

## DRILLING PROGRAM

Cotton Draw Unit Well No.87

### SURFACE DESCRIPTION:

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

**FORMATION TOPS:** Estimated KB Elevation: 3963'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Rustler	660'	Sand, Salt	----
Salado	1060'	Salt	----
Castille	2860'	Anhydrite	----
Base of last Salt	4160'	Salt	----
Lamar	4410'	Lime	----
Manzaita Marker	5560'	Lime	----
Brushy Canyon	7030'	Sand	----
Lower Brushy Canyon	7860'	Sand	----
Lower Brushy Canyon	8060'	Sand	----
Top Bone Spring	8310'	Lime	----
Bone Spring	8360'	Sand	----
Wolfcamp	12888'	Lime	Gas
Total Depth	13200'		

The base of the salt section is found around 4160'. No abnormal pressures or temperatures are anticipated to be encountered in this well. The Wolfcamp interval (top at 12,888') possibly over pressured to 14.5 PPG.

H2S equipment installed 700' to Total Depth . H2S RADIUS OF EXPOSURE: 100ppm = 1936', 500ppm = 885', based on 7500 ppm H2S and 15000 MCFD (see attached H2S Drilling Operations Plan. H2S equipment to be operational prior to drilling out Surface Casing Shoe.)

Duration of Operation: 120 Days to Drill & 30 Days to Complete

### PRESSURE CONTROL EQUIPMENT:

A 3000 psi (or 5000 psi at drilling contractor's option) Dual Ram BOP with rotating head (See Exhibit C) will be installed after surface casing is set. A 5000 psi Dual Ram BOP with a rotating head and annular preventer will be used. (See Exhibit D). It will be installed after intermediate casing is set at 4350'. 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.