


<b>Hydro Resources</b> 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171						<b>DRILLING MUD REPORT</b> 2									
Version 1.25.1				Date 07/29/14		Measured Depth 2,507 ft.		T.V. Depth							
OPERATOR: Augustus				CONTRACTOR: Excell		Spud Date 07/27/14		Present Activity TD/circ							
Operator's Representative:				Contractor's Representative: Mark		Rig No. 2									
Well Name & No. Galvin 12-18		Field: Legal: S18-T1S-R44W		County, Parish: Yuma		State: CO									
BIT DATA		CASING & DRILLING ASSEMBLY				VOLUMES		PUMP INFORMATION							
PUMP #1		PUMP #2		ANNULAR VELOCITY											
Bit Size	6.25	Size	7	set @	489 Ft	Pipe Capacity	GD200FXN	Drill Pipe	178 ft/min						
Bit Type	TC MI5	Size		set @		22 bbls	5.5 x14	Drill Collar	178 ft/min						
Bit No.	2	Size		set @		Ann Volume	61 SPM	CIRCULATING PRESSURE							
Jets (32nd)		Size		set @		73 bbls	3.67 G/ST	1170 psi							
13	13	Drill Collar	3.5	2.8	335	Hole Volume	224 GPM	BOT. UP	14 min						
13	12	Drill Collar				95 bbls	5.33 BPM	SURF. TO BIT	4.1 min						
12		Drill Pipe	3.5	3	2172	Total Cir Vol	Total GPM	TOT. CIR TIME	37 min						
		H.W. Drill Pipe				195 bbls	224	5.33							
Sample Fro <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit		Mud Properties		Calculate Alkalinity <input type="checkbox"/> Check		HYDRAULICS									
Flowline Temperature (°F)		X				Jet Velocity		118 Ft/Sec	Nozzle Area						
Time Sample Taken		0200				Horsepower		0.5 HP/SQ.In	0.61 Sq In						
Depth (ft)		2507				Impact Force		3.8 lbf/Sq. In	ECD						
Mud Weight (ppg)		8.6				Press Loss at Bit		107psi	8.64 ppg						
Mud Gradient (psi/ft)		0.4472				Press Loss at Bit		9%							
Funnel Viscosity @		°F		29		Recommended Equipment									
Plastic Visc.cp @		75 °F		2		Cntrfuge <input type="checkbox"/> Shaker <input type="checkbox"/> Desander <input type="checkbox"/>									
Yield Point (lb/100ft2)		1				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 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:	lb/bbl						
Filtrate API HTHP (cm3/30 min)		x				RECOMMENDED TOURLY TREATMENT									
Cake Thickness (/32nds)		1													
Solids Content (% by vol)		2.0													
Water Content (% by Vol.)		98.0													
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		0/2.5													
Chloride (mg/l)		14500													
Total Hardness as Calcium (mg/l)		1360													
Oil Content (% by vol)		0													
LCM (lb/bbl)		0													
Excess Lime (lb/bbl)		0													
DAILY REMARKS															
Solids Analysis					Water loss up a bit at TD, ph down. Definite odor to mud -- starch going bad, recommend biocide.										
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	74L	SOAP STICK	SAW DUST	BAR	WAL NUT	DRIS PAC SL	DRIS PAC REG	BEADS	LUBE
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:					
CELL PHONE NO.	303-304-4528				ADDRESS:	Ft. Lupton, CO 80621				PHONE:					
ANS. SERVICE:					PHONE:	(303) 857-4171				PHONE:					
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