



P. O. BOX 7237  
MIDLAND, TEXAS 79701

Company N. R. M. Petroleum Corporation County Eddy State New Mexico

Well Name Golden Federal #1 Prepared for Mr. Bernard Lankford

Legal Description Section 30, T 30 S, R 30 E. Date 8-20-75

MUD RECOMMENDATIONS				CASING						FORMATION TOPS
Depth ft.	Mud Weight ppg	Viscosity Sec./Qt.	API Filtrate ml	20"	13	3/8	8	5/8	5	1/2
0-450	8.6-9.6	34-40	No Control	450'						Salt Yates Seven Rivers
WF Gel and Lime for Spud Mud. Control Viscosity at 34-36 seconds 1000 c.c. with Fresh Water at Floline. In case of loss circulation-mix 1 sulurry of Cane Fiber, Cotton Seed Hulls, and WF Flakes. If No Return then Dry Drill to casing point.										2,000' Capitain
450'-1800'	10.0-10.1	28-30	No Control							4,000' Delaware
Drill out with Brine water circulating sealed reserved pit Control seepage with Dick's Mud Seal. If loss circulation occures, mix a slurry of Cane Fiber, Cotton Seed Hulls, and WF Flakes. Maintain pH at 10.5 to 11.0 with Lime. If no returns then dry drill to casing point.										
1800'-4,000'	8.4-8.6	28-30	No Control							6,000' Bone Springs
Drill out with Fresh Water circulating sealed reserve pit. Maintain the pH at 10.5 to 11.0 with Lime. Control seepage with Dick's Mud seal. If loss circulation occures, mix a slurry of Cane Fiber, Cotton Seed Hulls, and WF Flakes. If no returns then dry drill to casing point.										8,000' 3rd Bone Springs
4000'-9500'	8.4-8.6	28-30	No Control							Wolfcamp 10,000' Strawn
Continue Circulating the reserve pit with Fresh Water. Maintain pH at 10.5 to 11.0 with Lime.										
9500'to 12,500TD	9.6-11.0	32-42	12c.c. or Less							Atoka Morrow 12,000'
Add Water from Potash Mines. This will give 3.4 to 4.0 percent KCL. prior to drilling the Strawn Add 1 pound per barrel Drispac, and 1 pound per barrel Starch to reduce the water loss to 8.0 to 10.0 c.c. Maintain pH at 10.0 to 10.5 with Caustic. Before penetrating the Morrow reduce the water loss to 5.0 c.c. or less. Maintain the Mud weight at a minimum to control the gas. If weighted mud is required, increase the Viscosity to 38 to 40 seconds 1000c.c.. Control loss with Mulit-Seal.										12,500'
Estimated Mud Cost: \$18,000.00 - \$20,000.00										
Loss Returnesor Weighted Mud: \$22,000.00 --\$30,000.00										