

SUPPLEMENTAL DRILLING DATA

MANZANO OIL CORPORATION

WELL NO.1 HNG FEDERAL

1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Rustler Anhydrite	1600'
Yates	3500'
Queen	4400'
Delaware	4800'
Bone Springs Lime	7500'
1st Bone Springs Sand	8800'
2nd Bone Springs Sand	8930'
3rd Bone Springs Sand	9430'
Wolfcamp	10,400'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Bone Springs Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
13-3/8"	0	350'	48#	H-40	STC
8-5/8"	0	2300'	24#	K-55	STC
"	2300'	3000'	24#	S-80	STC
"	3000'	3700'	28#	S-80	STC
5-1/2"	0	2200'	17#	K-55	BUTT
"	2200'	8200'	17#	K-55	STC
	8200'	10,500'	17#	N-80	LTC

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

13-3/8" casing will be cemented with approximately 350 sacks of Class