


<div>Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171 Version 1.25.1</div>				<div> Hydro resources</div>				<div>DRILLING MUD REPORT2</div> <table><tr><td>Date 08/16/14</td><td>Measured Depth 2,635 ft.</td><td>T.V. Depth</td></tr><tr><td>Spud Date 08/15/14</td><td>Present Activity Drilling</td><td>Rig No. 2</td></tr></table>				Date 08/16/14	Measured Depth 2,635 ft.	T.V. Depth	Spud Date 08/15/14	Present Activity Drilling	Rig No. 2
Date 08/16/14	Measured Depth 2,635 ft.	T.V. Depth															
Spud Date 08/15/14	Present Activity Drilling	Rig No. 2															
OPERATOR: Augustus		CONTRACTOR: Excell															
Operator's Representative:		Contractor's Representative:		Mark													
Well Name & No. McCall 33-09		Field: Legal: NWSE S9-T1N-R46W		County, Parish:		Yuma		State: CO									
BIT DATA		CASING & DRILLING ASSEMBLY				VOLUMES		PUMP INFORMATION		HYDRAULICS							
Pit Vol.		PUMP #1		PUMP #2		ANNULAR VELOCITY											
Bit Size 6.25		Size 7		set @ 406		Ft		Pipe Capacity		GDFXN		Drill Pipe 187 ft/min					
Bit Type		Size		set @		Ft		20 bbls		5.5 x14		Drill Collar 134 ft/min					
Bit No.		Size		set @		Ft		Ann Volume		64 SPM		CIRCULATING PRESSURE					
Jets (32nd)		Size		set @		Ft		78 bbls		3.67 G/ST		1280 psi					
13 13		Drill Collar						Hole Volume		235 GPM		BOY. UP 14 min					
13 12		Drill Collar						98 bbls		5.60 BPM		SURF. TO BIT 3.6 min					
12		Drill Pipe		3.5		2.8		2635		Total Cir Vol		TOT. CIR TIME 35 min					
		H.W. Drill Pipe						198 bbls		235		5.60					
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 124 Ft/Sec		Nozzle Area							
Time Sample Taken		2345						Horsepower 0.5 HP/SQ.In		0.61 Sq In							
Depth (ft)		2635						Impact Force 4.2 lbf/Sq. In		ECD							
Mud Weight (ppg)		8.6						Press Loss at Bit 118psi		8.64 ppg							
Mud Gradient (psi/ft)		0.4472						Press Loss at Bit 9%									
Funnel Viscosity @ °F		27		Recommended Equipment													
Plastic Visc.cp @ 75 °F		2		Cntrfuge <input checked="" type="checkbox"/>		Shaker <input checked="" type="checkbox"/>		Desander <input type="checkbox"/>									
Yield Point (lb/100ft2)		1		Degasser <input type="checkbox"/>		Desilter <input type="checkbox"/>		Other <input type="checkbox"/>									
Gel Strength (lb/100ft2) 10-sec		0		Recommended Mud Properties													
Gel Strength (lb/100ft2) 10-min		0		By Authority of: <input type="checkbox"/>		Company Representative		<input type="checkbox"/> Drilling Contractor									
Gel Strength (lb/100ft2) 30-min		x		Mud Wt:		Filtrate:		Viscosity:									
Filtrate API (cm3/30 min)		8.4		LCM:				Excess Lime:		lb/bbl							
Filtrate API HTHP (cm3/30 min)		x		RECOMMENDED TOURLY TREATMENT													
Cake Thickness (/32nds)		1															
Solids Content (% by vol)		2.0															
Water Content (% by Vol.)		98.0															
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		0.0/1.5															
Chloride (mg/l)		12200															
Total Hardness as Calcium (mg/l)		560															
Oil Content (% by vol)		0															
LCM (lb/bbl)		0															
Excess Lime (lb/bbl)		0															
DAILY REMARKS																	
62' from TD at report time.																	
Solids Analysis																	
L.G. Solids		%		H.G. Solids		%											
L.G. Solids		ppb		H.G. Solids		ppb											
Corrected Solids		%		Average Sp. Gr.													
CHEMICALS		GEL	LIME	CAUSTIC	SODA ASH	QDF PAC-1	HYDRO VIS-30	74L	SOAP STICK	SAW DUST	BAR	WAL NUT	DRIS PAC SL	DRIS PAC REG	BEADS	LUBE	
Starting Inventory																	
Chemicals Received																	
Closing Inventory																	
Chemicals Used																	
Daily Cost																	
CHEMICALS		TREAT O CLAY															
Starting Inventory																	
Chemicals Received																	
Closing Inventory																	
Chemicals Used																	
Daily Cost																	
TECHNICAL REP:		Carla Restivo				WAREHOUSE		13027 CR 18				NAME:					
CELL PHONE NO.		303-304-4528				ADDRESS:		Ft. Lupton, CO 80621				PHONE:					
ANS. SERVICE:						PHONE:		(303) 857-4171				PHONE:					
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