DRILLING PLAN

STATE A COM #1E NW NW Section 36-29N-11W San Juan County, New Mexico

1. SURFACE GEOLOGICAL FORMATION: Tertiary Huerfano

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Ojo Alamo	7 79'	Upper Mancos	4522 '
Kirtland	789 '	Gallup	5381'
Fruitland	1599'	Lower Mancos	5926 '
Pictured Cliffs	1803	Greenhorn	6141'
Lewis	2006	Graneros	62041
Chacra	2813 '	Dakota A	6239
Cliff House	3395¹	Dakota B	63221
Menefee	3525¹	Morrison	6527 '
Point Lookout	4110'		

3. ESTIMATED TOPS OF POSSIBLE WATER, OIL, GAS OR MINERALS:

Ojo Alamo	779 '	Water
Fruitland	1599'	Gas
Pictured Cliffs	1803 '	Gas
Cliff House	33951	Gas
Gallup	5381'	Gas
Dakota	6239'-6322'	Oil & Gas

4. PROPOSED CASING PROGRAM:

Casing	Hole Size	Interval	Section Length	Size OD	Weight Grade and Joint	New Used
Conductor						
Surface	12-1/4"	0-400		8-5/8"	24#,K-55,STC	· New
Intermediate						
Production	7-7/8"	0-6521		4-1/2"	10.5#,K-55,ST	C New
Liner						

Cement Program

Conductor

Surface Circulate cement to surface with 2% CaCl₂ additive

Intermeidate ---

Production Volume of cement will depend on caliphered hole volume. Neat cement will be placed about 1000' above lower producing formations.

Estimated 175 sx 50/50 poz mix with 4% gel and friction reducer followed by 160 sx Class "G" cement. Set DV tool 100' below

Ojo Alamo and cement into surface casing.

Liner