



Milchem

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DRILLING FLUIDS RECOMMENDATIONS

Date May 7, 1979

Company THE SUPERIOR OIL COMPANY

Location Section 18, T24S, R34E

Well Name #2 Government "L"

County Lea

State New Mexico

CASING PROGRAM

Set 20" at 50 Ft. (Rathole Machine)

Set 13-3/8" at 600 Ft.

Set 10-3/4" at 5500 Ft. (Delaware Lime)

Set 7-5/8" at 13,100 Ft. (Wolfcamp)

Set 5" Liner at 14,700 Ft. (Mississippi Lime)

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	pH	KCl %	Oil
0 - 600'	8.5-9.6	34-42	NC	9.0		
Spud with a fresh water SUPER-COL® and Soda Ash spud mud. Paper-Ox and MIL-FIBER® for losses and unconsolidated formations.						
600 - 5500	8.8-10.1	29-31	NC	10.0-11.0		
Drill out with fresh water and drill redbeds. Convert to brine upon encountering Anhydrite to drill salt section to casing point. MIL-LIME® for pH; Paper-Ox and Cottonseed hulls for losses as required.						
5500 - 13,100	9.0-9.5	28-30	NC	10.0-11.0		
Drill out with cut brine 9.5 or less. Drill ahead, adding fresh water to control weight. Have weight below 9.1 prior to penetrating the Bone Spring. Use Paper-Ox and Cottonseed hulls or MIL-FIBER® for losses or seepage. Adjust fluid density with brine 10 lb/gal as required in Wolfcamp. Mud up to run casing.						
13,100-14,700	10.5-13.0	34-44	10-25	9.5-10.0		
Drill out casing shoe and cement with existing system. Displace with a fresh water non-dispersed Ben-Ex fluid with a density of 10.5 lbs/gal. Drill ahead, adjusting fluid density as required by hole conditions.						

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