


<div>Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171</div>				<div></div>				<div>DRILLING MUD REPORT2</div>			
				Date 10/16/14		Measured Depth 2,970 ft.		T.V. Depth 2970 ft			
				Spud Date 10/14/14		Present Activity Drilling		Rig No. 2			
OPERATOR: Augustus				CONTRACTOR: Excell							
Operator's Representative:				Contractor's Representative: Mark Zion							
Well Name & No.		Field:		Buffalo Grass		County, Parish:		Yuma		State: CO	
Franson 23-33		Legal:		NESW S33-T4N-R47W		VOLUMES		PUMP INFORMATION		HYDRAULICS	
BIT DATA		CASING & DRILLING ASSEMBLY				Pit Vol.		PUMP #1		PUMP #2	
ANNULAR VELOCITY											
Drill Pipe											
Drill Collar											
CIRCULATING PRESSURE											
1367 psi											
BOT. UP											
SURF. TO BIT											
TOT. CIR TIME											
27 min											
209 bbls											
328											
7.81											
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		172 Ft/Sec	
Time Sample Taken				1330				Horsepower		1.5 HP/SQ.In	
Depth (ft)				2970				Impact Force		8.4 lbf/Sq. In	
Mud Weight (ppg)				8.8				Press Loss at Bit		234psi	
Mud Gradient (psi/ft)				0.4576				Press Loss at Bit		17%	
Funnel Viscosity @				30				Recommended Equipment			
Plastic Visc.cp @		75 °F		2				<input checked="" type="checkbox"/> Centrifuge <input checked="" type="checkbox"/> Shaker <input type="checkbox"/> Desander			
Yield Point (lb/100ft2)				1				<input type="checkbox"/> Degasser <input type="checkbox"/> Desilter <input type="checkbox"/> Other			
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: <input type="checkbox"/> Filtrate: <input type="checkbox"/> Viscosity: <input type="checkbox"/>			
Filtrate API (cm3/30 min)				8.0				LCM: <input type="checkbox"/> Excess Lime: <input type="checkbox"/> lb/bbl			
Filtrate API HTHP (cm3/30 min)				x				RECOMMENDED TOURLY TREATMENT			
Cake Thickness (/32nds)				1							
Solids Content (% by vol)				3.5							
Water Content (% by Vol.)				96.5							
Sand Content (% by vol)				.25							
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				0.0/1.3							
Chloride (mg/l)				11600							
Total Hardness as Calcium (mg/l)				840							
Oil Content (% by vol)				0							
LCM (lb/bbl)				0							
Excess Lime (lb/bbl)				0							
DAILY REMARKS											
Lost about 35 bbls mud at 2794'											
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 DYNASH VIS 30 74L SOAP SAW BAR 110 DRIS DRIS NU											
Starting Inventory											
Chemicals Received											
Closing Inventory											
Chemicals Used											
Daily Cost											
CHEMICALS											
Starting Inventory											
Chemicals Received											
Closing Inventory											
Chemicals Used											
Daily Cost											
Est. Drayage:											
Est. Taxes: \$ -											
Est. Daily Cost: \$ -											
Est. Cumulative Cost: \$ -											
TECHNICAL REP: Carla Restivo											
CELL PHONE NO. 303-304-4528											
ANS. SERVICE:											
WAREHOUSE 13027 CR 18											
ADDRESS: Ft. Lupton, CO 80621											
PHONE: (303) 857-4171											
NAME:											
PHONE:											
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