

SUPPLEMENTAL DRILLING DATA

MURPHY OPERATING CORPORATION
WELL #11 TLSAU 30
1780' FSL & 1980' FWL, SEC. 30-7S-36E
ROOSEVELT COUNTY, NEW MEXICO

1. SURFACE FORMATION: Sandy soils of Tertiary Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	245'	Pi Marker	4000'
Base Salt	2060'	P-1	4105'
Yates	2320'	P-2	4180'
Queen	2970'	P-3	4225'
San Andres	3475'	P-4	4300'

3. ANTICIPATED POROSITY ZONES:

Water: 200' - 230'
Oil: 4245' - 4290'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 300'	24.0#	J-55	STC
5 1/2"	0 - 4400'	15.5#	J-55	STC

5. PRESSURE CONTROL EQUIPMENT: Two Ram-Type Preventors.

3000 PSC W.P.

6. CIRCULATING MEDIUM:

0 - 300' Fresh water with gel or lime as needed for viscosity control.

300 - 4400' Brine, conditioned as necessary for control of viscosity, pH, weight and water-loss.

7. AUXILIARY EQUIPMENT: Drill string safety valves will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, LOGGING AND CORING PROGRAMS: A core and DST of the San Andres P-2 zone is planned. It is planned to run a CNL w/GR log and an Induction log.

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

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about February 12, 1988. Duration of drilling and completion operations should be 2 to 5 weeks.