

U. S. LAND OFFICE Window Rock

SERIAL NUMBER 14-20-603-1252

LEASE OR PERMIT TO PROSPECT -----

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company J. K. Wadley Address Toxarkana, Arkansas  
Lessor or Tract Navajo Field Wildcat State New Mexico  
Well No. 1 Sec. 4 T. 30N. 18W Meridian N.M.P.M. County San Juan  
Location 1650 ft. <sup>(Nxx)</sup><sub>(S.)</sub> of N. Line and 330 ft. <sup>(Exx)</sup><sub>(W.)</sub> of W. Line of Section 4 Elevation 4859  
(Derrick floor relative to sea level)  
The information given herewith is a complete and correct record of the well and all work done thereon  
to far as can be determined from all available records.  
Signed Harrell Budd  
Date February 9, 1961 Title Consulting Geologist

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

Commenced drilling January 24, 1961 Finished drilling January 26, 1961

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from 978 to 990      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— |         |
| 1 1/2       | 11 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 2           | 12 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 3           | 13 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 4           | 14 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 5           | 15 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 6           | 16 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 7           | 17 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 8           | 18 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 9           | 19 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 10          | 20 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 11          | 21 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 12          | 22 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 13          | 23 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 14          | 24 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 15          | 25 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 16          | 26 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 17          | 27 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 18          | 28 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 19          | 29 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 20          | 30 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 21          | 31 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 22          | 32 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 23          | 33 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 24          | 34 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 25          | 35 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 26          | 36 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 27          | 37 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 28          | 38 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 29          | 39 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 30          | 40 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 31          | 41 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 32          | 42 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 33          | 43 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 34          | 44 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 35          | 45 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 36          | 46 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 37          | 47 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 38          | 48 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 39          | 49 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 40          | 50 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 41          | 51 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 42          | 52 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 43          | 53 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 44          | 54 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 45          | 55 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 46          | 56 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 47          | 57 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 48          | 58 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 49          | 59 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 50          | 60 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 51          | 61 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 52          | 62 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 53          | 63 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 54          | 64 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 55          | 65 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 56          | 66 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 57          | 67 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 58          | 68 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 59          | 69 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 60          | 70 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 61          | 71 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 62          | 72 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 63          | 73 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 64          | 74 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 65          | 75 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 66          | 76 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 67          | 77 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 68          | 78 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 69          | 79 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 70          | 80 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 71          | 81 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 72          | 82 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 73          | 83 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 74          | 84 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 75          | 85 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 76          | 86 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 77          | 87 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 78          | 88 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 79          | 89 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 80          | 90 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 81          | 91 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 82          | 92 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 83          | 93 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 84          | 94 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 85          | 95 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 86          | 96 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 87          | 97 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 88          | 98 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 89          | 99 lbs per foot  | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 90          | 100 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 91          | 101 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 92          | 102 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 93          | 103 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 94          | 104 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 95          | 105 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 96          | 106 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 97          | 107 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 98          | 108 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 99          | 109 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |
| 100         | 110 lbs per foot | 12 threads per inch | 100  | 100    | 100          | 100                 | 100        | 100 | 100     |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 7-7/8       | 50'       | 50 sacks               | circulated  |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |
|             |           |                        |             |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material **None** Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material **None** Size \_\_\_\_\_

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
| None |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 990 feet, and from -- feet to        feet  
Cable tools were used from None feet to        feet, and from        feet to        feet

## DATES

January 26, 1961 Put to producing 19

The production for the first 24 hours was ~~None~~ barrels of fluid of which -----% was oil; -----% emulsion; -----% water; and -----% sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours None Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. -----None

## EMPLOYEES

| EMPLOYEES  |         |
|------------|---------|
| Lee Wilson | Driller |
|            | Driller |
|            | Driller |

## FORMATION RECORD

| FORMATION RECORD |     |            |                     |
|------------------|-----|------------|---------------------|
| FROM—            | TO— | TOTAL FEET | FORMATION           |
| 0                | 310 | 310        | Upper Mancos shale  |
| 310              | 395 | 85         | Gallup sandstone    |
| 395              | 455 | 60         | Middle Mancos shale |
| 455              | 520 | 65         | Sanastee            |
| 520              | 860 | 340        | Lower Mancos shale  |
| 860              | 910 | 50         | Greenhorn limestone |
| 910              | 978 | 68         | Graneros shale      |
| 978              | 990 | 12         | Dakota sandstone    |

FORNIAION <sup>(OVER)</sup> RECORD—CONFIDENTIAL

16-43094-4

LEASER OR PERMIT TO PROSPECT  
SERIAL NUMBER 11-20-603-1575  
U. S. LAND OFFICE  
WINDOM MONTANA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**LOG OF OIL OR GAS WELL**

LOCATE WELL CORRECTLY

[illegible]

The summary on this page is for the condition of the well at above date.  
 Commenced drilling January 21, 1901 Finished drilling January 26, 1901  
 Date January 2, 1901  
 Signed Harvey L. Webb  
 Location 150 ft. [2] of [2] line and [2] of [2] line of [2] Section 6  
 Well No. 1 Sec. 1 T. 30R. 13N. Meridian  
 Lessor or Tract Navajo  
 Field Navajo State New Mexico  
 Company J. K. Wadley  
 Address Texas, Arkansas

OUT OR GAS SANDS OR ZONES

(D) nil 200 stores(T)

|            |    |            |    |
|------------|----|------------|----|
| 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 \_\_\_\_\_ to \_\_\_\_\_ 278  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ 279  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ 280  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_ 281

## CASING RECORD

| Casing<br>per foot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Threads per<br>inch | Weight | Amount | Kind of shoe | Cut and pulled from | From—<br>To— | Purpose |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|--------|--------------|---------------------|--------------|---------|
| <p>It is of the greatest importance to have a complete history of the well. If there were any changes made in the casing, state fully, and if any casing was "sinker" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of holes. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.</p> <p>Please state in detail the dates of redrilling, together with the reasons for the work and its results.</p> |                     |        |        |              |                     |              |         |

## HISTORY OF OIL OR GAS WELL

|                              |  |            |  |                                  |  |
|------------------------------|--|------------|--|----------------------------------|--|
| MIDDING AND CEMENTING RECORD |  | 10-43094-2 |  | U. S. GOVERNMENT PRINTING OFFICE |  |
|------------------------------|--|------------|--|----------------------------------|--|

MUDLOGGING AND CEMENTING RECORD

[illegible]

## PLUGS AND ADAPTERS

[illegible]

## SHOOTING RECORD

| Date | Material used | Diagnostic used | Quantity | Date | Dentin spot | Tooth ground out |
|------|---------------|-----------------|----------|------|-------------|------------------|
| None |               |                 |          |      |             |                  |
|      |               |                 |          |      |             |                  |
|      |               |                 |          |      |             |                  |
|      |               |                 |          |      |             |                  |

TOOLS USED

|      |         |             |     |         |             |     |         |             |     |
|------|---------|-------------|-----|---------|-------------|-----|---------|-------------|-----|
| 1991 | to 1991 | from and to | 202 | to 1991 | from and to | 202 | to 1991 | from and to | 202 |
| 1991 | to 1991 | from and to | 202 | to 1991 | from and to | 202 | to 1991 | from and to | 202 |

2374

|                                       |       |       |
|---------------------------------------|-------|-------|
| Rock pressure, lbs. per sq. in.       | None  | ----- |
| If gas well, cu. ft. per 24 hours     | None  | ----- |
| Production for the first 24 hours was | None  | ----- |
| Oil; _____                            | _____ | ----- |
| Gas; _____                            | _____ | ----- |
| Water; _____                          | _____ | ----- |
| _____ of sediment                     | _____ | ----- |
| Gravity, °Bé.                         | _____ | ----- |
| _____ barrels of fluid of which _____ | _____ | ----- |
| _____ was oil; _____                  | _____ | ----- |
| Put to producing                      | _____ | ----- |
| _____                                 | _____ | ----- |

## EMPLOYEES

|         |         |            |
|---------|---------|------------|
| Driller | Driller | Lee Wilson |
| Driller | Driller |            |

FORMATION RECORD

| FORMATION           | TOTAL FEET | TO— | FROM— |
|---------------------|------------|-----|-------|
| Upper Kansas shale  | 310        | 310 | 0     |
| Gallup sandstone    | 85         | 395 | 310   |
| Middle Kansas shale | 60         | 455 | 395   |
| Sandston            | 65         | 520 | 455   |
| Lower Kansas shale  | 310        | 830 | 520   |
| Greenhorn limestone | 20         | 850 | 830   |
| Greenhorn shale     | 35         | 885 | 850   |
| Nakota sandstone    | 15         | 900 | 885   |

10/15/81  
**FORMATION RECORD—Continued**

1. *Acidic* – at

3.107 | 294M