

Tentatively Proposed Mud Program

For

R. J. Zonne - Federal "B" #1

Located

1980' FN & EL Sec. 25, T-22-S, R-31-E

Eddy County, New Mexico

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- | | | |
|--------------------------------|---|---|
| Surface to $\pm 600'$ | - | Drill 22" hole using spud mud, Aquagel flocculated with lime.

Run 16" surface casing and circulate cement to the surface. |
| $\pm 600'$ to $\pm 4600'$ | - | Drill 12 $\frac{1}{4}$ " hole with water. Treat with Amine corrosion inhibitor and maintain Ph of 9.5-10. Use other additives as dictated by existing hole conditions.

Run 9 $\frac{5}{8}$ " or 10 $\frac{3}{4}$ " intermediate casing and circulate cement to the surface. |
| $\pm 4600'$ to $\pm 12,900'$ | - | Drill 8 $\frac{1}{2}$ " or 9 $\frac{1}{2}$ " hole with water. Treat for corrosion and use other additives to maintain mud properties required to provide satisfactory hole conditions.

Run 7 $\frac{5}{8}$ " liner from $\pm 4300'$ to 12,900'. Circulate 2500-3000' cement behind liner and run packer at top of liner. Pressure test top of liner to check packer. If packer leaks, squeeze top of liner to insure closed system. (Assuming the packer holds and the well is plugged, plans are to salvage all the free 7 $\frac{5}{8}$ " casing.) |
| $\pm 12,900'$ to $\pm 15,000'$ | - | Drill 6 $\frac{1}{2}$ " hole using brine polymer. Use prehydrated gel, barite, and dextrid to maintain desired viscosity, weight and water loss properties as dictated by hole conditions. |

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