

AREA 640 ACRES
LOCATE WELL CORRECTLYNEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Magnolia Petroleum Company Box 727, Kermit, Texas
Company or Operator Address
Nora Berry Well No. **2** in **SW/4** of Sec. **31**, T. **18-S**
Lease
R. **38-E**, N. M. P. M. **Hobbs** Field, **Lee** County.
Well is **990** feet **north** of the **base** line and **2310** feet **east** of the **base** line of **Section 31**.
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is **Nora Berry** Address **Goldthwaite, Texas**
If Government land the permittee is Address
The Lessee is **Magnolia Petroleum Company** Address **Box 727, Kermit, Texas**
Drilling commenced **February 28, 1948** Drilling was completed **April 28, 1948**
Name of drilling contractor **Makin Drilling Company** Address **Hobbs, New Mexico**
Elevation above sea level at top of casing **3647'** feet.
The information given is to be kept confidential until 19.

OIL SANDS OR ZONES

No. 1, from **3274** to **3285** No. 4, from to
No. 2, from **3306** to **3318** No. 5, from to
No. 3, from **4140** to **4155** No. 6, from to

IMPORTANT WATER SANDS **None logged.**

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 | THREADS PER INCH | MAKE | AMOUNT | KIND OF SHOE | CUT & FILLED FROM | PERFORATED | | PURPOSE |
|-------|-----------------|------------------|----------|--------|--------------|-------------------|------------|--|--------------|
| 9-5/8 | 36# | 8rt | J-55 | 470 | Halliburton | | | | Surface |
| 7" OD | 24# | 10 V | J-55 | 3225 | Halliburton | | | | Intermediate |
| 5" OD | 15# | Ext. line | J-55 | | | | | | |
| 5" OD | 15# | 8rt | J-55 | 4141 | Halliburton | | | | Oil String |
| | | | | | | | | | |
| 2" | 4.7# | 8rt | 800 H-40 | 4153 | | | | | |

MUDDING AND CEMENTING RECORD

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHODS USED | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|----------------|-----------|---------------------|--------------|-------------|--------------------|
| 12-1/4" | 9-5/8 | 470 | 200 | Pump & Plug | | |
| 8-3/4" | 7" | 3225 | 800 | Pump & Plug | | |
| 6-1/4" | 5" | 4141 | 90 | Pump & Plug | | |

PLUGS AND ADAPTERS **None used.**

Heaving plug—Material Length Depth Set
Adapters — Material Size

RECORD OF SHOOTING OR CHEMICAL TREATMENT

| SIZE | SHELL USED | EXPLOSIVE OR CHEMICAL USED | QUANTITY | DATE | DEPTH SHOT OR TREATED | DEPTH CLEANED OUT |
|------|------------|----------------------------|------------|--------|-----------------------|-------------------|
| | | 20% low ten. acid | 1000 gals. | 5-5-48 | | |
| | | | | | | |
| | | | | | | |

Results of shooting or chemical treatment **Completing well.**RECORD OF DRILL-STEM AND SPECIAL TESTS **See reverse side.**

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 **Surface** feet to **4155** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing **May 4, 1948**
The production of the first **13** hours was **55** barrels of fluid of which **100** % was oil; **0** % emulsion; **0** % water; and **0** % sediment. Gravity, Be. **35.1° @ 60.**
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

Driller
Driller

FORMATION RECORD ON OTHER SIDE

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.

Subscribed and sworn to before me this **13th**day of **May**, 19 **48**My Commission expires **June 1, 1949****Kermit, Texas** **May 11, 1948**Name **D. B. [Signature]**Position **District Superintendent**Representing **Magnolia Petroleum Company**Address **Box 727, Kermit, Texas**

FORMATION RECORD

| FROM | TO | THICKNESS IN FEET | FORMATION |
|----------------------------|-------|----------------------|--|
| 0 | 11" | 11" | From top of rotary drive bushing to derrick floor. |
| 11" | 12'5" | 1'5" | From derrick floor to top of 9-5/8" OD casg. |
| 12'5" | 60' | 47'5" | Rock |
| 60 | 100 | 40 | Sand and gravel |
| 100 | 145 | 45 | Sand, gravel & rock |
| 145 | 420 | 275 | Sand and gravel |
| 420 | 450 | 30 | Sand, gravel & shale 1° @ 450. |
| 450 | 475 | 25 | Red bed |
| | | | <u>Set 9-5/8" OD casg. @ 470' w/200 sax.</u> |
| 475 | 865 | 390 | Red bed 1° @ 700. |
| 865 | 1125 | 260 | Red bed and shells |
| 1125 | 2560 | 435 | Shale & shells |
| 1560 | 1650 | 90 | Anhydrite 2° @ 1600. |
| 1650 | 1673 | 23 | Anhydrite & salt strks. |
| 1673 | 2700 | 1027 | Anhydrite & salt Straight @ 1888, 2253. |
| 2700 | 2875 | 175 | Anhydrite 2° @ 2740. |
| 2875 | 3073 | 198 | Anhydrite & lime 2½° @ 2984. |
| 3073 | 3075 | 2 | No formation logged. |
| 3075 | 3115 | 40 | Anhydrite & lime |
| 3115 | 3180 | 65 | Anhydrite |
| 3180 | 3209 | 29 | Anhydrite & lime 2° @ 3209. |
| 3209 | 3270 | 61 | Anhydrite <u>SLC 3209-3215.</u> |
| 3265 | | | Ran Schlumberger |
| 3270 | 3272 | 2 | Sand Bowers Sand, top-3270, show of oil, |
| 3272 | 3274 | 2 | Cored No recovery. |
| | | | <u>Set 7" OD Casg. @ 3225' w/800 sax.</u> |
| 0 | 3274 | 3274 | Halliburton Ran Temp.Sy. Top of cement 1560'. |
| 3274 | 3285 | 11 | Drilled out cement |
| | | | Bowers Sand Bowers sand, 8,7,8,9,11,10, 10,25,31,30,30 MPF drlg. time; show of gas after mud displaced. Swabbed 1½ hrs., very little recovery. Swabbed 28 bbls. 48 hrs. Fluid level, 3047'. |
| | | | Halliburton Ran Echo-meter. Fluid Level |
| 3285 | 3307 | 22 | Measurements |
| 3307 | 3319 | 12 | Anhydrite & lime |
| 3319 | 3321 | 2 | Sandy lime Second sec. Bowers sand, 3306-3318 (Soft). Swabbed load oil. |
| | | | Halliburton Ran Echo-meter. Fluid level |
| | | | measurements. 600' OIH. Tested by bailing 6 gals. oil per hr. |
| | | | <u>ROTARY TOOLS MOVED IN TO DRILL DEEPER</u> |
| 0 | 2.31 | 2.31 | From top of rotary drive bushing to derrick floor. |
| 2.31 | 11.38 | 9.07 | From derrick floor to top of 9-5/8" OD casing. |
| 3319 | 3348 | 29 | Sand & lime |
| 3348 | 3397 | 51 | Lime |
| 3397 | 3422 | 25 | Lime & gyp |
| 3422 | 4015 | 593 | Lime 2° @ 3575, 1-3/4° @ 3760. 6 MPF oil odor since 4005' in cuttings. |
| 4015 | 4023 | 8 | Cored Rec. 8', top 5' sand w/good odor, bottom 3' porous dolomite, bleeding oil, top pay 4013. |
| 4011 | 4023 | 12 | Drill Stem Test (1 Packer) Tool open 1 hr. thru 5/8" BHC and 1½" surface choke, no wtr. cushion, no gas, mud, nor oil to surface. BHFP 100#. S-I 15 min. BHP 340#; hyd. hd. 1900#; Rec. 60' oil & slightly gas-cut mud. |
| 4023 | 4033 | 10 | Cored Rec. 10' dolomite, bleeding some oil, not much porosity, none in last foot. |
| 4020 | 4033 | 13 | Drill Stem Test (1 Packer) 5/8" BHC & 1" surface choke, 30 min. No wtr. cushion, no gas, mud nor oil to surface. SFP 0#; BHFP 50# S-I 15 min. BHP 235#; hyd. hd. 1825#. Rec. 65' slightly oil & gas-cut mud. Last foot drilled 22 min. |
| 4033 | 4145 | 112 | Lime Rec. 6' dense limestone with slightly saturation. |
| 4145 | 4151 | 6 | Cored Rec. 2', top 1' porous dolomite, good saturation, 1' dense dolomite, slight Saturation. |
| 4151 | 4155 | 4 | Cored |
| 3265 | 4151 | 886 | Ran Schlumberger |
| | | | <u>Set 5" OD casg. @ 4141' w/90 sax.</u> |
| | | | With back off tool @ 2947' and centralizers set at 3310.22, 3280.21, 3188.83. |
| 4138 | 4020 | 17 | Halliburton Ran Temp.Sy. Top of cement 3070'. |
| 4141 | 4155 | 14 | Drilled out Ran 2" tubing to 4153'. Swabbed dry, very little gas. w/1000 gals. 20% low tension; TP 2700#, 1450#, 1700#. CP 3000#-1700#, 43 min., 5/10 B.P.M. |
| <u>RRG POTENTIAL TEST:</u> | | | Flowed 55 bbls. oil 13 hrs. thru 12/64" choke. TP 250#; CP 575-700#. GOR 1300/1. Corr. Grav. 35.1 @ 60°. 6/10 of 1½ B.S. Est. 24 hr. cap. 102 bbls. oil 24 hrs. |