TOCO LLC

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# SUPPLEMENTAL DRILLING PLAN

# J. C. WILLIAMSON TOG Federal #1 Re-entry

1. SURFACE FORMATION: Quaternary Afluvium

## 2. **ESTIMATED TOPS OF GEOLOGIC MARKERS:**

| Rustler Anhydrite         | 150   |
|---------------------------|-------|
| Tansii                    | 1050  |
| Yates                     | 1200  |
| Goat Seep Reef            | 1400' |
| T/Delaware Sand series    | 3100  |
| T/Lower Delaware          | 5400' |
| T/Bone Springs Lime       | 5850  |
| T/First Bone Springs Sand | 6050  |

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

Fresh Water

above 200'

Delaware Sand Oil

3350' - 6000'

#### 4. PROPOSED CASING AND CEMENTING PROGRAM:

12-3/4" casing is set @ 632' w/600 sx. 8-5/8" casing is set @ 2280' w/1600 ax. 4-1/2" casing is set @ 6000' W/1325 SX. Plan to clean out. coment plugs @ surface, 582', and 1450'.

### 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 fresh water.

### 7. **AUXILARY EQUIPMENT.**

Not Applicable.

#### 8. TESTING, LOGGING AND CORING PROGRAM: