

## DRILLING PROGRAM

COOPER JAL UNIT WELL No. 413

### **SURFACE DESCRIPTION:**

See Item 11 (other information) in the attached Surface Use and Operations Plan.

**FORMATION TOPS:** Estimated KB Elevation: 3277'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Ogallala	350'	Red Bed	----
Rustler	1075'	Anhy, Salt	----
Salado	1500'	Anhy, Salt	----
Tansill	2805'	Anhy, Dolo	----
Yates	2965'	Sandstone, Dolo	Oil
Seven Rivers	3185'	Sandstone, Dolo	Oil
Queen	3585'	Sandstone, Dolo	Oil

The base of the salt section is the base of the Salado at 2805'. 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 = 3', 500ppm = 1.3', based on 50ppm H<sub>2</sub>S and 71 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). We do not plan to have an annular preventer. We will be able to achieve full closure of the well with the double ram preventer. 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.

A PVT system will not be installed. We will be drilling thru the reserve pit and will circulate the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

We do not plan to run an automatic remote-controlled choke. We will have installed and tested two manual, H<sub>2</sub>S trimmed, chokes.