

<div>Hydro Resources</div> <div>13027 County Rd 18</div> <div>FT Lupton, CO 80621</div> <div>Phone: 303-857-4171</div>						<div><div></div><div>Hydroresources</div></div>						DRILLING MUD REPORT				2							
Version 3.15						Date		Measured Depth		T.V. Depth													
						12/09/14		2,702 ft.		2702 ft													
						Spud Date		Present Activity		Rig No.													
						12/07/14		TD/Circ		2													
OPERATOR:		Omimex				CONTRACTOR:		Excell															
Operator's Representative:						Contractor's Representative:		Mark															
Well Name & No.		Field:		Ballyneal		County, Parish:		Phillips		State:		CO											
Sagehorn 14-34-6-45		Legal:		SESW S34-T6N-R45W		VOLUMES		PUMP INFORMATION		HYDRAULICS													
BIT DATA		CASING & DRILLING ASSEMBLY				Pit Vol.		PUMP #1		PUMP #2		ANNULAR VELOCITY											
Bit Size		6.25		Size		7		set @				Ft											
Bit Type		TC MI5		Size				set @				Ft											
Bit No.				Size				set @				Ft											
Jets (32nd)				Size				set @				Ft											
12		12		Drill Collar		3.5						Ft											
13		13										Ft											
13						3.5				2367													
				H.W. Drill Pipe																			
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											
Time Sample Taken						0430						146 Ft/Sec											
Depth (ft)						2702						Nozzle Area											
Mud Weight (ppg)						8.8						Horsepower											
Mud Gradient (psi/ft)						0.4576						0.9 HP/SQ.In											
Funnel Viscosity @						29						Impact Force											
Plastic Visc.cp @		75				2						6 lbf/Sq. In											
Yield Point (lb/100ft2)						3						Press Loss at Bit											
Gel Strength (lb/100ft2) 10-sec						0						168psi											
Gel Strength (lb/100ft ²) 10-min						1						Press Loss at Bit											
Gel Strength (lb/100ft ²) 30-min						x						14%											
Filtrate API (cm3/30 min)						4.8																	
Filtrate API HTHP (cm3/30 min)						x																	
Cake Thickness (/32nds)						1																	
Solids Content (% by vol)						3.5																	
Water Content (% by Vol.)						96.5																	
Sand Content (% by vol)						tr																	
Bentonite Content (lb/bbl)						x																	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter						8.0																	
Alkalinity Mud (Pm) cm3 N/50 Acid						x																	
Alkalinity, Pf / Mf						.0/1.5																	
Chloride (mg/l)						12200																	
Total Hardness as Calcium (mg/l)						360																	
Oil Content (% by vol)						0																	
LCM (lb/bbl)						0																	
Excess Lime (lb/bbl)						0																	
						DAILY REMARKS																	
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		HYDRO-THIN									
Starting Inventory																							
Chemicals Received																							
Closing Inventory																							
Chemicals Used																							
Daily Cost																							
CHEMICALS																							
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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