# APPLICATION TO DRILL

**PLAINS PETROLEUM OPERATING COMPANY**
**G. H. MATTIX 'B' FEDERAL #1**
**460' FNL & 1980' FWL, SEC 3-T24S-R37E**
**LEA COUNTY, NEW MEXICO**
**LEASE NO. 71-032339A**
**September 18, 1992**

In addition with Form 3160-2, Application to Drill the above well, Plains Petroleum Operating Company submits the following in accordance with BLM requirements.

## 1. ESTIMATED GEOLOGICAL MARKERS

| FORMATION | TOP | SS |
|---|---|---|
| Glorieta-Paddock | 4930' | -1670 |
| Blinebry | 5310' | -2050 |

GL: 3260'

## 2. CASING DETAIL

| | CASING SIZE OD | INTERVAL | LENGTH OF INTERVAL | WEIGHT #/FT | INTERVAL WEIGHT | CASING GRADE | JOINT |
|---|---|---|---|---|---|---|---|
| Surface | 8-5/8" | 0-1175' | 1175' | 24#/Ft | 28,200 | K-55 | STC |
| Production | 5-1/2" | 0-5850' | 5850' | 15.5#/Ft | 90,675 | K-55 | LTC |
| Tubing | 2-3/8" | 0-5800' | 5800' | 4.7#/Ft | 27,260 | J-55 | EUE |

The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

1. The manifold is attached to a drilling spool or the top ram preventer side outlet.

2. The minimun internal diameter is 2" (nominal) for outlets, flanges, valves and lines.

3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).

4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.

5. Includes a blooey line which runs straight through the cross and is isolated by a steel gate valve.

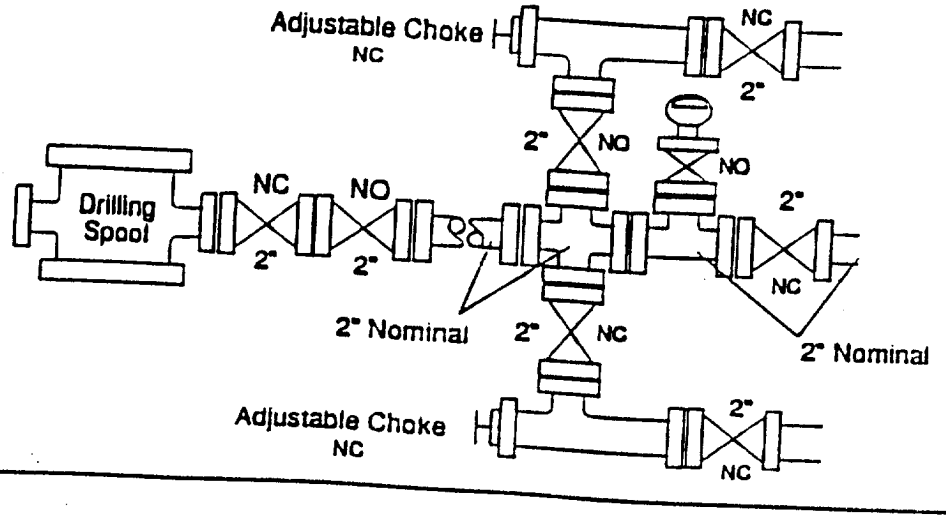
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.

7. Returns through the choke manifold must be divertible through a mud-gas seperator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.

8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.

**Figure 11J.8 - Class III Choke Manifold**

NC = Normally Closed
NO = Normally Open



The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

Figure 11J.4
Class III Blowout Preventer Stack