

Technical Fluids, Inc.

5000 West Industrial
MIDLAND, TEXAS 79703

Company Jubilee Energy County Eddy State N. Mex.
Well Name Hayhollow #1 Prepared for Mr. Tom Garber
Legal Description Sec. 1 - 26 South - 27 East P.T.D. 7500' Date 12-24-81

MUD RECOMMENDATIONS				CASING	FORMATION TOPS
Depth ft.	Mud Weight ppg	Viscosity Sec./Qt.	API Filtrate ml		
0-500'	8.4-9.0	34-40	No Control	8 5/8' @ 500'	
Spud with Tech-Gel flocculated with Lime. Add Paper as needed for seepage. Run 8 5/7" csg. at 500', cement, and nipple-up same.					
500'-6500'	9.5-9.8	28-29	No Control		Lamar @ 2300'
Drill out with brine circulating the reserve pit. Utilize additions of Fresh Water while drilling to keep weight under 10#/Gal. Salt Gel slurries of 40-60 sec/1000 c.c. should be used to clean hole as needed. Tourly additions of Lime should be made to keep a pH of 10-10.5. (If a pre mix pit is not available, dump 5-10 sx. of Salt Gel at suction line to sweep hole clean as needed.). Continue to add Paper as needed for seepage. Key seating may be a problem between 2000'-3000'.					Deleware lime @ 2500'
6500'-7500'	9.5-9.9	34-45	15-20 c.c.	7 7/8" oH	Cherry Canyon @ 3500'
Return to steel pits at 6500'. Mud up utilizing Salt Gel for a viscosity of 33-35 sec/1000 c.c. and light additions of Starch for a 20 c.c. fluid loss. Tourly additions of Caustic Soda should be utilized for a pH of 10-10.5 with a pf of .3-.8. Continue additions of Fresh Water at shaker to control wt. below 10#. Prior to T.D. the viscosity should be raised to 40-45 sec./1000 c.c., and the fluid loss lowered to 15 c.c. or less. Log hole, and run 5 1/2" csg. at 7500'.					Brushy Canyon @ 4500'
					Bone Springs 6200'
				5 1/2" @ 7500'	P.T.D. 7500'

EXHIBIT "G"