

## Horn "YG" Federal Com. #8

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### B. CEMENTING PROGRAM:

Surface Casing: Cement with 300 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C" + 2% CaCl<sub>2</sub> (YLD 1.32 WT 15.6).

Production Casing: 400 sx Pecos Valley Lite (YLD 1.34 WT 13.0). TOC 3600'.

### 5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

| <u>Interval</u> | <u>Type</u>      | <u>Weight</u> | <u>Viscosity</u> | <u>Fluid Loss</u> |
|-----------------|------------------|---------------|------------------|-------------------|
| 0-1000'         | FW GEL/Paper/LCM | 8.6-9.6       | 32-36            | N/C               |
| 1000'-4085'     | Brine            | 10.0-10.2     | 28               | N/C               |
| 4085'-5875'     | Starch/Salt Gel  | 9.3-10.2      | 34-45            | <6CC              |

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

### 6. EVALUATION PROGRAM:

Samples: 10' samples out from under surface casing.

Logging: Platform Express, CNL/LDT W/NGT to TD to surf csg, with GR/CNL up to surf: DLL/MSFL TD to surf csg, BHC Sonic TD to surf csg: FMI-TD to top of Wolfcamp.

Coring: Sidewall

DST's: None

### 7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

|             |           |                                |
|-------------|-----------|--------------------------------|
| From: 0     | TO: 1000' | Anticipated Max. BHP: 500 PSI  |
| From: 1000' | TO: 5875' | Anticipated Max. BHP: 2700 PSI |

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H<sub>2</sub>S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 145 F

### 8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 25 days to drill the well with completion taking another 20 days.