

SUPPLEMENTAL DRILLING DATA

BETTIS, BOYLE & STOVALL WELL NO.1 LOTOS "A" FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	670'	Wolfcamp	11,540'
Salado	900'	Strawn	13,520'
Delaware Sand	4400'	Atoka	13,680'
Cherry Canyon	5260'	Morrow	14,200'
Brushy Canyon	7200'		
Bone Spring	8240'		

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Devonian Gas

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>			
20"	0	650'	94#	J-55	BUTT
13-3/8"	0	1900'	54.5#	K-55	STC
"	1900'	3500'	61#	S-80	STC
"	3500'	4300'	68#	S-80	STC
9-5/8"	0	2100'	40#	N-80	BUTT
"	2100'	4000'	40#	N-80	LTC
"	4000'	6200'	40#	S-80	STC
"	6200'	9700'	43.5#	S-95	LTC
"	9700'	11,700'	47#	S-95	LTC
*7-5/8" Liner	11,500'	13,800'	33.7#	S-95	LTC
5-1/2" Liner	13,600'	16,600'	20#	S-95	LTC

*7-5/8" liner will be run only if gas production is encountered in the Atoka.

20" casing will be cemented with approximately 500 sacks of Light with 2% CaCl followed by 500 sacks of Class "C".

13-3/8" casing will be cemented with approximately 3000 sacks of Light followed by 500 sacks of Class "C".