

SUPPLEMENTAL DRILLING DATA

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WELL NO.3 AMERADA FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	1800
Yates	3500
San Andres	4700
Delaware	5800
Bone Springs	7300
Wolfcamp	10,200
Strawn	10,700
Atoka	10,900
Morrow	11,300

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	Above 300 feet
Gas	Morrow

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	1300	48#	H-40	STC
9-5/8"	0	3600	36#	K-55	STC
	3600	4800	40#	K-55	STC
	4800	5500	40#	N-80	LTC
7"	0	1100	23#	N-80	SL
	1100	6300	23#	N-80	LTC
	6300	8800	26#	N-80	LTC
	8800	10,900	29#	N-80	LTC
4-1/2"	10,700	11,600	13.5#	N-80	LTC
or 5"	10,700	11,600	15#	N-80	LTC

13-3/8" casing will be cemented with sufficient "Light" cement, tailed in with 200 sacks of Class "C" with 2% CaCl, to circulate