

## SUPPLEMENTAL DRILLING DATA

### BTA OIL PRODUCERS

8709 JV-P Young No. 1

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

Santa Rosa	400 feet
Rustler	1,270
Salt	1,330
Yates	3,020
Seven Rivers	3,250
Queen	4,010
Grayburg	4,450
San Andres	4,650
Delaware	5,850
Bone Springs	6,600
1st Bone Spring Sand	8,100
1st Bone Spring Carbonate	8,350
2nd Bone Spring Sand	8,800
3rd Bone Spring Sand	9,500
Wolfcamp	10,100

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

<u>Formation</u>	<u>Depth, Ft.</u>	<u>Content</u>	<u>Protection</u>
Yates	3,020	Gas	Cement
Queen	4,010	Oil or Gas	Cement
Bone Spring Carb.	8,350	Oil	Casing & Cement
Bone Spring Sand	8,800	Oil	Casing & Cement

4. PROPOSED CASING AND CEMENTING PROGRAM:

<u>Casing Size</u>	<u>Setting Depth</u>		<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
	<u>From</u>	<u>To</u>			
13-3/8"	0	500'	54.5#	J-55	STC
8-5/8"	0	3,000'	24# & 32#	K-55	STC
5-1/2"	0	8,200	17#	K-55	LTC
	8,200	10,200	17#	N-80	LTC

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

13-3/8" casing will be cemented with approximately 500 sacks of Class "C" with 2%  $\text{CaCl}_2$  cement to circulate to surface.