

SUPPLEMENTAL DRILLING DATA

UNION OIL COMPANY OF CALIFORNIA
WELL NO. 1 FEDERAL "31-G"

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	1270
Salt	1400
Yates	3050
Bone Spring	8030
Wolfcamp	10,940
Strawn	12,200
Atoka	12,540
Morrow	13,150
Lower Morrow	16,600
Mississippian	13,720

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	Above 300 feet
Gas	Morrow

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 9-331 C. Casing design data sheets are attached.

13-3/8" casing will be cemented with 900 sacks of Class "C" with 4% gel and 2% CaCl tailed in with 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

9-5/8" casing will be cemented in two stages. First stage will be around shoe with 50 sacks of "Light" followed with 200 sacks of "Light" with 10# gilsonite and 1/4# flocele followed with 200 sacks of Class "C" with 1/4# flocele. Second stage will be through DV tool at 3460 feet with 2150 sacks of "Light" with 10# gilsonite and 1/4# flocele followed with 450 sacks of Class "C" 50:50 pozmix with 5.4# salt and 0.5% CFR-2. Cement to circulate.