

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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|--|----------------------------|---|-----------------|
| 1. TYPE OF WELL GAS | | 5. FARM OR LEASE NUMBER NM-03198 | |
| 2. OPERATOR MERIDIAN OIL INC. | | 6. IF INDIAN, ALL. OR TRIBE NAME | |
| 3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499 | | 7. UNIT AGREEMENT NAME | |
| 4. LOCATION OF WELL 1145' FNL 1565' FEL B | | 8. FARM OR LEASE NAME FROST | |
| | | 9. WELL NO. 501 | |
| | | 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL | |
| | | 11. SEC. T. R. M OR BLK. SEC. 25 T27N R10W NMPM | |
| 14. PERMIT NO. | 15. ELEVATIONS 6530' GL | 12. COUNTY SAN JUAN | 13. STATE NM |
| 16. OTHER: | | | |

Changing production casing to 4 1/2" longstring (see attached).

18. AUTHORIZED BY: *For Caldwell*
REGIONAL DRILLING ENGINEER

RECEIVED
MAR 29 1991
OIL CON. DIV.
3/28/91
DATE

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

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(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITION OF APPROVAL, IF ANY:

NMOCD

APPROVED
MAR 20 1991
FOR AREA MANAGER

Well Name: 501 FROST 1145'FNL 1565'FEL
 Sec. 25 T27N R10W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6530'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1433

Kirtland- 1618

Fruitland- 2243

Fruitland Coal Top- 2265

Fruitland Coal Base- 2397

Total Depth- 2433

Logging Program: Mud logs from 2243 to total depth.

| Mud Program: | Interval | Type | Weight | Visc. | Fl. Loss |
|--------------|------------|---------------|-----------|-------|------------|
| | 0 - 200 | Spud | 8.4 - 8.9 | 40-50 | no control |
| | 200 - 2433 | Non-dispersed | 8.4 - 9.5 | 30-60 | no control |

| Casing Program: | Hole Size | Depth Interval | Csg. Size | Weight | Grade |
|-----------------|-----------|----------------|-----------|--------|-------|
| | 12 1/4" | 0 - 200 | 8 5/8" | 24.0# | K-55 |
| | 7 7/8" | 0 - 2433 | 4 1/2" | 10.5# | K-55 |
| Tubing Program: | | 0 - 2433 | 2 3/8" | 4.7# | J-55 |

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - guide shoe on bottom. Float valve one joint off bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1618' . Stage tool @ 1618' . Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly

Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - First stage: Cement with 110 sacks of 65/35 Class "B" pozmix with 6% gel, 2% CaCl₂, 5#/sack Gilsonite, and 1/4#/sack Flocele. Second Stage: Lead with 500 sacks of 65/35 Class "B" pozmix with 6% gel, 2% CaCl₂, 5# gilsonite/sack, and 1/4# Flocele/sack. Tail with 80 sacks of Class "B" with 2% CaCl₂. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

BOP and Tests:

Surface to TD - 11" 3000 psi double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Completion - 6" 3000 psi double gate BOP stack (Reference Figure #2.) Prior to completion operations, test rams to 3000 psi for 15 minutes.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional Information:

- * The Fruitland coal formation will be completed.
 - * Anticipated Fruitland pore pressure is psi.
 - * This gas is dedicated.
 - * The E/2 of Section 25 is dedicated to this well.
 - * New casing will be utilized.
 - * Cementing Contractor will provide the BLM with a chronological log including the pump rate and pressure, and the slurry density and volume for all cement jobs.
 - * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.
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