

OPERATORS NAME: MERIDIAN OIL INC.
 LEASE NAME AND WELL NO. JACK TANK "B" FEDERAL # 2
 LOCATION: 2180' FNL & 660' FWL, T24S, R32E, Sec. 8
 FIELD NAME: WILDCAT
 COUNTY: LEA COUNTY, NM
 LEASE NUMBER: NM 55953

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN

1. Name and estimated tops of important geologic formation/marker horizons.

RUSTLER	800'	WOLFCAMP	11900'
SALADO	1100'	ATOKA BANK	14185'
DELAWARE LS	4625'	MORROW	14600'
BASAL BRUSHY CANYON	8100'	MORROW A-2	15000'
BONE SPRING	8400'	MORROW A-1	15225'

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

MORROW 14950' - 15500' (GAS)

3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.
 - 1.) 20 3/4" 1500 LB ANNULAR W/ROTATING HEAD TO BE INSTALLED ON THE 20" CSG (SEE DIAGRAM)
 - 2.) 13 5/8" 3M PSI DOUBLE RAMS W/1.5M PSI ANNULAR TO BE INSTALLED ON THE 13 3/8" CSG (SEE DIAGRAM)
 - 3.) 11" 10M PSI DOUBLE RAM (PIPE ON TOP) ABOVE DRILLING SPOOL
 - 11" 10 M PSI SINGLE RAM BELOW DRILLING SPOOL
 - 11" 5M PSI ANNULAR W/ROTATING HEAD
 - 10M PSI CHOKE MANIFOLD W/REMOTE KILL LINE CONNECTION
 - 10M PSI CHOKE MANIFOLD W/REMOTE KILL LINE CONNECTION

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

- A. 26" 20", H-40, 94# CSG SET @ 600'
- B. 17 1/2" 13 3/8" S-80 BTC 61# CSG SET @ 3000'
- 17 1/2" 13 3/8" S-80 BTC 68# CSG SET FROM 3000' TO 4500'
- C. 12 1/4" 9 5/8" P110 LTC 47# CSG SET FROM 0' TO 4000'
- 12 1/4" 9 5/8" S95 LTC 47# CSG SET FROM 4000' TO 10,000'
- 12 1/4" 9 5/8" P110 LTC 53.5# CSG SET FROM 10,000 TO 12,000'
- D. 8 1/2" 7" Q125 FL4S 32# LINER RAN FROM 11800' TO 14700'
- E. 6" 4 1/2" P110 FL4S 13.5# LINER RAN FROM 14500' TO 15500'

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

- A. 20" CSG: CMT W/1200 SXS
- B. 13 3/8" CSG: CMT W/3000 SXS
- C. 9 5/8" CSG: CMT W/2800 SXS
- D. 7" LINER: CMT W/450 SXS
- E. 4 1/2" LINER: CMT W/150 SXS

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

0-500'	FRESH WATER GEL & LIME
500'-4500'	BRINE NM - 10-10.1#/GAL
4500'-12000'	CUT BRINE NM - 9.2-9.8#/GAL
12000'-14700'	BRINE & BARITE NM - 10-14#/GAL
14700'-15500'	BRINE & POLYMER NM - 10-11.0#/GAL

- (d.) Amounts, types, and characteristics of stand-by mud and associated circulating equipment.

Will have 300 sxs of barite (weighting material) on location before drilling Atoka section. Will utilize standard rig equipment, supplemented with SWACO choke, and Totco PUT.

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

- a. DST Program: None
- b. Core: None
- c. Mud Logging: Two-man unit 4500' to TD
- d. Logs to be run: CNL-SLD/CAL/GR - TD - 4 00'
DLL/GR - TD - 4500'
MSFL/GR - TD - 4500'
CNL/GR - 4500'-surface

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Will have to weight up to control 10,000 psi BHP in Atoka section.

No hydrogen sulfide is expected in known drilling area.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated start date 6-15-93. Anticipated drilling time expected to be 82 days from surface to TD.

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

WILL HAVE TO WEIGHT UP TO CONTROL 10,000 PSI BHP IN ATOKA SECTION

H₂S EQUIPMENT WILL BE RIGGED UP WHILE DRILLING THE 17 1/2" HOLE TO 4500'. NO H₂S IS EXPECTED BELOW THIS POINT.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

ANTICIPATED SPUD DATE 9/1/93. ANTICIPATED DRILLING TIME EXPECTED TO BE 82 DAYS FROM SURFACE TO TD.

BLOWOUT PREVENTION EQUIPMENT
 10" 900S ALL FLANGED EQUIPMENT
 5,000# WORKING PRESSURE - 10,000# TEST

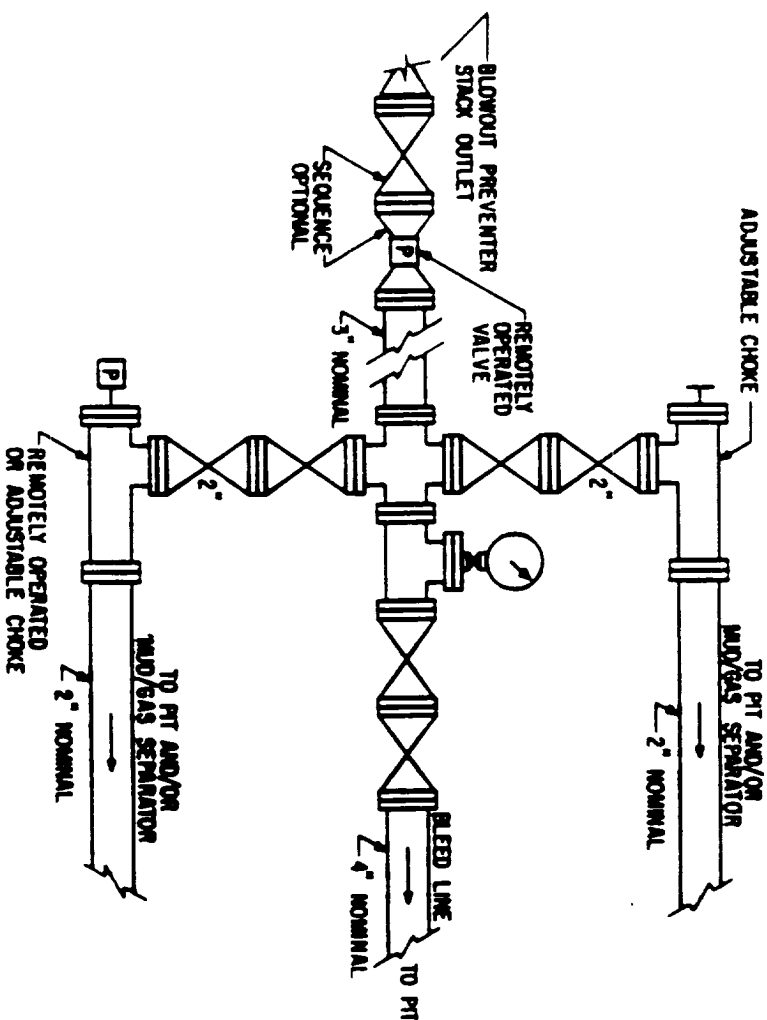
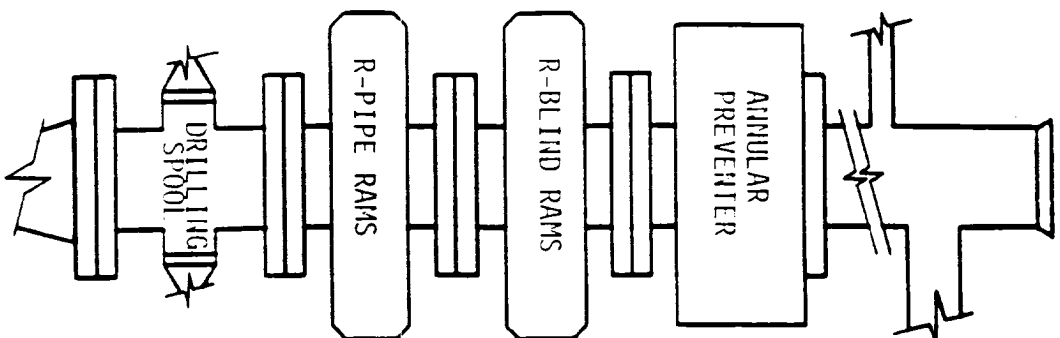


FIG. 3.A.2

TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 5M
 RATED WORKING PRESSURE SERVICE -
 SURFACE INSTALLATION