


<div>Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171</div>				<div></div>		<div>DRILLING MUD REPORT3</div>			
Version 1.25.1				Date 08/19/14		Measured Depth 2,918 ft.		T.V. Depth	
OPERATOR: augustus				CONTRACTOR: excel		Spud Date		Present Activity drilling	
Operator's Representative:				Contractor's Representative: mark		Rig No. 2			
Well Name & No. dusty farms 42-13		Field: Legal:		County, Parish: yuma		State: co			
BIT DATA		CASING & DRILLING ASSEMBLY		VOLUMES		PUMP INFORMATION		HYDRAULICS	
Pit Vol.		PUMP #1		PUMP #2		ANNULAR VELOCITY			
Drill Pipe		Drill Collar		CIRCULATING PRESSURE		BOT. UP			
SURF. TO BIT		TOT. CIR TIME							
Sample Fro		Flowline		Pit		Mud Properties		Calculate Alkalinity	
Flowline Temperature (°F)		105		Carbonates: #####		EPM		Jet Velocity	
Time Sample Taken		10am		Bicarbonates: #####		EPM		Horsepower	
Depth (ft)		2918		Hydroxyls: #####		EPM		Impact Force	
Mud Weight (ppg)		8.6		Excess Lime: #####		lb/bbl		Press Loss at Bit	
Mud Gradient (psi/ft)		0.4472		Lime Needed: #####		lb/bbl		Press Loss at Bit	
Funnel Viscosity @		°F		27		Recommended Equipment			
Plastic Visc.cp @		75		°F		3		Cntrfruge	
Yield Point (lb/100ft2)		1		0		By Authority of:		Company Representative	
Gel Strength (lb/100ft2) 10-sec		0		0		Mud Wt:		8.6	
Gel Strength (lb/100ft2) 10-min		x		x		Filtrate:		9	
Gel Strength (lb/100ft2) 30-min		9		x		Viscosity:		27	
Filtrate API (cm3/30 min)		x		md looks good		Excess Lime:		lb/bbl	
Filtrate API HTHP (cm3/30 min)		1				RECOMMENDED TOURLY TREATMENT			
Cake Thickness (/32nds)		2.0				DAILY REMARKS			
Solids Content (% by vol)		98							
Water Content (% by Vol.)		.10							
Sand Content (% by vol)		x							
Bentonite Content (lb/bbl)		8							
pH		Strip		Meter					
Alkalinity Mud (Pm) cm3 N/50 Acid		0							
Alkalinity, Pf / Mf		.0/.8							
Chloride (mg/l)		12500							
Total Hardness as Calcium (mg/l)		280							
Oil Content (% by vol)		x							
LCM (lb/bbl)		x							
Excess Lime (lb/bbl)		x							
Solids Analysis		L.G. Solids		H.G. Solids		L.G. Solids		H.G. Solids	
Corrected Solids		%		Average Sp. Gr.					
CHEMICALS		GEL		LIME		CAUSTIC		SODA ASH	
Starting Inventory									
Chemicals Received									
Closing Inventory									
Chemicals Used									
Daily Cost									
CHEMICALS		SAPP		T-O-C		BIO-CLEAR		SOD. BI-CARB	
Starting Inventory									
Chemicals Received									
Closing Inventory									
Chemicals Used									
Daily Cost									
TECHNICAL REP:		justin haynes		WAREHOUSE		13027 CR 18		NAME:	
CELL PHONE NO.		3037204775		ADDRESS:		Ft. Lupton, CO 80621		PHONE:	
ANS. SERVICE:				PHONE:		(303) 857-4171		PHONE:	
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