

Attached to For: 60-3  
Mack Energy Corporation  
MC Federal #2  
1650 FNL & 330 FWL  
SW/4 NW/4, Sec 22 T17S R32E  
Lea County, NM

## DRILLING PROGRAM

### 1. Geologic Name of Surface Formation

Quaternary

### 2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface
Top of Salt	800'
Base of Salt	1800'
Yates	2080'
Queen	3010'
San Andres	3800'
Glorietta	5250'

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

Water Sand	150'	Fresh Water
Grayburg	3500'	Oil/Gas
San Andres	3800'	Oil/Gas
Paddock	5330'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 200 and circulating cement back to surface will protect the surface fresh water sand. Salt Section will be protect by setting 8 5/8" casing to 2100' and circulating cement back to surface. 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., Type
17 1/2"	0-200'	13 3/8"	48#, K-55, ST&C, New, R-3
12 1/4"	0-2100'	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