

**Santa Fe, New Mexico**

# WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in **QUINTUPLICATE**. If State Land submit 6 Copies

AREA 640 ACRES  
LOCATE WELL CORRECTLY

**Magnolia Petroleum Company**  
(Company or Operator)

State Bridges  
(Lease)

Well No. 89, in SE  $\frac{1}{4}$  of SE  $\frac{1}{4}$ , of Sec. 10, T. 17S, R. 34E, NMPM.

## Vaccines

## Pool

**1a2**

...County.

Well is 660 feet from North line and 660 feet from East line  
of Section 10. If State Land the Oil and Gas Lease No. is R. m. 1520

Drilling Commenced.....June 20....., 19..56.. Drilling was Completed.....July 1....., 19..56..

Name of Drilling Contractor.....Denver Drilling Corporation.....

Address..... **Box 669, Odessa, Texas** .....

Elevation above sea level at Top of Tubing Head.....4048..... The information given is to be kept confidential until  
..... 19.....

**OIL SANDS OR ZONES**

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

**Include data on rate of water inflow and elevation to which water rose in hole.**

No. 1, from.....to.....feet. ....

No. 2, from.....to.....feet. ....

No. 3, from.....to.....feet. ....

No. 4, from.....to.....feet. ....

## CASING RECORD

| SIZE  | WEIGHT PER FOOT | NEW OR USED | AMOUNT | KIND OF SHOE | CUT AND PULLED FROM | PERFORATIONS | PURPOSE    |
|-------|-----------------|-------------|--------|--------------|---------------------|--------------|------------|
| 8 5/8 | 24#             | New         | 1657   |              |                     |              | Surface    |
| 5 1/2 | 14#             | New         | 4690   |              |                     |              | Oil String |
|       |                 |             |        |              |                     |              |            |

## MUDDING AND CEMENTING RECORD

| SIZE OF HOLE     | SIZE OF CASING | WHERE SET | NO. BAGS OF CEMENT | METHOD USED | MUD GRAVITY | AMOUNT OF MUD USED |
|------------------|----------------|-----------|--------------------|-------------|-------------|--------------------|
| 12 $\frac{1}{2}$ | 8 5/8          | 1657      | 800                | Pump & Plug | -           |                    |
| 7 7/8            | 5 1/2          | 4690      | 1300               | Pump & Plug |             |                    |
|                  |                |           |                    |             |             |                    |

### RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

**See Attachment**

### Result of Production Stimulation.

## Depth Cleaned Out.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 4742 feet, and from - feet to - feet.  
Cable tools were used from - feet to - feet, and from - feet to - feet.

PRODUCTION

Put to Producing July 2, 19 56

OIL WELL: The production during the first 24 hours was 21 barrels of liquid of which 100 % was oil; - % was emulsion; - % water; and - % was sediment. A.P.I. Gravity 36.6

GAS WELL: The production during the first 24 hours was - M.C.F. plus - barrels of liquid Hydrocarbon. Shut in Pressure - lbs.

Length of Time Shut in -

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico

Northwestern New Mexico

|                     |                |                       |
|---------------------|----------------|-----------------------|
| T. Anhy. 1648       | T. Devonian    | T. Ojo Alamo          |
| T. Salt 1755        | T. Silurian    | T. Kirtland-Fruitland |
| B. Salt 2806        | T. Montoya     | T. Farmington         |
| T. Yates 2928       | T. Simpson     | T. Pictured Cliffs    |
| Brown lime 3137     | T. McKee       | T. Menefee            |
| T. Queen 3888       | T. Ellenburger | T. Point Lookout      |
| Solid Dolomite 4369 | T. Gr. Wash    | T. Mancos             |
| T. San Andres 4676  | T. Granite     | T. Dakota             |
| T. Glorieta         | T.             | T. Morrison           |
| T. Drinkard         | T.             | T. Penn.              |
| T. Tubbs            | T.             | T.                    |
| T. Abo              | T.             | T.                    |
| T. Penn             | T.             | T.                    |
| T. Miss             | T.             | T.                    |

FORMATION RECORD

| From | To   | Thickness in Feet | Formation              | From | To | Thickness in Feet | Formation |
|------|------|-------------------|------------------------|------|----|-------------------|-----------|
| 0    | 320  | 320               | Red bed & shale        |      |    |                   |           |
| 320  | 1122 | 802               | Red bed                |      |    |                   |           |
| 1122 | 1352 | 230               | Red bed & anhydrite    |      |    |                   |           |
| 1352 | 1441 | 89                | Anhydrite & gyp        |      |    |                   |           |
| 1441 | 1636 | 195               | Anhydrite, salt, & gyp |      |    |                   |           |
| 1636 | 1657 | 21                | Anhydrite              |      |    |                   |           |
| 1657 | 1882 | 225               | Lime & red bed         |      |    |                   |           |
| 1882 | 2427 | 545               | Salt & Anhydrite       |      |    |                   |           |
| 2427 | 3338 | 911               | Salt                   |      |    |                   |           |
| 3338 | 3680 | 342               | Anhydrite              |      |    |                   |           |
| 3680 | 3698 | 18                | Anhydrite & lime       |      |    |                   |           |
| 3698 | 3789 | 91                | Anhydrite & gyp        |      |    |                   |           |
| 3789 | 4130 | 341               | Anhydrite & lime       |      |    |                   |           |
| 4130 | 4405 | 275               | Lime                   |      |    |                   |           |
| 4405 | 4636 | 231               | Lime & Dolomite        |      |    |                   |           |
| 4636 | 4690 | 54                | Lime & sand            |      |    |                   |           |
| 4690 | 4742 | 52                | Core #1                |      |    |                   |           |

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED See Attachment

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Company or Operator Magnolia Petroleum Company Address Box 727 Kermit, Texas  
Name E. H. Blundell Position or Title District Superintendent  
7/10/56 (Date)

## ATTACHMENT - State Bridges #89

Eastman Deviation SurveyDepth      Degree Off Vertical

|      |   |
|------|---|
| 800  | 1 |
| 1125 | 2 |
| 1470 | 3 |
| 3129 | 4 |

Core Record

| <u>No.</u> | <u>From</u> | <u>To</u> | <u>Reg.</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-------------|-----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | 4690        | 4742      | 52'         | 4690-4698 Dolomite fine gray dense w/scattered shale partings, no show. 4698-4699 Dolomite finely crystalline gray to scattered pin head porosity. 4699-4703 Dolomite fine gray dense, no shows. 4703-4704 Dolomite finely crystalline gray w/5% inner crystalline porosity & pin head porosity. 4704-4714 Dolomite finely crystalline brown to gray oolitic 1% w/10% anhydrite inclusions. 4714-4716 Dolomite finely crystalline gray w/5% vugs 1/8-1/4" w/inner crystalline porosity & pin head porosity. 4716-4719 Dolomite finely crystalline dense gray no shows. 4719-4720 Dolomite finely crystalline gray w/pin point porosity. 4720-4722 Dolomite finely crystalline dense gray, no shows. 4722-4723 Dolomite finely crystalline gray w/pin point porosity. 4723-4725 Dolomite finely crystalline gray dense, no shows. 4725-4728 Dolomite finely crystalline gray to brown w/pin point porosity, bleeding oil. 4728-4729 $\frac{1}{2}$ Dolomite finely crystalline dense, no shows. 4729 $\frac{1}{2}$ -4730 Dolomite finely crystalline gray 5% inner crystalline porosity & scattered vugs, bleeding oil. 4730-4732 Dolomite finely crystalline dense, no shows. 4732-4732 $\frac{1}{2}$ Dolomite finely crystalline gray 5% inner crystalline porosity w/scattered vugs. 4732 $\frac{1}{2}$ -4733 Dolomite finely crystalline, no shows. 4733-4733 $\frac{1}{2}$ Dolomite fx. gray w/5% inner XLN porosity w/scattered 1/8" vugs. 4733 $\frac{1}{2}$ -4734 Dolomite finely crystalline gray dense, no shows. 4734-4736 Dolomite finely crystalline gray w/numerous gray shale partings, no shows. 4736-4742 Dolomite finely crystalline gray w/styolitic & numerous shale partings, no shows. |

Drill Stem Tests - NoneAcidizing or Other Completion Operation - None

| Condition | Control (%) | MCI (%) | AD (%) |
|-----------|-------------|---------|--------|
| A         | ~95         | ~95     | ~95    |
| B         | ~95         | ~85*    | ~75*   |
| C         | ~95         | ~85*    | ~75*   |
| D         | ~95         | ~95     | ~95    |

\* indicates significant difference (p < 0.05) between groups.

11. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Arar and Collins (1971).

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores on the growth of *Agaricus bisporus* spores.