


<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 REPORT 2</div> <table><tr><td>Date 07/17/14</td><td>Measured Depth 2,024 ft.</td><td colspan="2">T.V. Depth</td></tr><tr><td>Spud Date 07/19/14</td><td>Present Activity Drilling</td><td colspan="2">Rig No. 2</td></tr></table>				Date 07/17/14	Measured Depth 2,024 ft.	T.V. Depth		Spud Date 07/19/14	Present Activity Drilling	Rig No. 2	
Date 07/17/14	Measured Depth 2,024 ft.	T.V. Depth															
Spud Date 07/19/14	Present Activity Drilling	Rig No. 2															
OPERATOR: Augustus Energy		CONTRACTOR: Excell															
Operator's Representative:		Contractor's Representative: Mark															
Well Name & No.		Field: Vernon 86500		County, Parish: Yuma		State: CO											
Hays 31-03 2s44w		Legal: SWSW,Sec2,Twp2s,Rng44w		VOLUMES		PUMP INFORMATION											
BIT DATA		CASING & DRILLING ASSEMBLY		Pit Vol.		ANNULAR VELOCITY											
Bit Size 6.25		Size 7.25 set @ 453 Ft		Pipe Capacity 200FXN		Drill Pipe 262 ft/min											
Bit Type MI516		Size set @ Ft		14 bbls 5.25 x14		Drill Collar 1244 ft/min											
Bit No.		Size set @ Ft		Ann Volume 63 SPM		CIRCULATING PRESSURE											
Jets (32nd)		Size set @ Ft		50 bbls 4.56 G/ST		1405 psi											
13 13		Drill Collar 5.78 2.5 337		Hole Volume 287 GPM		BOT. UP 7 min											
13 12		Drill Collar		64 bbls 6.83 BPM		SURF. TO BIT 2.0 min											
12		Drill Pipe 3.5 2.74 1687		Total Cir Vol Total GPM Total BPM		TOT. CIR TIME 31 min											
		H.W. Drill Pipe		214 bbls 287 6.83													
Sample Fro <input type="checkbox"/> Flowline <input type="checkbox"/> Pit		Mud Properties		Calculate Alkalinity <input type="checkbox"/> Check		HYDRAULICS											
Flowline Temperature (°F)		112.5				Jet Velocity 151 Ft/Sec Nozzle Area											
Time Sample Taken		8:10pm				Horsepower 1 HP/SQ.In 0.61 Sq In											
Depth (ft)		2024				Impact Force 6.3 lbf/Sq. In ECD											
Mud Weight (ppg)		8.7				Press Loss at Bit 177psi 9.32 ppg											
Mud Gradient (psi/ft)		0.4524				Press Loss at Bit 13%											
Funnel Viscosity @ °F		28		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)		0		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 checked="" type="checkbox"/> Drilling Contractor													
Gel Strength (lb/100ft2) 30-min		x		Mud Wt: 8.5-9.2 Filtrate: 6-8cc Viscosity: 28-32													
Filtrate API (cm3/30 min)		9.6		LCM: Excess Lime: lb/bbl													
Filtrate API HTHP (cm3/30 min)		x		RECOMMENDED TOURLY TREATMENT													
Cake Thickness (/32nds)		1		Mud looks good for TD.													
Solids Content (% by vol)		2.8															
Water Content (% by Vol.)		97.2															
Sand Content (% by vol)		.1															
Bentonite Content (lb/bbl)		x															
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		7															
Alkalinity Mud (Pm) cm3 N/50 Acid		x															
Alkalinity, Pf / Mf		.0/1.45															
Chloride (mg/l)		14700															
Total Hardness as Calcium (mg/l)		1080															
Oil Content (% by vol)		0															
LCM (lb/bbl)		x															
Excess Lime (lb/bbl)		x		If you have any questions please give me a call @ (970)302-3793, Thank you.													
				DAILY REMARKS													
Solids Analysis																	
L.G. Solids %		H.G. Solids %															
L.G. Solids ppb		H.G. Solids ppb															
Corrected Solids %		Average Sp. Gr.															
CHEMICALS																	
Starting Inventory																	
Chemicals Received																	
Closing Inventory																	
Chemicals Used																	
Daily Cost																	
CHEMICALS																	
Starting Inventory																	
Chemicals Received				Est. Drayage:													
Closing Inventory				Est. Taxes: \$ -													
Chemicals Used				Est. Daily Cost: \$ 100.00													
Daily Cost				Est. Cumulative Cost: \$ 100.00													
TECHNICAL REP: Jeremy Cigich		WAREHOUSE: 13027 CR 18		NAME:													
CELL PHONE NO. (970)302-3793		ADDRESS: Ft. Lupton, CO 80621		PHONE:													
ANS. SERVICE:		PHONE: (303) 857-4171		PHONE:													
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