



## Magnolia Petroleum Company

A Socony Mobil Company

P. O. Box 2406  
Hobbs, New Mexico  
August 13, 1958

New Mexico Oil Conservation Commission  
1000 Brazos Street  
Aztec, New Mexico

Attention: Mr. E. C. Arnold

Re: Jicarilla "F" #4  
Sec. 23, T-27N, R-3W  
Blanco Field  
Rio Arriba County, New Mexico

Gentlemen:

We propose to drill the subject well to a projected depth of 6400'. It is further proposed to dually complete this well in the Pictured Cliffs and Mesa Verde zones.

We further propose to set approximately 350' of 10-3/4" surface casing, 4100' of 7-5/8" intermediate string, and set 2400' of 5-1/2" liner on bottom. We will perforate in the Pictured Cliffs zone and Mesa Verde zone and attempt a dual gas completion. Dual tubing strings will be run.

The subject well is located 790' FNL and 790' FEL of Section 23, T-27N, R-3W, Rio Arriba County, New Mexico.

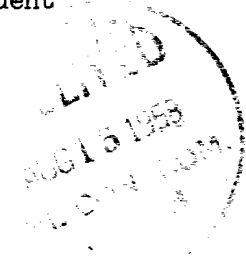
Application for tentative approval to dually complete subject well is submitted in duplicate per direction of Mr. E. J. Fisher, District Engineer, New Mexico Oil Conservation Commission, Santa Fe, New Mexico, and in compliance with Rule 112-A-Revised.

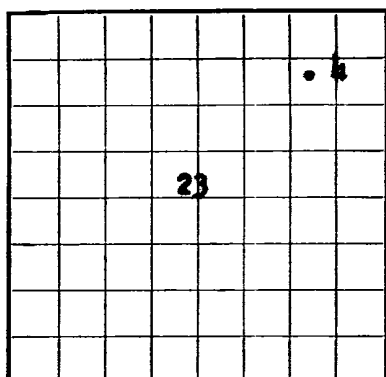
Yours very truly,

G. S. Young, Jr.  
District Superintendent

GSYJr:mc

cc: Mr. E. C. Arnold - NMOCC - Aztec, N.M.  
Mr. E. J. Fisher, NMOCC - Santa Fe, N.M.





LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Jicarilla Tribal**  
SERIAL NUMBER **Contr. #94, Tract #183**  
LEASE OR PERMIT TO PROSPECT  
**Jicarilla #F**OIL CON. COM. UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Magnolia Petroleum Company** Address **Box 2406, Hobbs, New Mexico**  
Lessor or Tract **Jicarilla #F** Field **Blanco** State **New Mexico**  
Well No. **4** Sec. **23** T **27N** R. **3W** Meridian **N.M.P.M.** County **Rio Arriba**  
Location **790** ft. **N** of **N** Line and **790** ft. **W** of **E** Line of **Sec. 23** Elevation **7115'**  
(Derrick base 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 **G. S. Young, Jr.**Date **September 24, 1958** Title **District Superintendent**

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

Commenced drilling **8-14**, 19**58** Finished drilling **8-27**, 19**58**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5633** to **6104** 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 \_\_\_\_\_ 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           | 8-27             | H-40 | 298'   |              |                     |            |      | Surface String      |
| 7-5/8       | 24.10           | 8-27             | H-40 | 402'   |              |                     |            |      | Intermediate String |
| 5           | 20.0            | 8-27             | H-40 | 223'   |              |                     | 5633       | 6104 | Oil String          |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 10-3/4      | 312'      | 270 slm                | Pump & Plug |             |                    |
| 7-5/8       | 4075'     | 125 slm                | Pump & Plug |             |                    |
| 5           | 6160'     | 225 slm                | Pump & Plug |             |                    |

## 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 \_\_\_\_\_ feet to **6160'** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

**September 22**, 19**58** Put to producing **Shut in - wait on connections**, 19**58**

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 **1483** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_Rock pressure, lbs. per sq. in. **107#**

## EMPLOYEES

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

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION          |
|-------|------|------------|--------------------|
| 3326  | 3522 | 196        | Ojo Alamo          |
| 3522  | 3760 | 238        | Kirtland Fruitland |
| 3760  | 3881 | 121        | Pictured Cliffs    |
| 3881  | 5606 | 1725       | Lewis              |
| 5606  | 5658 | 52         | Cliffhouse         |
| 5658  | 5922 | 264        | Menefee            |
| 5922  | 6104 | 182        | Point Lookout      |
| 6104  | 6160 | 56         | Maneas             |

## PERFORATIONS

Perforated **5633-5637, 5644-5652, 5744-5748, 5930-5946, 5975-5979, 5984-5989, 6025-6030, 6044-6047, 6057-6070, 6098-6104 w/2 SPF.**

## POTENTIAL TEST

After 7 days shut in, TP **1375#**, CP **1375#**. Flow 3 hrs. on 3/4" choke, **1400 MCF/da.**  
Calculated absolute open flow **1483 MCF/da.** TP **107#**, CP **365#**.

SECRET  
NOFORN

DECLASSIFIED BY: 6032  
ON: 08-09-2017

UNITED STATES  
OIL CON. COM.  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming squares. There are some small dark spots or artifacts on the paper, particularly near the top left and center. The paper appears slightly aged or off-white.

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 \_\_\_\_\_

Location: Sec. 2, T. 21 N., R. 10 E., of \_\_\_\_\_ of \_\_\_\_\_ Co., \_\_\_\_\_ State.

Well No. \_\_\_\_\_

Lessors or Trust \_\_\_\_\_

County \_\_\_\_\_ State \_\_\_\_\_

Address \_\_\_\_\_

Company \_\_\_\_\_

The summary on this page is for informational purposes only and should not be used for legal or financial decisions.

..... (zahlend bekräftigt) ..... (zahlend bezeugend)

SEALS TO REMAIN 24 HRS. UNTO

### Generalization

|            |    |          |    |
|------------|----|----------|----|
| No. 1 from | to | mod 3 of | of |
| No. 2 from | to | mod 3 of | of |
| No. 3 from | to | mod 3 of | of |

NOBILITATE WATER SAVING

(a)  $\text{mod}(\mathcal{A}) \subseteq \text{mod}(\mathcal{B})$  and  $\text{mod}(\mathcal{B}) \subseteq \text{mod}(\mathcal{A})$  if and only if  $\mathcal{A} = \mathcal{B}$ .  
 (b)  $\text{mod}(\mathcal{A}) \subseteq \text{mod}(\mathcal{B})$  if and only if  $\mathcal{A} \subseteq \mathcal{B}$ .

**COPY TO: 70860**

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" 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 piers or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

## HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-58094-2

| FROM— | TO—  | TOTAL FEET | FORMATION |
|-------|------|------------|-----------|
| 0     | 10   | 10         | Surface   |
| 10    | 20   | 20         | Gravel    |
| 20    | 30   | 30         | Sand      |
| 30    | 40   | 40         | Clay      |
| 40    | 50   | 50         | Shale     |
| 50    | 60   | 60         | Limestone |
| 60    | 70   | 70         | Sandstone |
| 70    | 80   | 80         | Gravel    |
| 80    | 90   | 90         | Sand      |
| 90    | 100  | 100        | Clay      |
| 100   | 110  | 110        | Shale     |
| 110   | 120  | 120        | Limestone |
| 120   | 130  | 130        | Sandstone |
| 130   | 140  | 140        | Gravel    |
| 140   | 150  | 150        | Sand      |
| 150   | 160  | 160        | Clay      |
| 160   | 170  | 170        | Shale     |
| 170   | 180  | 180        | Limestone |
| 180   | 190  | 190        | Sandstone |
| 190   | 200  | 200        | Gravel    |
| 200   | 210  | 210        | Sand      |
| 210   | 220  | 220        | Clay      |
| 220   | 230  | 230        | Shale     |
| 230   | 240  | 240        | Limestone |
| 240   | 250  | 250        | Sandstone |
| 250   | 260  | 260        | Gravel    |
| 260   | 270  | 270        | Sand      |
| 270   | 280  | 280        | Clay      |
| 280   | 290  | 290        | Shale     |
| 290   | 300  | 300        | Limestone |
| 300   | 310  | 310        | Sandstone |
| 310   | 320  | 320        | Gravel    |
| 320   | 330  | 330        | Sand      |
| 330   | 340  | 340        | Clay      |
| 340   | 350  | 350        | Shale     |
| 350   | 360  | 360        | Limestone |
| 360   | 370  | 370        | Sandstone |
| 370   | 380  | 380        | Gravel    |
| 380   | 390  | 390        | Sand      |
| 390   | 400  | 400        | Clay      |
| 400   | 410  | 410        | Shale     |
| 410   | 420  | 420        | Limestone |
| 420   | 430  | 430        | Sandstone |
| 430   | 440  | 440        | Gravel    |
| 440   | 450  | 450        | Sand      |
| 450   | 460  | 460        | Clay      |
| 460   | 470  | 470        | Shale     |
| 470   | 480  | 480        | Limestone |
| 480   | 490  | 490        | Sandstone |
| 490   | 500  | 500        | Gravel    |
| 500   | 510  | 510        | Sand      |
| 510   | 520  | 520        | Clay      |
| 520   | 530  | 530        | Shale     |
| 530   | 540  | 540        | Limestone |
| 540   | 550  | 550        | Sandstone |
| 550   | 560  | 560        | Gravel    |
| 560   | 570  | 570        | Sand      |
| 570   | 580  | 580        | Clay      |
| 580   | 590  | 590        | Shale     |
| 590   | 600  | 600        | Limestone |
| 600   | 610  | 610        | Sandstone |
| 610   | 620  | 620        | Gravel    |
| 620   | 630  | 630        | Sand      |
| 630   | 640  | 640        | Clay      |
| 640   | 650  | 650        | Shale     |
| 650   | 660  | 660        | Limestone |
| 660   | 670  | 670        | Sandstone |
| 670   | 680  | 680        | Gravel    |
| 680   | 690  | 690        | Sand      |
| 690   | 700  | 700        | Clay      |
| 700   | 710  | 710        | Shale     |
| 710   | 720  | 720        | Limestone |
| 720   | 730  | 730        | Sandstone |
| 730   | 740  | 740        | Gravel    |
| 740   | 750  | 750        | Sand      |
| 750   | 760  | 760        | Clay      |
| 760   | 770  | 770        | Shale     |
| 770   | 780  | 780        | Limestone |
| 780   | 790  | 790        | Sandstone |
| 790   | 800  | 800        | Gravel    |
| 800   | 810  | 810        | Sand      |
| 810   | 820  | 820        | Clay      |
| 820   | 830  | 830        | Shale     |
| 830   | 840  | 840        | Limestone |
| 840   | 850  | 850        | Sandstone |
| 850   | 860  | 860        | Gravel    |
| 860   | 870  | 870        | Sand      |
| 870   | 880  | 880        | Clay      |
| 880   | 890  | 890        | Shale     |
| 890   | 900  | 900        | Limestone |
| 900   | 910  | 910        | Sandstone |
| 910   | 920  | 920        | Gravel    |
| 920   | 930  | 930        | Sand      |
| 930   | 940  | 940        | Clay      |
| 940   | 950  | 950        | Shale     |
| 950   | 960  | 960        | Limestone |
| 960   | 970  | 970        | Sandstone |
| 970   | 980  | 980        | Gravel    |
| 980   | 990  | 990        | Sand      |
| 990   | 1000 | 1000       | Clay      |

GRAM | 0-10

**FORMATION RECORD—Continued**

SUMMARY

7-27-58 Location staked.  
 8-14-58 Commenced drilling operations 8:00 a.m. (spud date).  
 8-14-58 Set 298' (9 jts.) 10-3/4" csg. @ 312' cem. w/250 sks. neat, + 20  
 sks. neat at top 10-3/4" csg. Plug down 8:45 P.M. WOC 24 hrs.  
 8-15-58 Tested 10-3/4" csg. w/1000# for 30 mins., held O.K.  
 8-23-58 Schlumberger ran section gauge from 311' to 4060'.  
 8-23-58 Schlumberger ran Gamma-Gamma density log #1.  
 8-23-58 Schlumberger ran Gamma-Gamma density log #2.  
 8-23-58 Schlumberger ran induction electrical log.  
 8-23-58 Set 4062' (120 jts.) 7-5/8" csg. @ 4075' cem. w/75 sks. 6% Gel + 1/2#  
 Floceal per sk. + 50 sks. neat. Plug down 7:30 p.m.  
 8-24-58 B & R Service, Inc. ran temp. survey.  
 8-24-58 Tested 7-5/8" csg. w/1500# for 30 mins., held O.K.  
 8-27-58 Schlumberger ran Induction & Gamma Ray logs.  
 8-27-58 Schlumberger ran Gamma-Gamma density log #3.  
 8-28-58 Set 2233' (71 jts.) 5" liner @ 6160 cem. w/200 sks. 6% Gel + 1/2# Floceal/sk.  
 + 25 sks. neat. Plug down 1:00 a.m.  
 8-29-58 Tested 5" liner w/3000# for 30 mins., held O.K.  
 8-29-58 Drlg. out cement to 6127' PBTD.  
 8-29-58 Rig released @ 2:00 p.m.  
 9-3-58 Moved in completion rig.  
 9-3-58 P.G.A.C. ran Radiation log.  
 9-4-58 P.G.A.C. perf 5" liner 5633-5637, 5644-5652, 5744-5748, 5930-46, 5975-5979,  
 5984-5989, 6025-6030, 6044-6047, 6057-6070, 6098-6104 w/136 bullets.  
 9-4-58 Dowell sand wtr. frac perf. w/86,000 gals water + 64,500# 20-40 mesh sand.  
 9-15-58 Shut in for potential test.  
 9-22-58 Potential test completed.

