

C. W. Trainer
Corbin Federal Com No. 1
660' FSL & 1980' FWL of Sec. 20, T18S, R33E
Lea County, New Mexico
Federal Lease NM-14903

Attachment Form 9-331 C

1. Surface formation: Quaternary

2. Estimated tops of geologic markers:

Rustler	1310
Salt	1490
Base Salt	2720
San Andres	4760
Bone Springs	7120
Wolfcamp	10,340
Strawn	12,020
Morrow	12,700

3. Estimated depths of mineral-bearing formations:

Fresh water	100 to 700
Wolfcamp - oil	10,340
Morrow - gas	13,200

4. Casing program:

Surface	350'	13 3/8"	New	48#	H-40	
Intermediate	2500'	8 5/8"	New	24#	J-55	ST&C
	2000'	8 5/8"	New	32#	J-55	ST&C
Production	4000'	5 1/2"	New	17#	N-80	Buttress
	5400'	5 1/2"	New	17#	N-80	LT&C
	4200'	5 1/2"	New	20#	N-80	LT&C

5. Blowout preventers: One 10" x 1500 series Shaffer LWS hydraulic double and one Hydril 10" x 1500 series as per attached diagram. Pipe rams to be activated at least once each 24 hours and blind rams each time the drill pipe is out of the hole.

6. Mud program: 0 to 350 - Spud mud consisting of Bentonite flocculated with lime.
350 to 4500 - Fresh water with soils control by circulating through the reserve pit, other mud properties as required.
4500 to 10,000 - Fresh water and lime with lost circulation material as needed.
10,000 to 13,000 - 10# brine water with lost circulation material as needed.
13,000 to TD - 10# brine water circulating through steel pits. Mud up with Drispac. Properties should be viscosity 34-36, weight 9.8 - 10 ppg, filter loss below 10 cc and ph 10. If higher than anticipated pressures are encountered, increase weight with Baroid and viscosity with Baroco clay and Flosal.

7. Auxiliary equipment: Mud monitoring equipment to record pit level, measure mud volume and a flow sensor; kelly valve; safety sub with full opening valve; drill pipe float valve.

8. Logging & testing: All shows will be drillstem tested. It is anticipated that Wolfcamp and Morrow will be tested. Logs to consist of Neutron-Formation Density and Dual Induction Laterolog.

9. Anticipated pressures and potential hazards: Prior wells drilled in the area indicate that maximum pressure will be 6500 psi and that hydrogen sulfide will not be encountered.

10. Starting date and duration: Starting date to be January 30, 1977 with operation to be completed in 120 days.