

SUPPLEMENTAL DRILLING DATA

SUN OIL COMPANY
WELL #1 CHAROLETTE McKay FEDERAL

1. SURFACE FORMATION: Queen of Permian Age.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	660'	Atoka	8900'
Glorietta	2300'	Morrow "A"	9230'
Bone Springs	3660'	Morrow "B"	9325'
Wolfcamp	6060'	Morrow "C"	9375'
Cisco	7590'	Barnett	9455'
Strawn	8375'		

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water Above 1000 Feet
Oil Cisco Formation
Gas Wolfcamp & Morrow Formations

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on form 9-331 C

Surface Casing: Lead slurry will be 250 sacks 50-50 pozmix with 2% gel, and 2% calcium chloride. Tail-in slurry will be 150 sacks Class "C" with 2% calcium chloride. This calculates to be 100% excess slurry.

Intermediate Casing: Lead slurry will be 680 sacks 50-50 pozmix with 4% gel, 10½#/sack salt, 5#/sack Kolite, and ¼#/sack cello-flake. Tail-in slurry will be 300 sacks Class "C" with 2% calcium chloride. This calculates to be 100% excess slurry.

Production Casing: A caliper survey will be run and cement behind production string will be brought at least 1000' above the pay zone. Lead slurry will be 50-50 pozmix with 4% gel and 6#/sack salt. Tail-in slurry will be 150 sacks Dowell Self-Stress cement with 0.2% retarder.