DRILLING PROGRAM

COLLINS & WARE, INC. SPIKE FEDERAL WELL NO. 1 1980' FEL & 1650' FNL Sec. 24, T20S, R28E, Eddy County, NM

The following information is filed in accordance with New Mexico Oil Conservation Rules and Regulations:

1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	190'
Yates	775'
Seven Rivers	1042'
Delaware	3060'
Bone Springs	5300'

3. <u>ESTIMATED DEPTH TO FRESH WATER</u>: Possible fresh water 100'-300'.

ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware (below 3000') Oil Bone Springs Oil No other formations are anticipated to give up commercial quantities of hydrocarbons.

The fresh water sands will be protected by setting 13.375" casing at 400' and circulating cement back to surface. The intermediate 8.625" casing will be set at 3000' and cement circulated back to surface. A 5.5" production string will be run to 5800' and cemented to tie back to the 8.625" casing.

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing: <u>Hole Size</u> 17.5" 12.25" 6.125"	<u>Interval</u> 0-400' 0-3000' 0-5800'	<u>Casin</u> 13.379 8.629 5.5"	5" 5"	48-68#,K-9 24#, J/S-9	55, ST&C,	C, Used	<u>n</u>
Cement: 13.375" Su	rface Csg:			ted with 4 Cl. Circula		of Class "C"	with
8.625" Int	ermediate:			ted with 1: t to circu		of Class "C	·•••
5.5" Produ	ction Casin	g:	to ti		.625" and	Class "C" c protect all	