

ARCO FEDERAL NO. 2

660' FNL & 660' FEL Sec. 28, T9-S, R37-E Lea County, New Mexico

ATTACHMENT TO FORM 9-331C (ADDITIONAL INFORMATION)

1. The surface formation is of Quaternary age.
2. Estimated geologic tops

Rustler Anhydrite	2280'
Yates Sand	2890'
San Andres	4195'
San Andres Pi	4775'
San Andres Slaughter	4930'
3. Fresh water is anticipated at 200' or less.
Yates sand may or may not have brackish water at 2890'.
San Andres (Slaughter Pay) 4930' to 5000' is expected to have oil, gas, and mineralized water.
4. Casing will be new and is described under #23 Form 9-331C, K-55 grade.
5. Series 900 (3000# service pressure rating) Rucker Shaffer LWP Double Blowout Preventer with hydraulic operation.
 - A. Surface hole
 1. 1 set blind rams
 2. 1 set pipe drill pipe.After 8 5/8" 24# casing has been set and cemented, rams will be tested to 2000# prior to drilling out cement.
 - B. 7 7/8" hole
 1. Set of blind rams tested to 2000#.
 2. Set of drill pipe rams tested to 2000#.

*This is an old field area and no abnormal pressure is expected at this depth. San Andres Slaughter zone bottom hole pressure is anticipated 1400 psig.
6. The circulating system will consist of the rig mud pumps and mud pits. The mud system will consist of salt gel (viscosity 31-33 sec/1000cc) starch will be added at 4900' to lower the water loss to 10-15 cc/30 min. and viscosity at 36-37 sec/1000 cc. Mud weight will be 9.8 to 10 #/gal.

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U.S. CONSERVATION COMMISSION
WASHINGTON, D. C.