

<b>Hydro Resources</b> 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171 Version 1.25.1		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>DRILLING MUD REPORT</b></td> <td style="text-align: center;">2</td> </tr> <tr> <td style="width:20%;">Date</td> <td style="width:40%;">Measured Depth</td> <td style="width:40%;">T.V. Depth</td> </tr> <tr> <td style="text-align: center;">10/16/14</td> <td style="text-align: center;">2,970 ft.</td> <td style="text-align: center;">2970 ft</td> </tr> <tr> <td>Spud Date</td> <td>Present Activity</td> <td>Rig No.</td> </tr> <tr> <td style="text-align: center;">10/14/14</td> <td style="text-align: center;">Drilling</td> <td style="text-align: center;">2</td> </tr> </table>	<b>DRILLING MUD REPORT</b>		2	Date	Measured Depth	T.V. Depth	10/16/14	2,970 ft.	2970 ft	Spud Date	Present Activity	Rig No.	10/14/14	Drilling	2
<b>DRILLING MUD REPORT</b>		2															
Date	Measured Depth	T.V. Depth															
10/16/14	2,970 ft.	2970 ft															
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<b>OPERATOR:</b> Augustus		<b>CONTRACTOR:</b> Excell	
<b>Operator's Representative:</b>		<b>Contractor's Representative:</b> Mark Zion	
<b>Well Name &amp; No.</b>	<b>Field:</b> Buffalo Grass	<b>County, Parish:</b> Yuma	<b>State:</b> CO
Franson 23-33	<b>Legal:</b> NESW S33-T4N-R47W		
<b>BIT DATA</b>		<b>VOLUMES</b>	<b>PUMP INFORMATION</b>
<b>CASING &amp; DRILLING ASSEMBLY</b>		<b>Pit Vol.</b>	<b>PUMP #1</b> <b>PUMP #2</b>
Bit Size	6.25	Size	7 set @ 406 Ft
Bit Type	TC Mi5	Pipe Capacity	GD FXN200
Bit No.		Ann Volume	21 bbls
Jets (32nd)		88 bbls	67 SPM
12	12	Hole Volume	4.90 G/ST
13	13	109 bbls	328 GPM
13		Total Cir Vol	7.81 BPM
		209 bbls	Total GPM
			Total BPM
			7.81

Sample Fro <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	<b>Mud Properties</b>	<b>Calculate Alkalinity</b> <input type="checkbox"/> <b>Check</b> <input type="checkbox"/>	<b>HYDRAULICS</b>	
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	<b>Recommended Equipment</b>		
Plastic Visc.cp @ 75 °F	2	<input checked="" type="checkbox"/> Cntrfuge	<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	<b>Recommended Mud Properties</b>		
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)	8.0	LCM:		Excess Lime:
Filtrate API HTHP (cm3/30 min)	x	<b>RECOMMENDED TOURLY TREATMENT</b>		
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			

<b>Solids Analysis</b>					<b>DAILY REMARKS</b>									
L.G. Solids	%	H.G. Solids	%		<b>Lost about 35 bbls mud at 2794'</b>									
L.G. Solids	ppb	H.G. Solids	ppb											
Corrected Solids	%	Average Sp. Gr.												

CHEMICALS	GEL	LIME	CAUSTIC	SODA ASH	DYNA PAC	HYDRO VIS 30	74L	SOAP STICK	SAW DUST	BAR	110 RD	DRIS PAC SL	DRIS PAC REG	NU WELL
Starting Inventory														
Chemicals Received														
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<b>TECHNICAL REP:</b> Carla Restivo	<b>WAREHOUSE:</b> 13027 CR 18	<b>NAME:</b>
<b>CELL PHONE NO.:</b> 303-304-4528	<b>ADDRESS:</b> Ft. Lupton, CO 80621	<b>PHONE:</b>
<b>ANS. SERVICE:</b>	<b>PHONE:</b> (303) 857-4171	<b>PHONE:</b>

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