

DRILLING PROGRAM

EOG RESOURCES, INC.
MANTARAY "13" FEDERAL COM NO. 1
2306' FSL & 936' FEL
SEC. 13, T18S, R32E
LEA COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Queen	4214'
San Andres	4824'
Bone Springs	7188'
Wolfcamp	10331'
Wolfcamp Shale	11458'
Atoka Shale	12559'
Morrow Clastics	13074'
Lower Morrow	13402'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	Above 250'	Fresh Water
Grayburg/San Andres	4800'	Oil
Strawn	12200'	Oil
Atoka	12700'	Gas
Morrow	13400'	Gas

4. CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>OD Casing</u>	<u>Weight Grade Jt. Cond. Type</u>
14 3/4"	0-400'	11 3/4"	42# H-40 ST&C
11"	0-4000'	8 5/8"	32# J-55 LT&C
11"	5500'	8 5/8"	32# HCK LT&C
7 7/8"	0-13700'	5 1/2"	17# S95/P110 L&TC

Cementing Program:

11 3/4" Surface Casing:	Cement to surface with 200 sx Prem Plus, 3% Econolite, 25 Calcium Chloride, 0.25#/sx Flocele, 150 sx Prem Plus, 2% Calcium Chloride
8 5/8" Intermediate:	Cement to surface with 800 sx Interfill C, .25#/sx flocele, 250 sx Premium Plus, 2% Calcium Chloride
5 1/2" Production:	Cement w/930 sx Premium, 3% Econolite, 5#/sx Salt (3%), 0.2% HR5, .25#/sk Flocele, 250 sx Prem 50/50 Poz mix 'A', 2% Halliburton-Gel First 2%, 0.5% Halad-322. This is designed to bring TOC to 4500'.