

SUPPLEMENTAL DRILLING DATA

SUN OIL COMPANY (DELAWARE)
WELL NO.1 PENNZOIL FEDERAL COM

1. SURFACE FORMATION: Quaternary.
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	1650
Yates	3260
San Andres	5200
Bone Springs	7600
Wolfcamp	10,700
Strawn	12,200
Atoka	12,250
Morrow	12,750

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	Above 300'
Oil	Bone Springs
Gas	Morrow

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	300	48#	H-40	STC
8-5/8"	0	2200	24#	J-55	STC
"	2200	4800	32#	J-55	STC
"	4800	5200	36#	J-55	STC
5-1/2"	0	2300	17#	N-80	BUTT
"	2300	10,700	17#	N-80	LTC
"	10,700	13,500	20#	N-80	LTC

13-3/8" surface casing will be cemented with sufficient Class "C" cement to circulate.

8-5/8" casing will be cemented with approximately 2000 sacks of "Light" tailed in with 300 sacks of Class "C". Cement to circulate.