

Recommended Drilling Mud Program

Mud-Co / Service Mud Inc.

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Company: Rupe Oil Company, Inc. (Val Energy, Inc.) Date: April 28, 2008
 Well Name: #1 Brown Twin Proposed Depth: 4700'
 Location: NE/4, 29-26S-18W County: Edwards State: Kansas
 Casing, Cond: None Surface: 8 5/8" @ 300' Inter: _____ Prod: _____

RECOMMENDED MUD PROPERTIES

TREATMENTS

DEPTH FT	WEIGHT LBS/GAL	VISCOSITY SEC/QT	FILTRATE ML	LCM LBS/BBL	
0'					
300'	9.4-10	34-40	no cont	0-1	-Premix Soda ash and Premium Gel in fresh water for viscosity to drill surface hole. -Add Lime as needed to thicken mud and sweep hole clean for casing. -Add LCM as needed.
300'		as			
3600'	9.0-9.2	needed	no cont	0-2	-Drill this interval with native mud and plenty of fresh water. -Jet often to keep solids and mud weight to a minimum. -Premix Soda Ash and Premium Gel in fresh water and add as needed to clean the hole. -Add LCM as needed.
3600'					
4500'	9.2-9.4	45-48	10-12	0-1	-Have frac and premix tank full of chemical mud and ready to displace the hole at 3600'. -Keep hardness treated out with Soda Ash -Raise and maintain ph @ 9.5-10 with Caustic -Add lignite in each tank and at flowline to disperse gel and help reduce filtrate. -Raise and maintain viscosity @ 45-48 sec/qt with Premix. -Add Dyna Pac as needed to reduce filtrate. -Add LCM as needed.
4500'					
4700'	9.1-9.3	48-50	8-10	0-1	-Same chemical treatments as above. -Raise and maintain viscosity to 48-50 sec/qt. -Reduce filtrate to 8-10cc with Dyna Pac. -Add LCM as needed.

REMARKS

- Check make up water prior to spudding, during drilling and at reserve pit at TD. Record calcium content, chloride content and source of water.
- Displace system at 3600' and have the mud and hole in condition to DST by the Miss at 4650' to TD.
- Suggest a short trip prior to DST or if hole pulls tight on trips out.