

PERMIT TO DRILL HUDSON FEDERAL COMM #1  
IN COMPLIANCE WITH ORDER NO. 1

SUN EXPLORATION AND PRODUCTION COMPANY  
HUDSON FEDERAL COMM #1  
SEC. 17, T-19-S, R-33-E  
1980' FNL, 990' FEL  
LEA COUNTY, NEW MEXICO

1. GEOLOGIC SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Rustler	1400	Wolfcamp*	11,000
Salt	1600	Strawn*	12,170
Base Salt	3200	Atoka C*	12,800
Yates	3200	U. Morrow	12,930
San Andres	5050	M. Morrow*	13,189
Bone Spring L.S.	7700	LWR. Morrow*	13,440
1st Bone Spring SD*	9100		

3. ESTIMATED DEPTHS OF ANTICIPATED, WATER, OIL, GAS, OR MINERALS

Formations possibly productive of oil or gas are indicated with an astrik(\*), above in Section 2.

4. PROPOSED CASING PROGRAM

<u>Size</u>	<u>Csg Seat</u>	<u>Footage</u>	<u>Grade</u>	<u>Wt &amp; Thread</u>
13-3/8"	400'	400'	K-55	54.5# STC
8-5/8"	±5200'	5200'	K-55	32.0# STC
5-1/2"	13700'	1900'	N-80	17.0# BUTT
		6800'	N-80	17.0# LTC
		5000'	N-80	20.0# LTC
2-7/8"	13700'	13700'	N-80	6.5# AB MOD

PROPOSED CEMENTING PROGRAM

13-3/8" Cemented to surf w/ 425 sx Class "C" + 2% Cacl<sup>2</sup> + 1/4#/SX FLOCELE

8-5/8" Attempt to cement 5200' to surf w/ ±2000 sx HOWCO LITE + 10% salt + 1/4#/SX FLOCELE and 200 sx Class "C".

5-1/2" DV @ 8900'. Anticipate to cement 13700'-8900'.  
1st Stage ±975 sx Class "H" 50/50 POZ w/ 2% GEL + 5% KCL  
+ 0.3% CFR-2 + 0.5% HALAD-22A  
2nd Stage ±850 sx Class "H" 50/50 POZ w/ 2% GEL + 0.5% CFR-2

Cement volumes & DV tool depth to be adjusted as necessary.

RECEIVED  
MAR 27 1987  
OCD  
HOBBS OFFICE