

Milpark
Technical
Information

Drilling Fluids Recommendations

	ם	July 31, 1989	
Company Bettis Brothers	Location	Sec 15, T16S, R28E	
Well Name Eddy County Prospect	County	EddyStateNN	1

RECOMMENDED DRILLING FLUIDS PROPERTIES

Depth	Mud Weight	Viscosity	API Filtrate	рН		T
20007600-	8.4	28-30	NC	10.0-10.5	5	. <u> </u>
non-sel to drop area. weight	ective flo out fine Add fresh to requir	occulant (J drilled so water or red level	111-Lime f et Jel, Sa lids and m 10.0 lb./g for incre	culating the for pH main elec Floc) a aximize use al Brine to ased wellbo Mil-Lime c	tenance. t the flow of reserve control f	Add line pit luid

pumped as a sweep, will clean wellbore, as well as seal off fractured and permeable zones and minimize losses. Mud up with Salt Water Gel or sweep hole (100-150 bbl) to ensure successful casing and or logging operations.

While drilling with clear fluid, it may be necessary to periodically sweep the hole with Salt Gel or Dyna Sweep pills to assure adequate hole cleaning. Cutting transport depends on cuttings' size and density, fluid weight and viscosity, and annular flow rates. To transport cuttings uphole with clear water, annular fluid velocities of about 100 ft/min are needed. If annular flow rates are too low to clean the hole, then drilled solids will build up in the annulus, reducing penetration rate and increasing the risk of lost circulation.

Seepage losses are usually controlled with Ground Paper additions; more severe losses may require Gel/LCM (fiber, Multi-Seal, etc.) pills. For lost circulation, mix a viscous pill consisting of Salt Water Gel (10-20 lb./bbl) and Kwik Seal (10-20 lb./bbl) pump as a sweep at a reduced pump rate to regain returns.

76001-96001 8.8-9.2 32-36 10-12 9.0-9.5

Return to steel pits, treat make up water with Soda Ash (hardness below 100 mg/l) and Caustic Soda (.3-.5 lb./bbl). Mix Drispac (.5-1.5 lb./bbl) for filtrate control and Potassium