

SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING COMPANY  
WELL #1 GRYNBERG-COM FEDERAL  
1980' FSL & 1980' FEL SEC. 13-6S-24E

1. SURFACE FORMATION: Permian (Artesia Group)
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	850'	Abo	3765'
Glorietta	1550'	Penn	4685'
Yeso	1625'	Granite Wash	5375'
3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Water	150- 300
Gas	3800-4000
Gas	4700-4900
4. PROPOSED CASING AND CEMENTING PROGRAM: See form 9-331 C
5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of an annular-type preventer and a dual ram-type preventer with 3000 psi working pressure. A sketch of BOP stack is attached.
6. CIRCULATING MEDIUM:

0 - 400':	Fresh native mud.
400 - 3000':	Fresh native mud with lost circulation materials as needed.
3000 - 5500':	Brine mud - Add starch and lost circulation material to control water loss.
7. AUXILIARY EQUIPMENT: Master valve on BOP.
8. TESTING, LOGGING AND CORING PROGRAMS:

Samples:	Surface casing to TD
DST's :	As warranted
Logging:	Surface casing to TD
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS: None.
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about April 15, 1980. Duration of drilling and completion operations should be about 30-60 days.