

SUPPLEMENTAL DRILLING DATA

UNION OIL COMPANY OF CALIFORNIA

WELL NO. 1 BARCLAY 11 FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	750'	Atoka	13,575'
Lamar	4490'	Morrow	14,110'
Bone Springs	8335'	M. Morrow	14,680'
Wolfcamp	11,635'	L. Morrow	15,070'
Strawn	13,400'	Mississippian	15,300'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Morrow Gas

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	750'	48#	H-40	STC
10-3/4"	0	3500'	45.5#	K-55	STC
"	3500'	4500'	45.5#	LS-80	STC
7-5/8"	0	7000'	29.7#	P-110	LTC
"	7000'	12,600'	33.7#	P-110	LTC
4-1/2" (Liner)	12,300'	15,400'	13.5#	S-95	LTC

13-3/8" casing will be cemented with approximately 500 sacks of Class "C" w/ 4% gel followed with 200 sacks of Class "C" w/ 2% CaCl. Cement to circulate.

10-3/4" casing will be cemented with approximately 1500 sacks of Light with 15# salt per sack followed with 250 sacks of Class "C" with 5# salt per sack. Cement to circulate.

7-5/8" casing will be cemented in two stages with DV tool at 8000'. First stage will be 1050 sacks of Class "H" 50/50 Poz. Second stage will