

TEN POINT DRILLING PLAN FOR
LEA CHAPARRAL FEDERAL COMM NO. 1
IN COMPLIANCE WITH ORDER NO. 1

SUN EXPLORATION AND PRODUCTION COMPANY
LEA CHAPARRAL FEDERAL COMM NO. 1
SEC 33, T-19-S, R-34-E
1980' FSL & 1980' FWL
LEA COUNTY, NEW MEXICO

1. GEOLOGIC SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Rustler	1,611	Wolfcamp*	11,089
Base Salt	3,200	Strawn*	12,039
Yates	3,514	Atoka*	12,589
San Andres	5,150	N. Morrow*	13,029
Bone Springs L.S.*	8,199	L. Morrow*	13,309
1st Bone Springs Sd.*	9,369	Barnett	13,659
2nd Bone Springs Sd.*	9,929		
3rd Bone Springs Sd.*	10,539		

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#	BTC or STC w/Base Plate on Bradenhead
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#	8Rd Mod

PROPOSED CEMENTING PROGRAM

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

9-5/8" Anticipate to cement 5300-3300' w/ ±500 sx Howco Lite + 10% Salt + 1/4#/sx Flocele & 125 sx Class "C" neat as tail.
Anticipate to cement 3300' to surface on 2nd stage using 1500 sx Howco Lite w/ 10% Salt + 1/4#/sx Flocele + 200 sx Class "C" neat as tail. Stage Collar @ 3300'.

5-1/2" Anticipate to cement 13700-8800' on 1st stage using ±1050 sx Class "H" 50/50 POZ w/ 2% gel + 2% KCL + .3% CFR-2 + .5% Halad 22A.
Anticipate to cement 8800-5000' on 2nd stage using ±725 sx Class "C" 50/50 POZ w/ 2% gel. Stage collar @ ±8800'.

Cement volumes & stage collar depths to be adjusted as necessary.
1P4/6585 - (1)