

PERMIT TO DRILL SCOGGINS DRAW FEDERAL #2
IN COMPLIANCE WITH ORDER NO. 1

SUN EXPLORATION AND PRODUCTION COMPANY
SCOGGINS DRAW FEDERAL #2
SEC. 15, T-18-S, R-27-E
660' FSL, 1980' FWL
EDDY COUNTY, NEW MEXICO

1. GEOLOGIC SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Queen	1080
San Andres	1865
Glorieta	3530
*Wolfcamp	6800
*Strawn	8940
*Atoka	9300
*Morrow	9576
Chester	9925

3. ESTIMATED DEPTHS OF ANTICIPATED, WATER, OIL, GAS, OR MINERALS
Formations possibly productive of oil or gas are indicated with an asterisk (*), above in Section 2.

4. PROPOSED CASING PROGRAM

<u>Size</u>	<u>Csg Seat</u>	<u>Footage</u>	<u>Grade</u>	<u>Wt & Thread</u>	
13-3/8"	500'	500'	K-55	54.5#	STC
8-5/8"	2900'	2900'	K-55	24.0#	STC
5-1/2"	10000'	8800'	K-55	17.0#	LTC
		1200'	N-80	17.0#	LTC
2-7/8"	9800'	9800'	N-80	6.5#	8RdEUE

PROPOSED CEMENTING PROGRAM

13-3/8"	Cemented to surf w/ 525 sx Class "C" + 2% CaCl ₂ + 1/4#/Sx Flocele
8-5/8"	Cemented to surf w/1050' Lite + 1/4#/Sx Flocele followed by 250 Sx Class "C" Neat
5-1/2"	Cemented to 6300' w/ 625 Sx 50/50 Poz "H" + 2% Gel + 2% KCL + .3% CFR-2 + .5% Fluid Loss Additive

Cement volumes adjusted by calipers for 8-5/8" & 5-1/2" casing strings.