

TEN POINT DRILLING PLAN FOR BUFFALO FEDERAL #1
IN COMPLIANCE WITH ORDER NO. 1

SUN EXPLORATION AND PRODUCTION COMPANY

BUFFALO FEDERAL #1
SEC. 11, T-19-S, R-33-E
660' FNL & 1980' FEL

LEA COUNTY, NEW MEXICO

1. GEOLOGIC SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Rustler	1520	Wolfcamp*	10,670
Base Salt	3190	Strawn*	11,950
Yates	3240	Atoka*	12,630
San Andres	4980	M. Morrow*	12,920
Bone Springs L.S.*	7613	L. Morrow*	13,140
1st Bone Springs Sd.*	8906	Chester	13,280
2nd Bone Springs Sd.*	9460		
3rd Bone Springs Sd.*	10,425		

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

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

4. PROPOSED CASING PROGRAM

<u>Size</u>	<u>Casing Seat</u>	<u>Footage</u>	<u>Grade</u>	<u>Wt & Thread</u>	
13-3/8"	500'	500'	K-55	54.5#	STC
9-5/8"	5300'	5300'	N-80	40#	LTC
5-1/2"	13700'	1900'	N-80	17#	BUTT
		6800'	N-80	17#	LTC
		5000'	N-80	20#	LTC
2-7/8"	13700'	13700'	N-80	6.5#	8R MOD

PROPOSED CEMENTING PROGRAM

13-3/8" Cemented to surface w/525 sx Class "C" + 2% CaCl₂ + 1/4#/sx Flocele.

9-5/8" Attempt to cement 5300' to surface w/±2350 sx Howco Lite + 10% Salt + 1/4#/sx Flocele & 500 sx Class "C" in two stages. DV tool @ 3300'.

5-1/2" Stage collar @ ±8400'. Anticipate to cement 13700' - 8400' on 1st stg using ±1100 sx 50:50:2 POZ + 2% KCL + .3% CFR-2 + .5% Halad 22A. Anticipate to cement 8400' - 5300' on 2nd stg using ±650 sx 50:50:2 POZ.

Cement volumes & stage collar depths to be adjusted as necessary.