

SUPPLEMENTAL DRILLING DATA

MCDONNOLD OPERATING, INC.

Well #19 Langlie Jack Unit
1330' FSL, 1460' FEL, Sec. 20, T-24-S, R-37-E
Lea County, New Mexico

1. SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Rustler	1180'
Yates	2900'
Seven Rivrs	3220'
Queen	3435'

3. ANTICIPATED POROSITY ZONES:

Water	180'
Gas	3020'
Oil	3435'

4. CASING DESIGN:

<u>Size</u>	<u>Casing</u>	<u>Interval</u>	<u>Weight</u>	<u>Class</u>	<u>Joint</u>	<u>Condition</u>
12 1/4"	8 5/8"	0 - 400'	24.0#	K-55	STC	New
7 7/8"	5 1/2"	0 - 3900'	14.0#	K-55	STC	New

5. SURFACE CONTROL EQUIPMENT: A 3000 psi working pressure BOP system. A sketch of BOP is attached.

6. CIRCULATING MEDIUM:

0' - 400' Fresh water with gel added if needed for viscosity
400' - TD Salt water conditioned as necessary for control of viscosity and water loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. TESTING, LOGGING, AND CORING PROGRAMS: No coring or DST's are planned. Compensated Neutron-Formation Density w/Gamma Ray Log, 0-TD; Dual Lateral Log Shoe to TD.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED DATES: It is planned that drilling operations will commence about June 16, 1994. Duration of drilling and completion operations should be 20 to 60 days.