



103-07893

PRESSURE MONITORING AND CONTROL DATA (8-POINT PLAN)

L. Barker Jr. #11 South Douglas Creek Government  
App. SW SW Sec 5 - T4S - R101W  
Rio Blanco County, Colorado

03 19 1976

1. Surface Casing: 10-3/4" OD, 40.5#, K-55, new, set at 112' ± KB cemented with 50 sx. ± with cement thoroughly circulated.
2. Casinghead: A 10" x 10" Series 900 casinghead or a 10" x 7" casinghead will be screwed to the 10-3/4" OD surface casing. While drilling the 9" hole below surface casing, the fill and kill lines will be attached to the casinghead. All lines will be pressure-rated to Series 900 specifications. Casinghead will be at ground level.

A 10" x 10" Series 900 Intermediate Casing Spool or a 7" x 4-1/2" casinghead will be securely attached to the casinghead or 7" casing. After the intermediate casing is set, the fill and kill lines will be attached to the intermediate casing spool or casinghead, while drilling to T.D.

3. Intermediate Casing: 7" OD, 20#, K-55, new, set 150' ± below base of the Morapos formation and cemented with a sufficient amount to protect the highest, significant coal bed in the Mesaverde formation exposed below the surface pipe.
4. Blowout Preventer: Cameron or equivalent 10" Series 900 double ram, with blind rams on bottom, hydraulically operated from the floor. Preventor equipped with mechanical wheels and rods for backup operation. Preventor will be securely attached to the intermediate casingspool or casinghead.
5. Auxiliary Equipment: A Shaffer or equivalent 10" Series 900 Rotating Head will be securely attached to the top of the Blowout Preventor. The rotating head will be equipped with a pressure lubricator, kelly drive, with stripper rubber for the hex kelly and drill string. The 10" blooey line will go directly to reserve pit (see Plat #2).

A float will be run in the drill string right above the bit and a kelly cock will be located at the top of the kelly. A valve with proper subs will be available on the derrick floor for use in the drill string if needed. All valves and subs will be pressure rated to Series 900 specifications. A near-bit reamer and integral blade stabilizer, located approximately 30' above the bit, will be used in the string in the air or air/mist drilled portion of the hole below intermediate casing.

6. Anticipated Pressures: The maximum reported bottom hole pressure for the Entrada formation in the immediate area (the deepest zone of interest in the proposed well) is 2154 psig. This will be the pressure considered in the control program for all circulating fluids used in this operation (0.363#/ft. gradient).
7. Drilling Fluids: Since the pressure gradient needed to control the maximum recorded BHP in the immediate area indicates a fluid with a maximum weight of approximately 7.0#/gallon, no difficulty is anticipated in any normal mud drilling operations.