DRILLING PROGRAM

Attached to Form 3160-3

MR Drilling Company

Wills Federal No. 4 1650' FNL & 1650' FEL Unit Letter G, SW/E/2 Section 34, T26S, R37E Lea County, New Mexico

- 1. Geologic Name of Surface Formation: Permian
- 2. Estimated Tops of Important Geologic Markers and
- 3. Estimated Depths of Fresh Water, Oil, and Gas:

Formation	Depth	Fluid Content		
Permian	Surface	Fresh water at +250'		
Anhydrite	500 '			
Top of Salt	1350'			
Base of Salt	2400'			
Queen Sand	3920 '	Oil		
Total Depth	4000'			

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8 5/8" casing at 1300' into the anhydrite and circulating cement to surface. 5-1/2" production casing will be set at TD.

The pore pressure gradient is normal (+8.4 ppg) down through the Queens. No abnormal pressures are anticipated.

4. Casing and Cementing Program

Casing				
Hole Size	From	To	Casing OD	Weight, Grade, Coupling, Cond,
12 1/4" 7-7/8"	0 ' 0	1,300' 4,000'	8-5/8" 5-1/2"	24# J55 LTC new 17# J55 LTC new

All used casing will be drifted and hydrostatically tested to at least 90% of new pipe rating.

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