

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-1  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

LEASE DESIGNATION AND SERIAL  
**NM-32410**  
IF INDIAN, ALLOTTEE OR TRIBE NAME  
UNIT AGREEMENT NAME  
FARM OR LEASE NAME  
**Shinnery Federal**  
WELL NO.  
**1**  
FIELD AND POOL OR WILDCAT  
**Wildcat (Delaware)**  
SEC. T., E., M., OR BLE. AND SURVEY OR AREA  
**Sec. 13, T-18-S, R-32-E**  
COUNTY OR PARISH  
**Lea**  
STATE  
**N.M.**

OIL WELL  GAS WELL  OTHER   
2. NAME OF OPERATOR  
**Meridian Oil Inc.**  
3. ADDRESS OF OPERATOR  
**21 Desta Drive, Midland, Texas 79705**  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface **1980' FSL & 1980' FWL, Sec. 13, T-18-S, R-32-E**  
14. PERMIT NO  
15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**3831' GR**

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:  
TEST WATER SHUT-OFF  BULL OR ALTER CASING   
FRACTURE TREAT  MULTIPLE COMPLETE   
SHOOT OR ACIDIZE  ABANDON\*   
REPAIR WELL  CHANGE PLANS   
(Other) **Complete in Delaware Sand**  XX  
SUBSEQUENT REPORT OF:  
WATER SHUT-OFF  REPAIRING WELL   
FRACTURE TREATMENT  ALTERING CASING   
SHOOTING OR ACIDIZING  ABANDONMENT\*   
(Other)   
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See Attached Procedure

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18. I hereby certify that the foregoing is true and correct  
SIGNED Cathy Prokes TITLE Operations Tech III DATE 8/5/88

(This space for Federal or State office use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 8-16-88  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

1. MIRU pulling unit. POH with rods and pump. ND pump tee. NU BOP. Release TAC and POH with 2-7/8" 6.5# N-80 tubing.
2. RIH with a 5-1/2" cement retainer, stinger and ±8500' of 2-7/8" tubing. Set retainer at ±8500' and establish pump in rate and pressure.
3. MIRU cementing company. Spot 100 sx of premium Class "H" cement with 0.5% Halad 322 and 150 sx of premium Class "H" neat cement at the end of the tubing. Sting into retainer and squeeze off Bone Spring perfs. Attempt to obtain a 1000 psi squeeze pressure above pump in pressure. Sting out of retainer and reverse excess cement out of the tubing. RDMO cementing company. POH.
4. MIRU wireline unit. Run a GR/CCL log from 5500' to 3500'. Correlate with the Gearhart open hole Neutron/Density log run 4/10/88. POH. RIH with 4" casing guns and perforate the Delaware at the following intervals: 5012' - 5028' and 5062' - 5076' with 1 JSPF and 120° phasing for a total of 32 holes. POH. RDMO wireline unit.
5. RIH with a 5-1/2" treating packer, SN, and ±5070' of 2-7/8" tubing. Spot 250 gallons of 15% NEFe HCl acid at ±5076'. Pull packer to ±4900'. Reverse spot acid and set packer at ±4900'. Pump spot acid away recording rate and pressure.
6. Swab test recording rates and cuts.
7. If fluid is limited, MIRU stimulation company. NU surface lines and test to 5000 psi. Place, monitor and maintain 500 psi on the casing-tubing annulus. Pump 3500 gallons of 15% NEFe HCl acid with 64 RCNBS (Sp gr = 1.3) spaced throughout the job. Displace acid with 30 bbls of 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Anticipated Treating Pressure = 1500 psi  
Maximum Treating Pressure = 5000 psi  
Anticipated Treating Rate = 4 BPM

RDMO stimulation company.

8. Swab test well recording rates and cuts.

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9. If fluid entry is limited, MIRU stimulation company to frac Delaware Sand. NU surface lines and test to 5000 psi. Place monitor and maintain 500 psi on the casing-tubing annulus. Pump 18,000 gallons of a 30# crosslinked fluid with 42,000 lbs of sand according to the following schedule and attached sheets:

- Pump 5000 gallons of fluid as pad
- Pump 2000 gallons of fluid with 1ppg 20/40 sand
- Pump 2000 gallons of fluid with 2ppg 20/40 sand
- Pump 3000 gallons of fluid with 3ppg 20/40 sand
- Pump 3000 gallons of fluid with 4ppg 20/40 sand
- Pump 3000 gallons of fluid with 5ppg 20/40 sand

\* Note: Anticipated Treating Pressure = 2500 psi  
Maximum Treating Pressure = 5000 psi  
Anticipated Treating Rate = 12 BPM

10. Flow back well. Release packer and drop down to check for any fill. If fill exists, RIH with a notched collar and reverse out sand. If not, continue with Step #11.

11. RIH with production tubing as follows:

- Bull plugged MA
- Perforated Sub
- Mechanical SN
- 4 joints of 2-7/8" 6.5# N-80 tubing
- 5-1/2" TAC
- ±4800' of 2-7/8" 6.5# N-80 tubing

12. ND BOP. NU pump tee. RIH with rods as follows:

- 2-1/2" x 1-1/2" x 22' RHBM pump
- 92 - 3/4" Steel Sucker rods (46%)
- 53 - 7/8" Steel Sucker rods (27%)
- 53 - 1" Steel Sucker rods (27%)

Space out pump and clamp off. (Pump will be lowered to ±5100' following a clean up period. Rod string will be run with the same percentages of rods.)

13. Set pumping unit in middle crank hole. (120" Stroke length) and pump well at ±10 SPM. (Designed to pump ±250 BFPD at 100% efficiency). Report production rates to Midland office.