

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY

FEDERAL 8 WELL NO. 1

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	800'
Delaware Lime	4650'
Bone Springs	8600'
Wolfcamp Shale	12,200'
Atoka	13,500'
Morrow	14,100'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware	Oil
Atoka	Gas
Morrow	Gas

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	800'	54.5#	J-55	ST&C
9-5/8"	0	4500'	43.5#	N-80	LT&C
7"	0	6500'	29#	P-110	LT&C
7"	6500'	11,750'	29#	N-80	LT&C
7"	11,750'	12,250'	29#	P-110	LT&C
5" LINER	12,000'	15,250'	18#	P-110	PREMIUM

MINIMUM

DESIGN FACTORS: TENSION 1.2 COLLAPSE 1.1 BURST 1.1

13-3/8" casing to be cemented with approximately 400 sacks of light cement followed by 200 sacks of Class "C" with 2% CaCl. Cement to circulate.

9-5/8" casing to be cemented with approximately 1000 sacks of light cement with 5# salt per sack followed by 200 sacks of premium cement. Cement to circulate.