

SUPPLEMENTAL DRILLING DATA

WILLIAM N. BEACH
WELL NO.1 PENNZOIL FEDERAL COM

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

Rustler Anhydrite	1500
Yates	3300
Queen	4400
San Andres	5100
Bone Springs	7850
Wolfcamp	10,800
Strawn	12,100
Atoka	12,350
Morrow	12,700

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh water	Above 400 feet
Oil	Bone Springs
Gas	Morrow

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	400	48#	H-40	STC
8-5/8"	0	2200	24#	J-55	STC
"	2200	4700	32#	J-55	STC
"	4700	5200	32#	S-80	STC
5-1/2"	0	2500	17#	N-80	BUTT
"	2500	10,600	17#	N-80	LTC
"	10,600	13,800	20#	N-80	LTC

Equivalent or better casing may be substituted, depending on availability.

13-3/8" surface casing will be cemented with approximately