

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

| | | | |
|--|----------------------------|---|-----------------|
| 1. TYPE OF WELL GAS | | 5. LEASE NUMBER SF-078767 | |
| 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 ROSA UNIT | |
| 4. LOCATION OF WELL 1850' F ₁ 1700' F ₂ | | 8. FARM OR LEASE NAME ROSA UNIT | |
| | | 9. WELL NO. 226 | |
| | | 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL | |
| | | 11. SEC. T. R. M OR BLK. SEC. 12 T31N R06W NMPM | |
| 14. PERMIT NO. | 15. ELEVATIONS 6250' GL | 12. COUNTY RIO ARRIBA | 13. STATE NM |
| 16. NOTICE OF INTENTION TO: Change Plans | | | |
| 17. Describe proposed or completed operations | | | |

Attached is a revised operations plan and BOPE diagrams
for the subject well.

RECEIVED
SEP 11 1990
OIL CON. DIV.
DIST. 3

18. AUTHORIZED BY: *[Signature]*
REGULATORY AFFAIRS

SEP 11 1990
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 _____
CONDITION OF APPROVAL, IF ANY:

TITLE _____

SEP 08 1990
DATE *[Signature]*
AREA *[Signature]*

DATE: AUG 31,1990

Well Name: 226 ROSA UNIT
 Sec. 12 T31N R06W
 BASIN FRUITLAND COAL

1850'FNL 1700'FEL
 RIO ARRIBA NEW MEXICO
 Elevation 6250'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2332
 Kirtland- 2433
 Fruitland- 2870
 Fruitland Coal Top- 3255
 Fruitland Coal Base- 3092
 Pictured Cliffs- 3097

Total Depth- 3093

Logging Program: Mud logs from 2870 to total depth.

| Mud Program: | Interval | Type | Weight | Visc. | Fl. Loss |
|--------------|------------|---------------|-----------|-------|------------|
| | 0 - 200 | Spud | 8.4 - 8.9 | 40-50 | no contro. |
| | 200 - 3093 | Non-dispersed | 8.4 - 9.5 | 30-60 | no contro. |

| 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 - 3093 | 5 1/2" | 15.5# | K-55 |
| Tubing Program: | | 0 - 3093 | 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.

5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2433'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

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.

5 1/2" production casing - lead with 498 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 1079 cu ft. of slurry, 100% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. 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" 2000 psi(minimum) 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" 2000 psi(minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams to 3000 psi for 15 minutes.

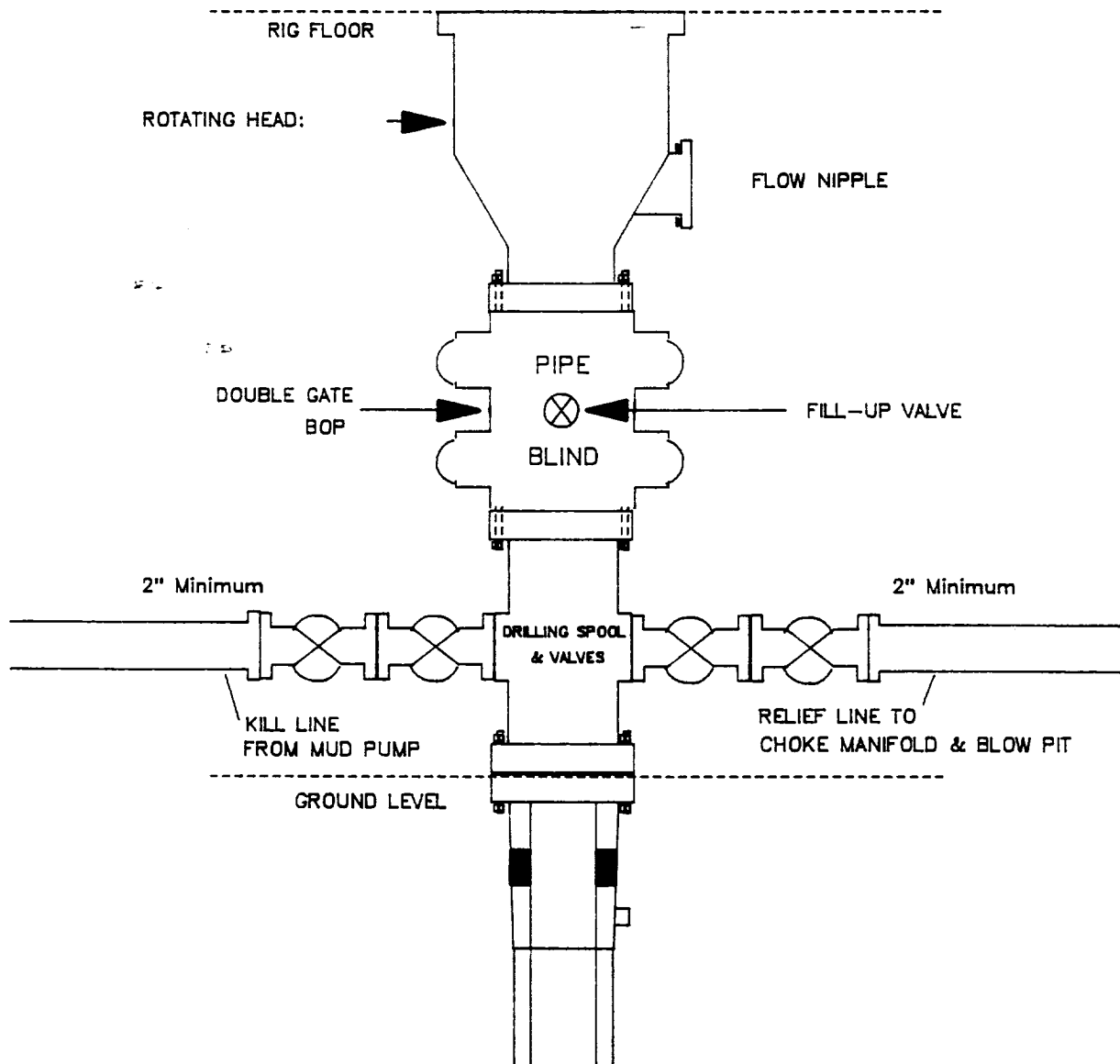
From surface to TD - choke manifold (Reference Figure #3).

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 1705 psi.
- * This gas is dedicated.
- * The N/2 of Section 12 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.

MERIDIAN OIL INC.
Drilling Rig
BOP Configuration

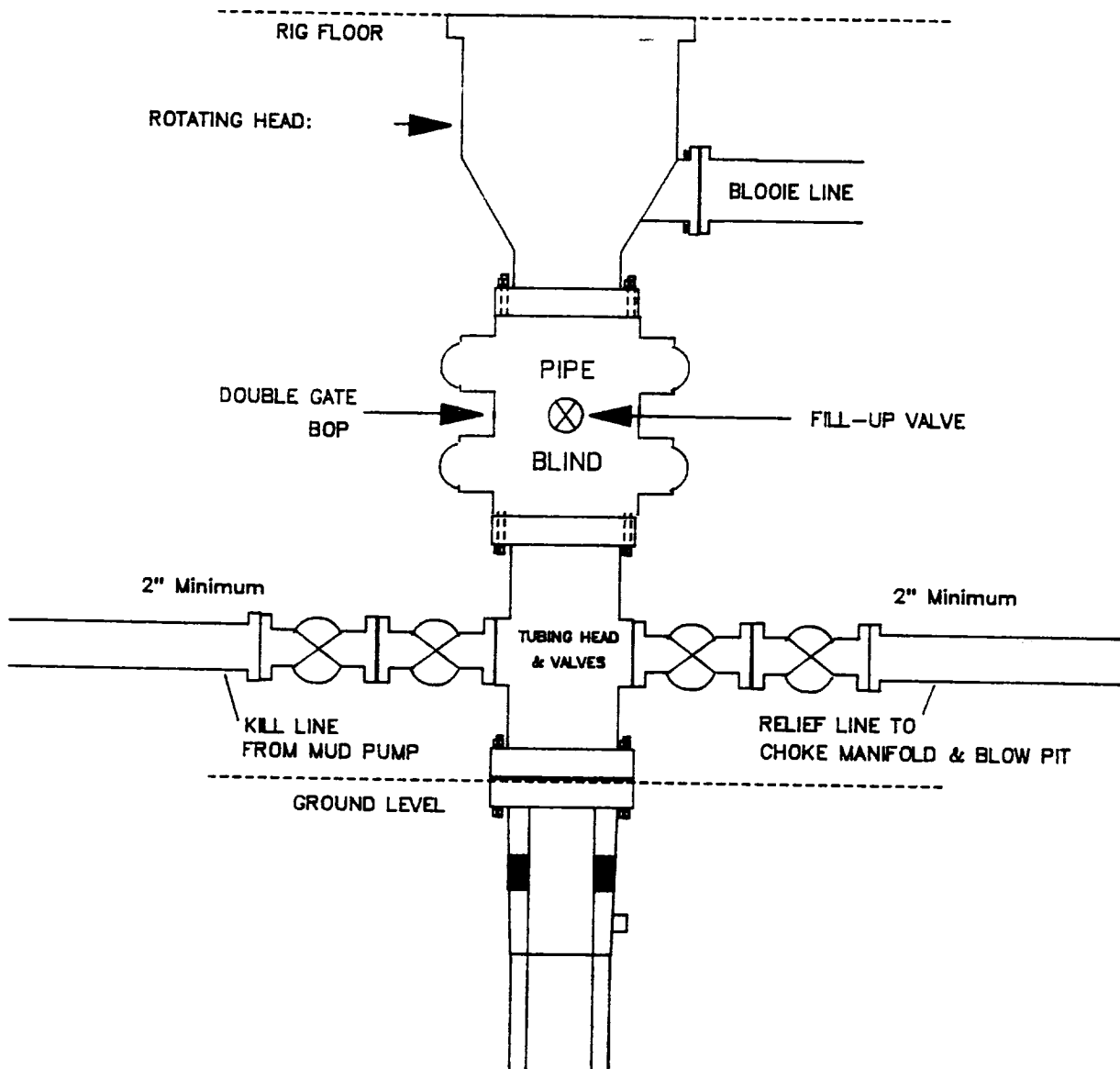


Minimum BOP installation for a typical Fruitland Coal well from surface to Total Depth. 11" Bore (10" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of BOP. All equipment is 2000psi working pressure/or greater.

Figure #1

AMS/02-05-90

MERIDIAN OIL INC.
Completion Rig
BOP Configuration

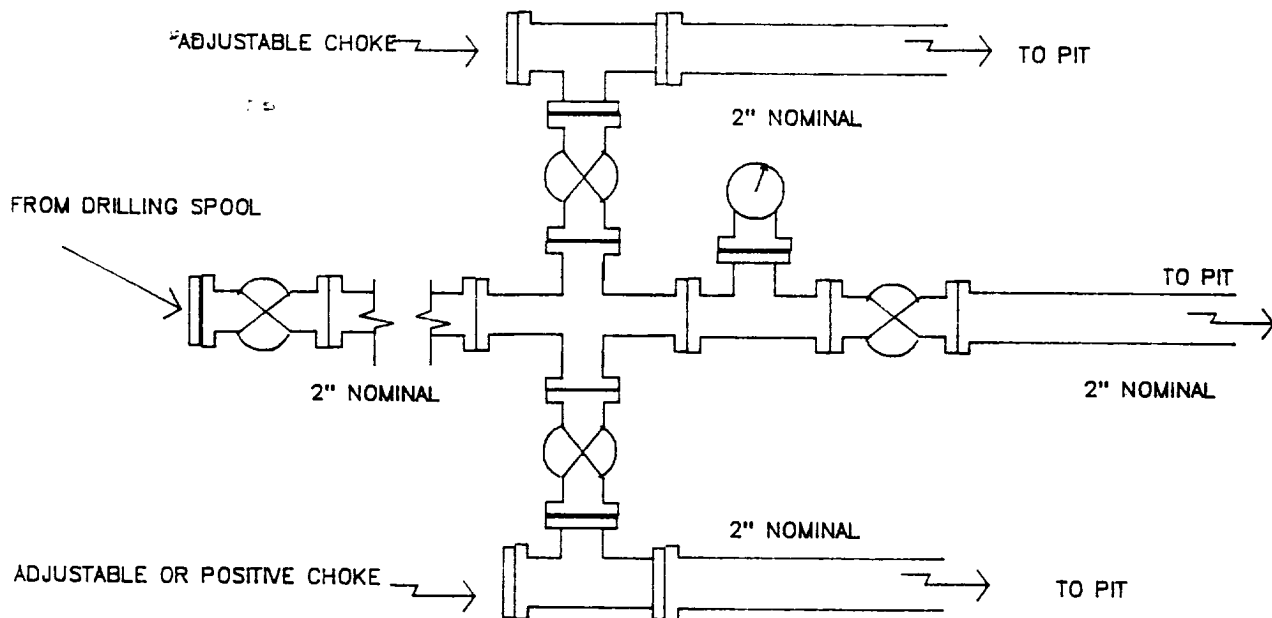


Minimum BOP installation for Completion Operations. 7 1/16" Bore (6" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

Figure #2

AMS/02-05-90

MERIDIAN OIL INC.
Typical Fruitland Coal Well
Choke Manifold Configuration



Minimum choke manifold installation for a typical Fruitland Coal well from surface to Total Depth. 2", 2000psi working pressure equipment with two chokes.

Figure #3