

## DRILLING PROGRAM

COLLINS & WARE, INC.  
SHEEP DRAW FEDERAL # 7  
660' FSL & 660' FWL, UNLTR M, Sec. 28, T22S, R26E  
EDDY COUNTY, NM

The following information is filed in accordance with <sup>BLM</sup> ~~New Mexico~~  
~~Oil Conservation~~ Rules and Regulations:

1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Delaware	1680'
Cherry Canyon	2550'
Bone Springs	4950'

3. ESTIMATED DEPTH TO FRESH WATER:  
Possible fresh water 100'-300'

ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware (below 1700')  
No other formations are anticipated to give up commercial quantities of hydrocarbons.

The fresh water sands will be protected by setting 13 3/8" casing at 350' and circulating cement back to surface. First intermediate 8 5/8" casing will be set at 1650' and cement circulated back to surface. The 5 1/2" production string will be set at 5000' and cement circulated back to surface.

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing Hole Size	Interval	Casing OD	WT., Grade, Joint, Condition
17.5"	0-350'	13 3/8"	<del>48-61</del> <sup>54-5</sup> #, K-55, ST&C, New
11.0"	0-1650'	8.5/8"	24#, J-55, ST&C, New
7.875"	0-5000'	5 1/2"	15.5#, K-55, LT&C, New

Cement:

13 3/8" Surface Csg.: Cemented with 400 sacks of Class "C" with 2% CaCl. Circulate cement.

8 5/8" First Intermediate : Cemented with 425 sacks of 50-50 Pozmix cement tailed in with 225 sacks of Class "C" with 2% CaCl. Cement to circulate.

5 1/2" Prod. Csg.: Cemented with 400 sacks of Lite cement tailed in with 250 sacks of Class "C" with 1% CaCl to circulate to surface.