

**SUPPLEMENTAL DRILLING DATA**  
**NEARBURG PRODUCING COMPANY**  
**VIPER 3 FEDERAL #1**

**1. SURFACE FORMATION:**

Quaternary Aeolian Deposits

**2. ESTIMATED TOPS OF GEOLOGIC MARKERS: (Get from Geo. dept.)**

T/Rustler	1,500'	T/Strawn	12,100'
B/Salt	3,150'	T/Atoka	12,370'
T/Delaware	5,300'	T/Morrow	12,750'
T/Bone Spring	8,100'		
T/Wolfcamp	11,000'		

**3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:**

Bone Spring, Wolfcamp and Morrow formations

**4. 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>			
	16"	0	1,000'	65#	H-40	STC
	16"	1,000	1,350'	75#	J-55	STC
	11-3/4"	0	3,750'	65#	S-95	BTC
(Optional)	8-5/8"	3,550'	4,500'	32#	J-55	STC
	8-5/8"	4,500'	5,250'	32#	S80	STC
	5-1/2"	0	2,400'	17#	N-80	BTC
	5-1/2"	2,400'	10,200'	17#	N-80	LTC
	5-1/2"	10,200'	13,700'	17#	S-95	LTC

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

We plan to drill a 18-1/2" hole to equal 1,350'. 16" casing will be cemented with 1,300 sx or volume necessary to tie back to surface. We will then drill a 14-3/4" hole to 3,750', set and cement casing using 2,000 sx of cement. A contingency 8-5/8" casing liner will be set in a 10-5/8" hole at 5,250' using 1,000 sx of cement.

5-1/2" production casing will be cemented with approximately 500 sx of Class "H" 50/50 POZ and 1,200 sx Class "H" 35/65 POZ cement..

**5. PRESSURE CONTROL EQUIPMENT:**

The BOP stack will consist of a 5,000 psi working pressure, dual ram type preventer and annular.

A BOP sketch is attached.