

## **APPLICATION TO DRILL**

Plains Petroleum Operating Company

E. C. Hill 'B' Federal #10

Lea County, New Mexico

Lease No. 064118

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### **4. MUD DETAIL**

<u>DEPTH</u>	<u>PROPERTIES</u>	<u>TREATMENT</u>
0 - 350'	Weight: 8.7 - 9.4 Viscosity: 33 - 35 Solids: < 4.	Spud Mud: Fresh water gel with sufficient to viscosity to clean hole.
350' - 2000'	Weight: 10.0 - 10.2 Viscosity: 26 - 28 Solids: < 1.0	Drill out from surface csg with brine water
3000' - 9825'	Weight: 8.6 - 9.2 Viscosity: 28 - 35 Solids < 1.0	Drill out from intermediate casing with fresh water mud

### **5. PRESSURE CONTROL EQUIPMENT (BOPE) DETAIL**

13-5/8" API Shaffer 5000# series 900 dual hydraulic preventers adapted for the drilling contractors 4-1/2" and 5-1/2" drill pipe. The BOPS will be tested after they are installed on the surface casing, prior to drilling out, and each time they are removed or rearranged on the wellhead. See Exhibit A.

### **6. TESTING AND LOGGING PROGRAMS**

#### **TESTING**

Drill stem tests may be performed to quantify and identify prospective producing horizons as drilling progresses. Production testing will be commenced after the well is drilled and casing has been set and cemented.

#### **LOGGING**

At TD, the following open hole well logs will be run:

GR-CNL-CDL-DLL-MLL