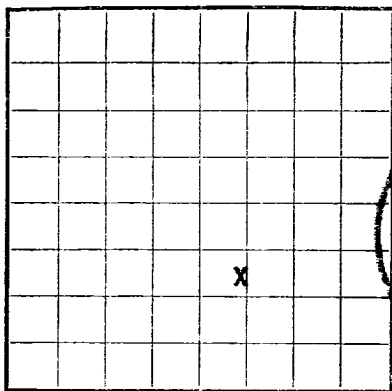


4-USGS  
1-Western Dev.  
1-Dallas  
1-FileBudget Bureau No. 42-R355.4.  
Approval expires 12-31-60.

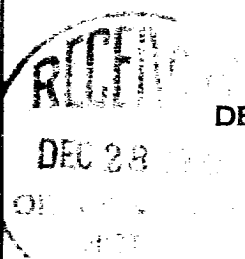
U. S. LAND OFFICE

SERIAL NUMBER **SF-079116**

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Southwest Production Company** Address **162 Petr. Center Bldg. Farmington, New Mexico**  
Lessor or Tract **Edgar Federal** Field **Basin Dakota** State **New Mexico**  
Well No. **4** Sec. **15** T. **27R.** 12W Meridian **NMPM** County **San Juan**  
Location **1650 ft. [XX] of [N] Line and 1800 [E] of [W] Line of Sec. 15** Elevation **5901 GL**  
(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.

Original signed by  
Carl W. Smith  
Signed

Date **12/22/60**Title **Production Supt.**

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

Commenced drilling **11/19**, 19 **60** Finished drilling **12/3**, 19 **60**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **G 6038** to **6056** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **G 6077** to **6085** 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—         |         |
| <b>10 3/4</b> | <b>32.75#</b>   |                  | <b>Lone Star</b> | <b>335.59'</b>  |              |                     |             |             |         |
| <b>5 1/2</b>  | <b>15.50#</b>   |                  | <b>J-55</b>      | <b>195 jts.</b> |              |                     | <b>6038</b> | <b>6085</b> |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |
|               |                 |                  |                  |                 |              |                     |             |             |         |

## MUDDING AND CEMENTING RECORD

| Size casing    | Where set                 | Number sacks of cement                                                | Method used | Mud gravity | Amount of mud used |
|----------------|---------------------------|-----------------------------------------------------------------------|-------------|-------------|--------------------|
| <b>10 3/4"</b> | <b>315 KB</b>             | <b>250 sx HA-5</b>                                                    |             |             |                    |
| <b>5 1/2"</b>  | <b>6209 KB</b>            | <b>2/225 sx 50/50 Diamix 4% gel 75 sx neat cement w/35 gals latex</b> |             |             |                    |
| <b>2"</b>      | <b>EUE landed @ 6076'</b> |                                                                       |             |             |                    |

## 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 **6210** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

Tested **12/20/60**, 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 **5,525** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. **6,906 AOF SITP 2033/7 days**

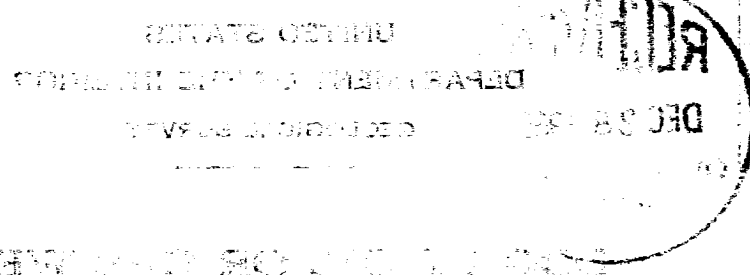
## EMPLOYEES

**Ira Armstrong**, Driller **Man Drilling Company**, Driller  
**G. B. Cagle**, Driller **S. H. Roberson**, Driller

## FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION                                   |
|-------|-----|------------|---------------------------------------------|
|       |     |            | <b>Electric Log Tops:</b>                   |
|       |     |            | <b>Pictured Cliffs 1442</b>                 |
|       |     |            | <b>Cliff House 2320</b>                     |
|       |     |            | <b>Point Lookout 3886</b>                   |
|       |     |            | <b>Mancos 4185</b>                          |
|       |     |            | <b>Gallup 5024</b>                          |
|       |     |            | <b>Greenhorn 5874</b>                       |
|       |     |            | <b>Graneros 5924</b>                        |
|       |     |            | <b>Dakota 6032</b>                          |
|       |     |            | <b>Total Depth 6210' Plugged Back 6184'</b> |

(OVER)



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 "detacked", 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 pings or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

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[illegible]