# SUPPLEMENTAL DRILLING DATA

## J. C. WILLIAMSON TOG Federal #3

# 1. SURFACE FORMATION: Quaternary Alluvium

# 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite250'Tansil1140'Yates1380'Goat Seep Reef1660'T/Delaware Sand series3250'T/Bone Springs Lime5920'T/First Bone Springs sand6200'

## 3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	above	200'
Delaware (oil)	3350'	- 5950'
Bone Springs	5950'	- 6500'

### 4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 9-331 C.

Surface and intermediate casing on this well have already been set and cement circulated. The producton portion of the hole will be drilled to approximately 5446' and 5-1/2" casing will be cemented at a total depth if significant shows are encountered in the Delaware sand series.

### 5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of a 3000# double ram hydraulically controlled blow out preventer and a 3000# choke manifold.

## 6. CIRCULATING MEDIUM:

The circulating medium will be brine water below 3200' and will be used to drill out existing cement plugs.

### 7. AUXILARY EQUIPMENT:

Not Applicable.