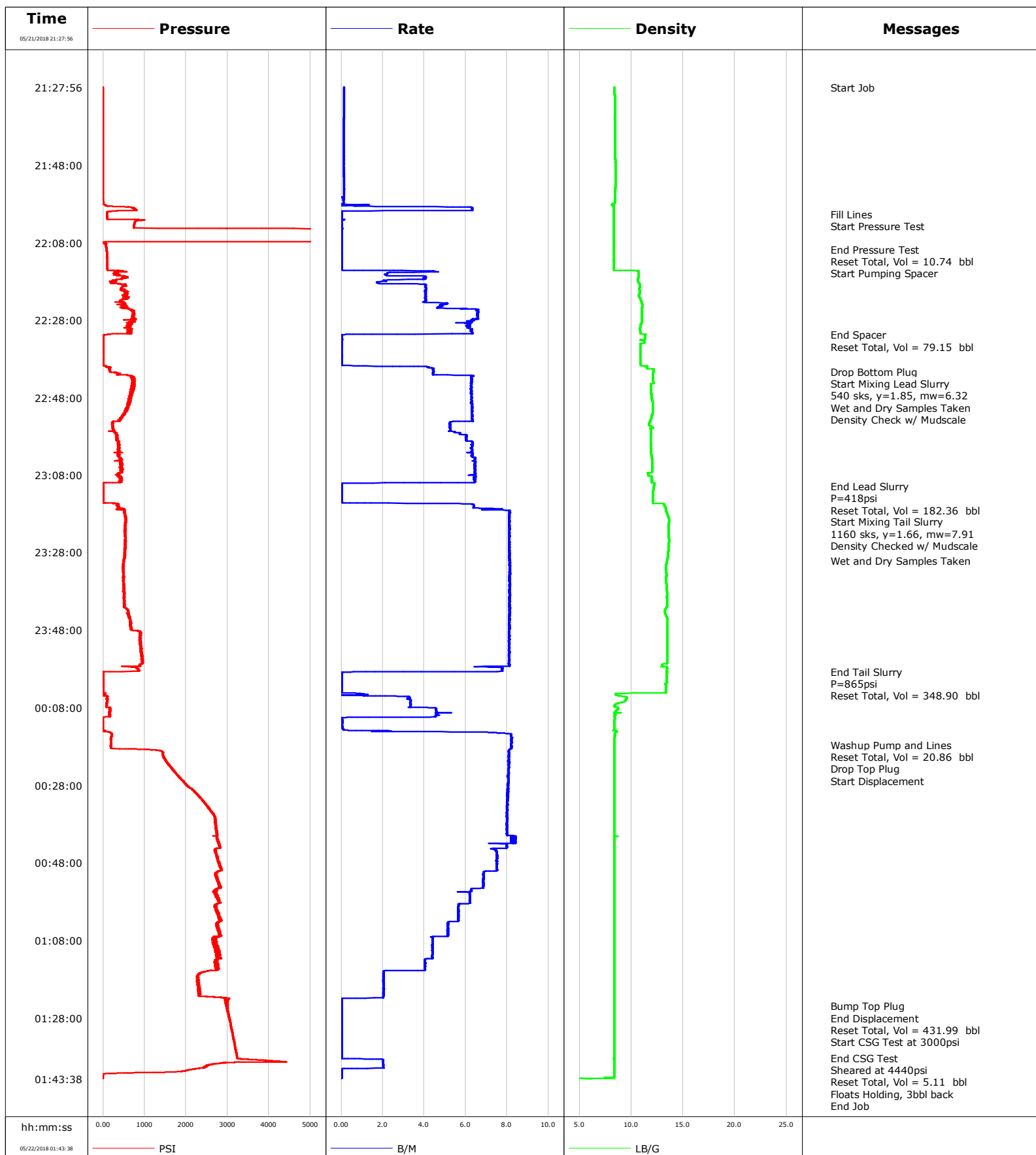


Well Verde 13-9HZ
Field Wattenburg
Engineer Caleb Baldwin
Country United States

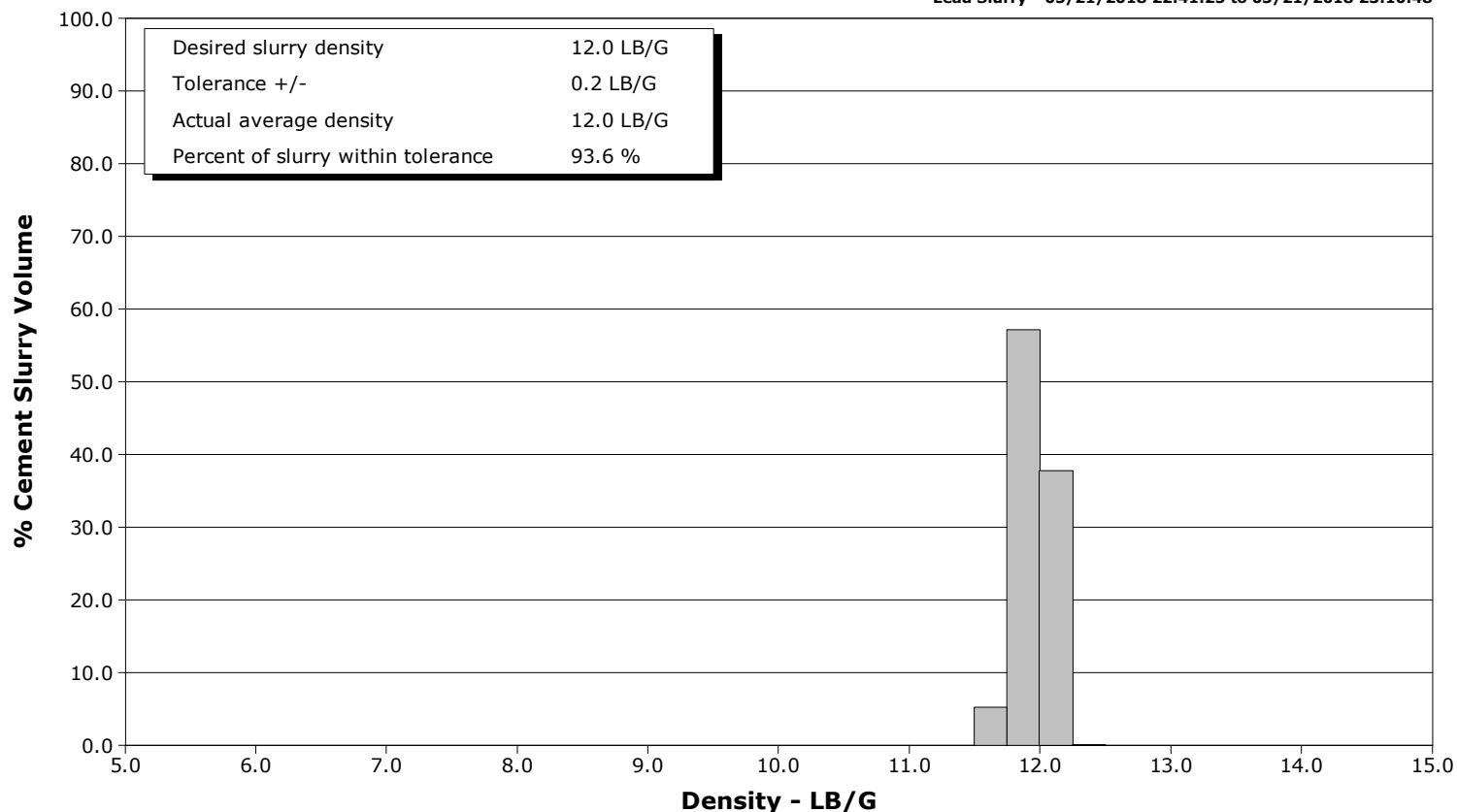
Client EOG
SIR No. DUNZ-00342
Job Type 5.5" Production
Job Date 05-21-2018



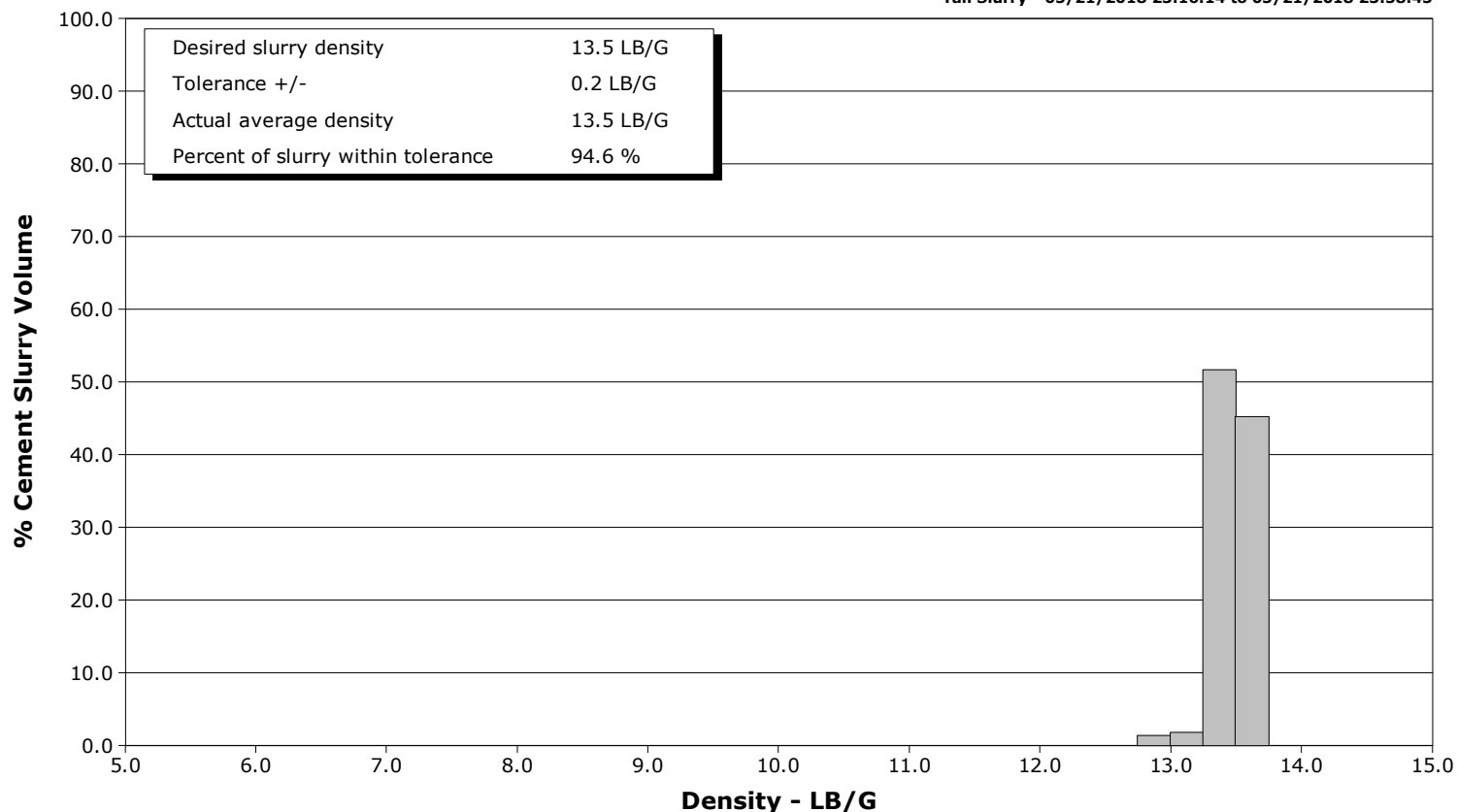
Well Verde 13-9HZ
Field Wattenburg
Engineer Caleb Baldwin
Country United States

Client EOG
SIR No. DUNZ-00342
Job Type 5.5" Production
Job Date 05-21-2018

Lead Slurry - 05/21/2018 22:41:25 to 05/21/2018 23:10:48



Tail Slurry - 05/21/2018 23:16:14 to 05/21/2018 23:58:45



Cementing Service Report

				Customer EOG			Job Number DUNZ-00342		
Well Verde 13-9HZ			Location (legal)		Schlumberger Location Cheyenne			Job Start May/21/2018	
Field Wattenburg		Formation Name/Type		Deviation deg	Bit Size in		Well MD 18665.0 ft	Well TVD 7368.0 ft	
County		State/Province Wyoming		BHP psi	BHST 229 degF	BHCT 229 degF	Pore Press. Gradient lb/gal		
Well Master 0631652595		API/UWI							
Rig Name PD 564	Drilled For Oil & Gas	Service Via Land		Casing/ Liner					
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development		1852.0	9.6	36.0	j55	8rd	
				18665.0	5.5	17.0	p110	8rd	
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe					
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	
Service Line Cementing	Job Type 5.5" Production								
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi		WH Connection	Perforations/Open Hole					
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
				ft	ft			ft	
				ft	ft			Diameter	
				ft	ft			in	
				Treat Down	Displacement bbl	Packer Type	Packer Depth ft		
				Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl	Openhole Vol. bbl		
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>			Casing Tools			Squeeze Job		
Lift Pressure psi				Shoe Type Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>			Shoe Depth 18665.0 ft			Tool Type		
No. Centralizers	Top Plugs 1	Bottom Plugs 1		Stage Tool Type			Tool Depth ft		
Cement Head Type				Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For May/21/2018 06:30	Arrived on Location May/21/2018 06:30	Leave Location May/21/2018		Collar Type Float			Tail Pipe Depth ft		
				Collar Depth 18588.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/21/2018	21:27:56	-3	0.1	8.39	0.0	Started Acquisition			
05/21/2018	21:28:01	-3	0.1	8.39	0.0	Start Job			
05/21/2018	22:00:40	93	0.0	8.32	10.6	Fill Lines			
05/21/2018	22:02:47	763	0.0	8.32	10.7	Start Pressure Test			
05/21/2018	22:09:47	80	0.0	8.33	10.7	End Pressure Test			
05/21/2018	22:09:51	81	0.0	8.33	10.7	Reset Total, Vol = 10.74 bbl			
05/21/2018	22:09:55	81	0.0	8.32	0.0	Start Pumping Spacer			
05/21/2018	22:31:49	34	0.0	11.35	79.2	End Spacer			
05/21/2018	22:31:51	22	0.0	11.35	79.2	Reset Total, Vol = 79.15 bbl			
05/21/2018	22:41:24	167	4.5	12.15	6.7	Drop Bottom Plug			
05/21/2018	22:41:25	187	4.5	12.15	6.8	Start Mixing Lead Slurry			
05/21/2018	22:41:26	181	4.4	12.15	6.8	540 sks, y=1.85, mw=6.32			
05/21/2018	22:44:30	710	6.3	11.88	24.7	Density Check w/ Mudscale			
05/21/2018	23:10:48	6	0.0	12.17	182.4	End Lead Slurry			
05/21/2018	23:10:51	5	0.0	12.17	182.4	Reset Total, Vol = 182.36 bbl			
05/21/2018	23:16:14	387	6.4	13.26	6.2	Start Mixing Tail Slurry			
05/21/2018	23:16:15	361	6.4	13.26	6.3	1160 sks, y=1.66, mw=7.91			
05/21/2018	23:16:50	525	7.8	13.35	10.3	Density Checked w/ Mudscale			
05/21/2018	23:30:06	496	8.1	13.44	117.7	Wet and Dry Samples Taken			
05/21/2018	23:58:45	10	0.6	13.49	348.9	End Tail Slurry			
05/21/2018	23:58:47	9	0.3	13.49	348.9	Reset Total, Vol = 348.90 bbl			

Well			Field		Job Start		Customer		Job Number	
Verde 13-9HZ			Wattenburg		May/21/2018		EOG		DUNZ-00342	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/22/2018	00:17:39	193	8.2	8.37	50.9	Reset Total, Vol = 20.86 bbl				
05/22/2018	00:17:41	196	8.2	8.37	0.3	Drop Top Plug				
05/22/2018	00:17:42	177	8.2	8.37	0.4	Start Displacement				
05/22/2018	01:24:55	2969	0.0	8.36	411.0	Bump Top Plug				
05/22/2018	01:24:56	2965	0.0	8.35	411.0	End Displacement				
05/22/2018	01:25:22	3008	0.0	8.36	411.0	Reset Total, Vol = 431.99 bbl				
05/22/2018	01:28:09	3041	0.0	8.36	0.0	Start CSG Test at 3000psi				
05/22/2018	01:38:21	3232	0.0	8.36	0.2	End CSG Test				
05/22/2018	01:39:49	2673	2.0	8.36	2.7	Sheared at 4440psi				
05/22/2018	01:41:15	2127	0.0	8.36	5.1	Reset Total, Vol = 5.11 bbl				
05/22/2018	01:42:35	-11	0.0	8.35	0.0	Floats Holding, 3bbl back				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 4.5	N2	Mud	Maximum Rate 8.4	Total Slurry 0.0	Mud 0.0	Spacer 0.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 6114	Final -8	Average 1329	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 0.0 bbl	Mix Water Temp degF	Cement Circulated to Surface?		Volume bbl						
				Washed Thru Perfs		To ft						
Customer or Authorized Representative			Schlumberger Supervisor Caleb Baldwin			Circulation Lost	Job Completed					
						-	-					