

Attached to Fc 3160-3
Mack Energy Corporation
Fir Federal #1
1770 FSL & 990 FWL
NW/4 SW/4, Sec 25 T17S R27E
Eddy County, NM

DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface	Abo	5170
Top of Salt	510'	Wolfcamp	6400
Base of Salt	1055'		
Yates	1215'		
Queen	2183'		
San Andres	2931'		
Glorietta	4372'		

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	150'	Fresh Water
Grayburg	1100'	Oil/Gas
San Andres	1400'	Oil/Gas
Paddock	4080'	Oil/Gas
Abo	5170	Oil/Gas
Wolfcamp	6400	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 8 5/8" casing to 300' and circulating cement back to surface will protect the surface fresh water sand. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing, which will be run at TD.

4. Casing Program:

Hole Size	Interval	OD Casing	Weight, Grade, Jt, Cond., and Type
12 1/4"	0-300'	8 5/8"	24#, K-55, ST&C, New, R-3
7 7/8"	0-TD	5 1/2"	17#, J-55, LT&C, New, R-3