

SUPPLEMENTAL DRILLING DATA

SANTA FE EXPLORATION COMPANY
WELL #1 MASON FEDERAL
2310' FSL & 330' FWL SEC. 33-19S-31E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS (Ground Elevation - 3457'):

| | | | |
|-----------|-------|--------------|-------|
| Salt | 800' | Yates | 2220' |
| Base Salt | 2040' | Capitan Reef | 2400' |

3. ANTICIPATED POROSITY ZONES:

| | | |
|-------|---|-----------------------------|
| Water | - | above 400' |
| Oil | - | Yates |
| Oil | - | Capitan Reef (Seven Rivers) |

4. CASING DESIGN:

| <u>Size</u> | <u>Interval</u> | <u>Weight</u> | <u>Grade</u> | <u>Joint</u> |
|-------------|-----------------|---------------|--------------|--------------|
| 8 5/8" | 0 - 600' | 24# | K-55 | STC |
| 5 1/2" | 0 - 2500' | 14# | K-55 | STC |

5. PRESSURE CONTROL EQUIPMENT: An annular-type preventor or two ram-type preventors will be used.

6. CIRCULATING MEDIUM:

| | |
|-------------|--|
| 0 - 600' | Fresh water with gel added if needed for viscosity. |
| 600 - 2500' | 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. Electric logs will include a DLL and some type of porosity log.

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

10. ANTICIPATED STARTING DATE: It is planned that drilling operations will commence about October 24, 1983. Operator plans to earn a two-year lease extension by drilling over October 31, 1983, the lease expiration date. Duration of drilling and completion operations should be one to six weeks.