

<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>						<div>DRILLING MUD REPORT</div> <div>2</div>					
Version 3.15						Date 11/24/14		Measured Depth 2,706 ft.		T.V. Depth 2706 ft							
						Spud Date 11/22/14		Present Activity Drilling		Rig No. 2							
OPERATOR:		Omimex				CONTRACTOR:		Excell									
Operator's Representative:						Contractor's Representative:		Mark									
Well Name & No.		Field:		Holyoke South		County, Parish:		Phillilps		State:	CO						
Gueck 10-19-7-44		Legal:		NWSE S19-T7N-R44W		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	Pipe Capacity	GD FXN200		Drill Pipe	273 ft/min						
Bit Type	TC MI5	Size		set @		Ft	23 bbls	5.5 x14		Drill Collar	273 ft/min						
Bit No.		Size		set @		Ft	Ann Volume	70 SPM		CIRCULATING PRESSURE							
Jets (32nd)		Size		set @		Ft	81 bbls	4.90 G/ST		1200 psi							
12	12	Drill Collar Drill Collar Drill Pipe H.W. Drill Pipe		3.5			Hole Volume	343 GPM		BOT. UP	10 min						
12	13						104 bbls	8.17 BPM		SURF. TO BIT	2.8 min						
13	13			3.5		2371	Total Cir Vol	Total GPM	Total BPM	TOT. CIR TIME	31 min						
							254 bbls	343	8.17								
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	153 Ft/Sec	Nozzle Area					
Time Sample Taken				0545						Horsepower	1.2 HP/SQ.In	0.72 Sq In					
Depth (ft)				2706						Impact Force	7.8 lbf/Sq. In	ECD					
Mud Weight (ppg)				8.8						Press Loss at Bit		184psi	8.96 ppg				
Mud Gradient (psi/ft)				0.4576						Press Loss at Bit		15%					
Funnel Viscosity @			°F	30		Recommended Equipment											
Plastic Visc.cp @		75	°F	4		Cntrfuge	<input type="checkbox"/>	Shaker	<input checked="" type="checkbox"/>	Desander	<input type="checkbox"/>						
Yield Point (lb/100ft2)				4		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/100ft <sup>2</sup> ) 10-min				4		By Authority	<input checked="" type="checkbox"/>	Company Representative		<input type="checkbox"/>	Drilling Contractor						
Gel Strength (lb/100ft <sup>2</sup> ) 30-min				x		Mud Wt:		Filtrate:		Viscosity:							
Filtrate API (cm3/30 min)				4.4		LCM:				Excess Lime:		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)				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				0.0/1.5													
Chloride (mg/l)				13,300													
Total Hardness as Calcium (mg/l)				400													
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	COTTON BULLS	MF- 351	CAL NITRATE	SALT	SAPP	SAWD UST	BIO-CLEAR	1771		
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:	\$	-		
Daily Cost													Est. Cumulative 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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