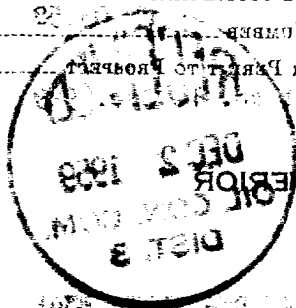
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FARMINGTON, NEW MEXICO

Budget Bureau No. 42-11350-4  
Approval expires 12-31-53

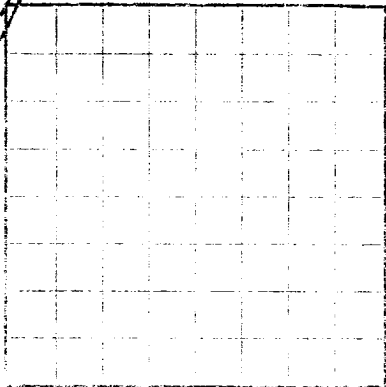
U.S. LAND OFFICE

SERIAL NUMBER

LEASE OR PATENT NO.



DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
UNITED STATES



LOCATE WELL CORRECTLY

# LOG OF OIL OR GAS WELL

Company: \_\_\_\_\_  
Location: \_\_\_\_\_  
State: \_\_\_\_\_  
County: \_\_\_\_\_  
Section: \_\_\_\_\_  
T. \_\_\_\_\_ R. \_\_\_\_\_ S. \_\_\_\_\_  
The information given herein is a complete and correct record of the well and all work done thereon  
as far as can be determined from all available records.  
Signed: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_  
The summary on this page is for the condition of the well at above date.  
Commenced drilling \_\_\_\_\_, 19\_\_\_\_. Finished drilling \_\_\_\_\_, 19\_\_\_\_.

## OIL OR GAS SANDS OR ZONES

(Denote one by (1))

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_  
No. 3 from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1 from \_\_\_\_\_ to \_\_\_\_\_  
No. 2 from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Depth | Weight | Length | Material | Remarks |
|-------|--------|--------|----------|---------|
| _____ | _____  | _____  | _____    | _____   |

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 therefor, 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, size, position, and number of shots. If plugs or bridges were put in test for water, state kind of material used, position, and results of pumping or bailing.

## HISTORY OF OIL OR GAS WELL

### MUDDING AND CEMENTING RECORD

| Depth | Material | Remarks |
|-------|----------|---------|
| _____ | _____    | _____   |

### PLUGS AND ADAPTERS

| Adapter | Plug  | Remarks |
|---------|-------|---------|
| _____   | _____ | _____   |

### SHOOTING RECORD

| Size  | Shot used | Explosive used | Quantity | Date  | Depth shot | Length of hole |
|-------|-----------|----------------|----------|-------|------------|----------------|
| _____ | _____     | _____          | _____    | _____ | _____      | _____          |

### TOOLS USED

Rotary tools were used from \_\_\_\_\_ foot to \_\_\_\_\_ foot.  
Cable tools were used from \_\_\_\_\_ foot to \_\_\_\_\_ foot.

### DATES

The production for the last 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ was oil and \_\_\_\_\_ was gas.  
It was well and in good condition on \_\_\_\_\_ day of \_\_\_\_\_ month of \_\_\_\_\_ year.  
The pressure in the well was \_\_\_\_\_ psi.

### EMPLOYEES

| Name  | Position | Remarks |
|-------|----------|---------|
| _____ | _____    | _____   |

### FORMATION RECORD

| From  | To    | Total feet | Formation |
|-------|-------|------------|-----------|
| _____ | _____ | _____      | _____     |