

## DRILLING PROGRAM

**EOG RESOURCES, INC.  
GRAYBURG DEEP UNIT WELL NO. 16  
850' FSL & 1,980' FWL  
SEC. 30, T17S, R30E  
EDDY COUNTY, NM**

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. EOG request authorization to use a 2M system, providing for an annular preventer to be used prior to drilling the surface casing shoe before drilling out of surface casing. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psi pressure.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

### **6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:**

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

| <u>Depth</u> | <u>Type</u>             | <u>Wt Viscosity</u><br><u>(PPG)</u> | <u>Waterloss</u><br><u>(sec)</u> | <u>(cc)</u> |
|--------------|-------------------------|-------------------------------------|----------------------------------|-------------|
| 0-500'       | Fresh Water             | 8.5                                 | 40-45                            | N.C.        |
| 500'-4000'   | Brine Water             | 10.0                                | 30                               | N.C.        |
| 4000' - TD   | Cut Brine + Polymer/KCL | 8.8 – 9.2                           | 32                               | 10          |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

### **7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:**

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000' to TD.