


<div>Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171</div>				<div></div>				<div>DRILLING MUD REPORT2</div>			
Version 1.25.1				Date 09/01/14		Measured Depth 2,940 ft.		T.V. Depth			
OPERATOR: Augustus				CONTRACTOR: Excell		Spud Date 08/30/14		Present Activity Drilling			
Operator's Representative:				Contractor's Representative: Mark		State: CO		Rig No. 2			
Well Name & No.		Field:		County, Parish:		Yuma		CO			
Taylor Family 21-14		Legal: NENW S14-T4N-R47W		VOLUMES		PUMP INFORMATION		HYDRAULICS			
BIT DATA		CASING & DRILLING ASSEMBLY				Pit Vol.		ANNULAR VELOCITY			
Bit Size 6.25		Size 7		set @ 511 Ft		Pipe Capacity		Drill Pipe 135 ft/min			
Bit Type TCM151		Size		set @ Ft		23 bbls		Drill Collar 135 ft/min			
Bit No.		Size		set @ Ft		Ann Volume		CIRCULATING PRESSURE			
Jets (32nd)		Size		set @ Ft		86 bbls		816 psi			
13 13		Drill Collar		3.5 3 333		Hole Volume		BOT. UP 21 min			
13 12		Drill Collar				109 bbls		SURF. TO BIT 5.7 min			
12		Drill Pipe		3.5 2.8 2607		Total Cir Vol		TOT. CIR TIME 52 min			
		H.W. Drill Pipe				209 bbls		Total GPM 169			
						4.02					
Sample Fro <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit		Mud Properties				Calculate Alkalinity <input type="checkbox"/> Check		HYDRAULICS			
Flowline Temperature (°F)								Jet Velocity 89 Ft/Sec			
Time Sample Taken		2045						Nozzle Area			
Depth (ft)		2940						Horsepower 0.2 HP/SQ.In			
Mud Weight (ppg)		8.5						Impact Force 2.2 lbf/Sq. In			
Mud Gradient (psi/ft)		0.442						Press Loss at Bit 60psi			
Funnel Viscosity @ °F		4						Press Loss at Bit 7%			
Plastic Visc.cp @ 75 °F		1						Recommended Equipment			
Yield Point (lb/100ft2)		0						Centrifuge <input checked="" type="checkbox"/> Shaker <input checked="" type="checkbox"/> Desander <input type="checkbox"/>			
Gel Strength (lb/100ft2) 10-sec		0						Degasser <input type="checkbox"/> Desilter <input type="checkbox"/> Other <input type="checkbox"/>			
Gel Strength (lb/100ft2) 10-min		x						Recommended Mud Properties			
Gel Strength (lb/100ft2) 30-min		x						By Authority of: <input type="checkbox"/> Company Representative <input type="checkbox"/> Drilling Contractor			
Filtrate API (cm3/30 min)		4.0						Mud Wt: Filtrate: Viscosity:			
Filtrate API HTHP (cm3/30 min)		x						LCM: Excess Lime: lb/bbl			
Cake Thickness (/32nds)		1						RECOMMENDED TOURLY TREATMENT			
Solids Content (% by vol)		1.3									
Water Content (% by Vol.)		98.7									
Sand Content (% by vol)		tr									
Bentonite Content (lb/bbl)		x									
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		7.5									
Alkalinity Mud (Pm) cm3 N/50 Acid		x									
Alkalinity, Pf / Mf		0/1.4									
Chloride (mg/l)		11600									
Total Hardness as Calcium (mg/l)		220									
Oil Content (% by vol)		x									
LCM (lb/bbl)		x									
Excess Lime (lb/bbl)		0									
DAILY REMARKS											
Los tapprox 150 bbls mud at 2812'. Mixed sawdust and multiseal, added more starch and Drispac to re-build volume.											
Solids Analysis											
L.G. Solids		% H.G. Solids		% L.G. Solids		% H.G. Solids		% ppb			
Corrected Solids		% Average Sp. Gr.									
CHEMICALS		GEL	LIME	CAUSTIC	SODA ASH	QDF PAC-1	HYDRO VIS 30	74L	SOAP STICK		
Starting Inventory									SAW DUST		
Chemicals Received									BAR		
Closing Inventory									WAL NUT		
Chemicals Used									DRIS PAC SL		
Daily Cost									DRIS PAC REG		
CHEMICALS		TREAT O CLAY							BEADS		
Starting Inventory									LUBE		
Chemicals Received											
Closing Inventory											
Chemicals Used											
Daily Cost											
TECHNICAL REP:		Carla Restivo			WAREHOUSE		13027 CR 18				
CELL PHONE NO.		303-304-4528			ADDRESS:		Ft. Lupton, CO 80621				
ANS. SERVICE:					PHONE:		(303) 857-4171				
NAME:					PHONE:						
PHONE:					PHONE:						
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