

DRILLING PROGRAM

COOPER JAL UNIT WELL No. 401

SURFACE DESCRIPTION:

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

FORMATION TOPS: Estimated KB Elevation: 3297'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Ogallala	350'	Red Bed	----
Rustler	1190'	Anhy, Salt	----
Salado	1530'	Anhy, Salt	----
Tansill	2900'	Anhy, Dolo	----
Yates	3000'	Sandstone, Dolo	Oil
Seven Rivers	3220'	Sandstone, Dolo	Oil
Queen	3620'	Sandstone, Dolo	Oil

The base of the salt section is the base of the Salado at 2900'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H₂S is present in the Yates and Seven Rivers. H₂S RADIUS OF EXPOSURE: 100ppm = 3', 500ppm = 1.3', based on 50ppm H₂S and 71 MCF (see attached H₂S Drilling Operations Plan. H₂S 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 800'.