

Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171 Version 1.25.1		DRILLING MUD REPORT 2 Date: 09/01/14 Measured Depth: 2,940 ft. T.V. Depth: Spud Date: 08/30/14 Present Activity: Drilling Rig No.: 2
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OPERATOR: Augustus	CONTRACTOR: Excell
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Operator's Representative:	Contractor's Representative: Mark
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Well Name & No. Taylor Family 21-14	Field: Legal: NENW S14-T4N-R47W	County, Parish: Yuma	State: CO
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BIT DATA		CASING & DRILLING ASSEMBLY					VOLUMES		PUMP INFORMATION		HYDRAULICS	
Bit Size	Size	set @	Size	set @	Size	Pit Vol.	Pipe Capacity	PUMP #1	PUMP #2	ANNULAR VELOCITY		
6.25	7	511	Ft					GDFXN		Drill Pipe	135 ft/min	
TCMI51			Ft			23 bbls		5.5 x14		Drill Collar	135 ft/min	
Bit No.	Size	set @	Size	set @	Size	Ann Volume		46 SPM		CIRCULATING PRESSURE		
						86 bbls		3.67 G/ST		816 psi		
Jets (32nd)	Size	set @	Size	set @	Size	Hole Volume		169 GPM		BOI. UP	21 min	
13	13		Drill Collar	3.5	3	109 bbls		4.02 BPM		SURF. TO BIT	5.7 min	
13	12		Drill Collar			Total Cir Vol		Total GPM	Total BPM	TOT. CIR TIME	52 min	
12			Drill Pipe	3.5	2.8	209 bbls		169	4.02			
			H.W. Drill Pipe									

Sample Fro	Flowline	Pit	Mud Properties	Calculate Alkalinity	Check	HYDRAULICS			
Flowline Temperature (°F)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Jet Velocity	89 Ft/Sec	Nozzle Area	
Time Sample Taken			2045			Horsepower	0.2 HP/SQ.In	0.61 Sq In	
Depth (ft)			2940			Impact Force	2.2 lb/Sq. In	ECD	
Mud Weight (ppg)			8.5			Press Loss at Bit	60psi	8.5 ppg	
Mud Gradient (psi/ft)			0.442			Press Loss at Bit	7%		
Funnel Viscosity @		°F	4	Recommended Equipment					
Plastic Visc.cp @	75	°F	1	Cntrfuge	<input checked="" type="checkbox"/>	Shaker	<input checked="" type="checkbox"/>	Desander	<input type="checkbox"/>
Yield Point (lb/100ft ²)			0	Degasser	<input type="checkbox"/>	Desilter	<input type="checkbox"/>	Other	<input type="checkbox"/>
Gel Strength (lb/100ft ²) 10-sec			0	Recommended Mud Properties					
Gel Strength (lb/100ft ²) 10-min			x	By Authority of:	<input type="checkbox"/>	Company Representative	<input type="checkbox"/>	Drilling Contractor	<input type="checkbox"/>
Gel Strength (lb/100ft ²) 30-min			x	Mud Wt:		Filtrate:		Viscosity:	
Filtrate API (cm3/30 min)			4.0	LCM:				Excess Lime:	lb/bbl
Filtrate API HTHP (cm3/30 min)			x	RECOMMENDED TOURLY TREATMENT					
Cake Thickness (/32nds)			1						
Solids Content (% by vol)			1.3						
Water Content (% by Vol.)			98.7						
Sand Content (% by vol)			tr						
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			0/1.4						
Chloride (mg/l)			11600						
Total Hardness as Calcium (mg/l)			220						
Oil Content (% by vol)			x						
LCM (lb/bbl)			x						
Excess Lime (lb/bbl)			0						

DAILY REMARKS

Los tapprox 150 bbls mud at 2812'. Mixed sawdust and multiseal, added more starch and Drispac to re-build volume.

Solids Analysis			CHEMICALS															
L.G. Solids	%	H.G. Solids	%	GEL	LIME	CAUSTIC	SODA ASH	QDF PAC-1	HYDRO VIS 30	74L	SOAP STICK	SAW DUST	BAR	WAL NUT	DRIS PAC SL	DRIS PAC REG	BEADS	LUBE
Corrected Solids		Average Sp. Gr.																
Starting Inventory																		
Chemicals Received																		
Closing Inventory																		
Chemicals Used																		
Daily Cost																		

CHEMICALS			TREAT O CLAY															
Starting Inventory																		
Chemicals Received																		
Closing Inventory																		
Chemicals Used																		
Daily Cost																		

TECHNICAL REP: Carla Restivo	WAREHOUSE: 13027 CR 18	NAME:
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ANS. SERVICE:	PHONE: (303) 857-4171	PHONE:

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