

## DRILLING PROGRAM

RHODES YATES UNIT WELL No. 19

### **SURFACE DESCRIPTION:**

The surface geology of this area is Quaternary age alluvium which forms dunes and terraces. Vegetation consists mainly of scrub oak, mesquite, and desert grasses.

**FORMATION TOPS:** Estimated KB Elevation: 2976'

| <u>Formation</u> | <u>Depth</u> | <u>Lithology</u> | <u>Fluid Content</u> |
|------------------|--------------|------------------|----------------------|
| Ogallala         | 450'         | Red Bed          | ----                 |
| Rustler          | 1215'        | Anhy, Salt       | ----                 |
| Salado           | 2800'        | Anhy, Salt       | ----                 |
| Yates            | 3005'        | Sandstone, Dolo  | Oil/Gas              |
| Seven Rivers     | 3385'        | Sandstone, Dolo  | Oil/Gas              |

The base of the salt section is the base of the Salado at 2800'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H<sub>2</sub>S is present in the Yates and Seven Rivers. H<sub>2</sub>S RADIUS OF EXPOSURE: 100ppm = 87', 500ppm = 44', based on 8,000ppm H<sub>2</sub>S and 100 MCF (see attached H<sub>2</sub>S Drilling Operations Plan. H<sub>2</sub>S equipment to be operational prior to drilling out Surface Casing Shoe.)

### **PRESSURE CONTROL EQUIPMENT:**

A 3000 psi Dual Ram type preventer with rotating head will be used. (See Exhibit C). It will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and at least every 29 days, and operated at least once each 24-hour period during drilling.

### **CASING AND CEMENT PROGRAM:**

The casing and cementing programs are detailed on Form 3160-3. All casing will be new.

#### **Centralizer Program:**

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Production Casing - Centralize every other joint on bottom 500'.

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