

## DRILLING PROGRAM

Attached to Form 3160-3  
Mitchell Energy Corporation  
Geronimo Federal #10  
660' FNL & 1575' FWL  
NE/NW, Sec 31, T-19-S, R-33-E  
Lea Co., N.M.

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Permian	Surface
Top Salt	1350'
Base Salt	2740'
Yates	2970'

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

Upper Permian Sands	100'	fresh water
Yates	2970'	oil

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8-5/8" csg at 500' 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 behind the 5-1/2" csg.

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD csg</u>	<u>Weight, Grade, Jt. Cond. Type</u>
12-1/4"	0-500'	8-5/8"	24#, K-55, ST&C, New, R-3
7-7/8"	500-TD'	5-1/2"	15.5#, ST&C, New, R-3

Cement Program:

8-5/8" Surface  
casing:

Cemented to surface with 300 sacks of  
Class "C" + 2%  $\text{CaCl}_2$  + 1/4 #/sack  
Flocele.

5-1/2" Production  
casing:

Cemented to surface with 800 sacks Class  
"C" + 5#/sack salt + 1/4#/sack Flocele.