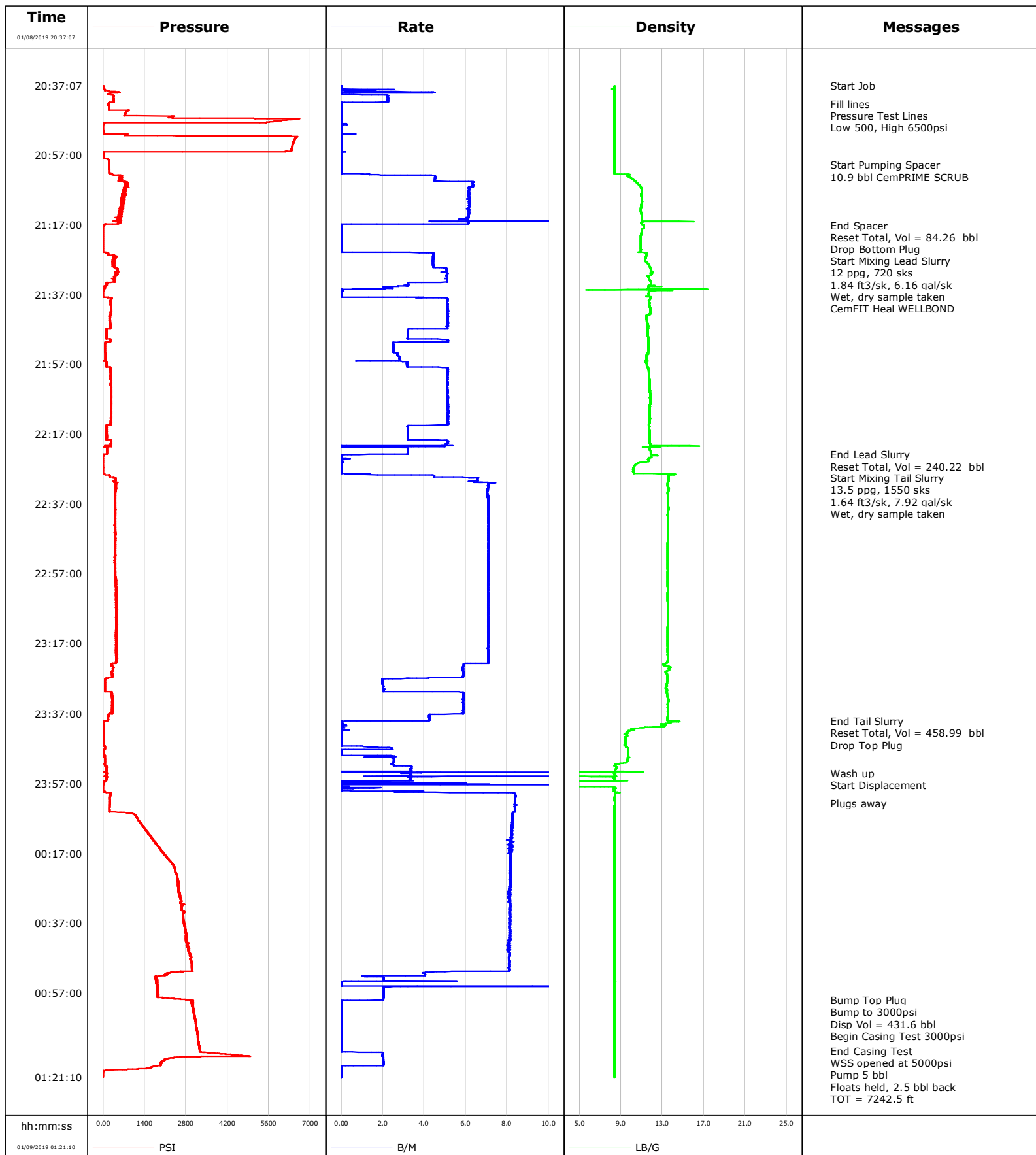


Well Castle Pines 19-14HZ
Field Wattenberg
Engineer Michael Navoy / Andrew Black
Country United States

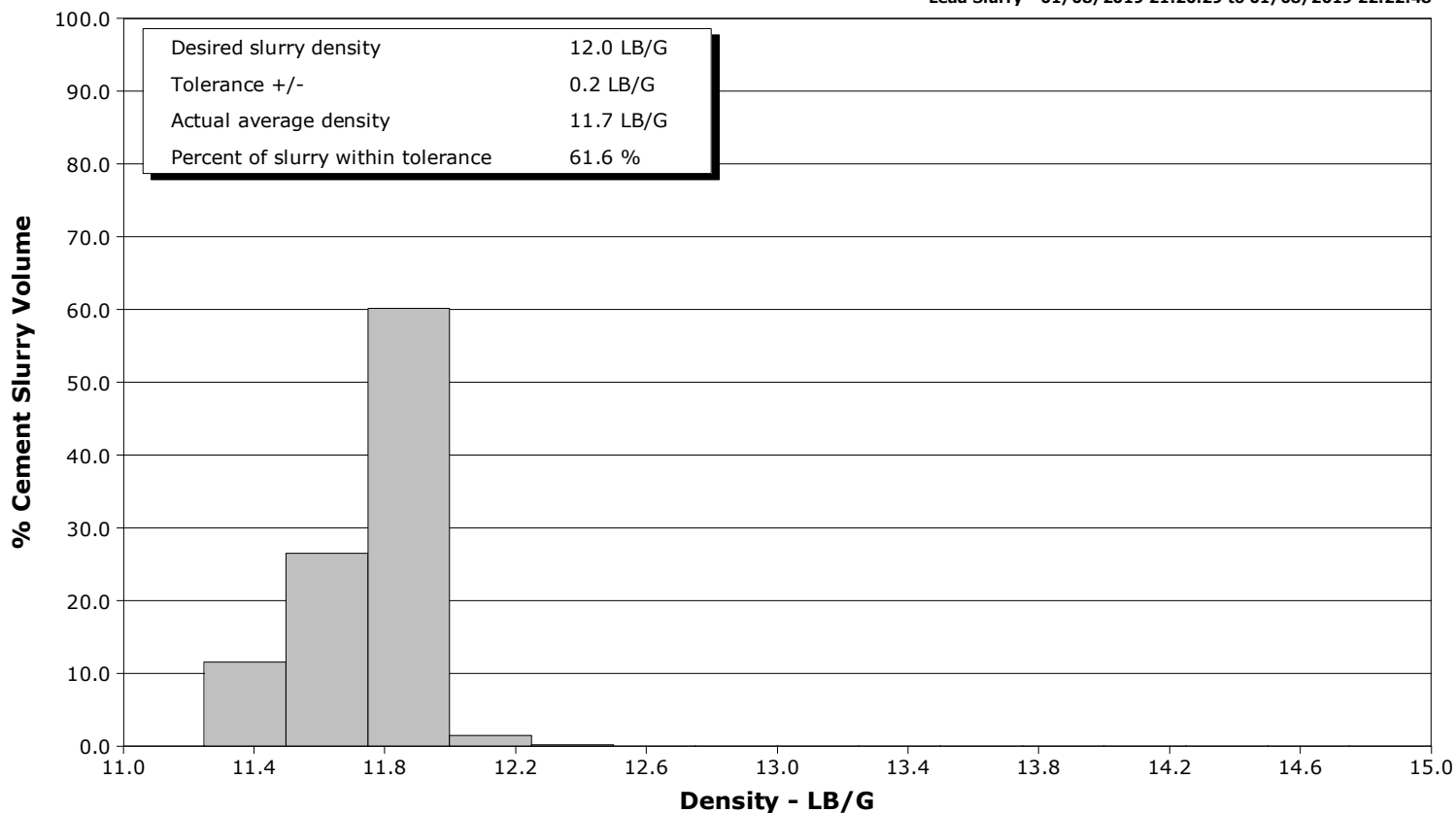
Client Anadarko
SIR No. E84H-00183
Job Type Production
Job Date 01-08-2019



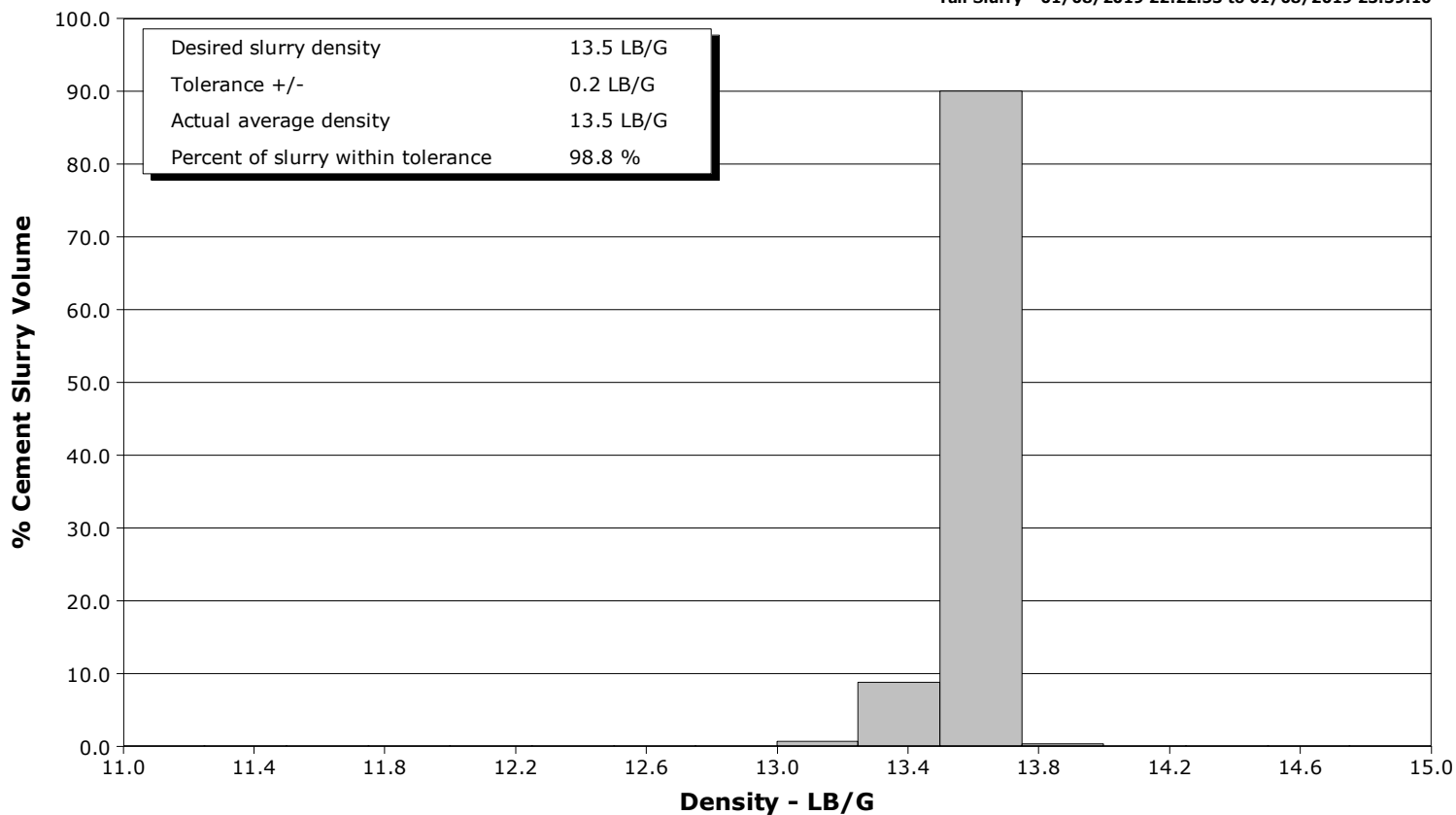
Well Castle Pines 19-14HZ
Field Wattenberg
Engineer Michael Navoy / Andrew Black
Country United States

Client Anadarko
SIR No. E84H-00183
Job Type Production
Job Date 01-08-2019

Lead Slurry - 01/08/2019 21:20:29 to 01/08/2019 22:22:48



Tail Slurry - 01/08/2019 22:22:53 to 01/08/2019 23:39:10



Cementing Service Report

				Customer Anadarko			Job Number E84H-00183										
Well Castle Pines 19-14HZ			Location (legal)			Schlumberger Location Cheyenne			Job Start Jan/08/2019								
Field Wattenberg		Formation Name/Type			Deviation 90 deg		Bit Size 8.5 in		Well MD 18627.0 ft		Well TVD 7310.0 ft						
County Weld		State/Province Colorado			BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal						
Well Master 0631789504		API/UWI															
Rig Name P564		Drilled For		Service Via Land		Casing / Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class New		Well Type Development		1879.0		9.6		36.0		J55		N/A			
						18615.0		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		Thread	
Service Line Cementing		Job Type 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			
Service Instructions 5.5 inch Production Casing						ft		ft									
						ft		ft						Diameter in			
						ft		ft									
		Treat Down Casing		Displacement 431.6 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. bbl		Casing Vol. 431.8 bbl		Annular Vol. 772.8 bbl		Openhole Vol. 0.8 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 18615.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft							
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Jan/08/2019 14:00		Arrived on Location Jan/08/2019 13:37		Leave Location Jan/09/2019 02:40		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 18613.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
01/08/2019	20:37:07	1	0.0	8.37	0.0	Started Acquisition											
01/08/2019	20:37:12	2	0.0	8.37	0.0	Start Job											
01/08/2019	20:42:14	174	0.0	8.38	6.9	Fill lines											
01/08/2019	20:42:29	178	0.0	8.38	6.9	Pressure Test Lines											
01/08/2019	20:42:43	184	0.0	8.38	6.9	Low 500, High 6500psi											
01/08/2019	20:59:49	198	0.0	8.38	7.1	Start Pumping Spacer											
01/08/2019	20:59:51	199	0.0	8.38	7.1	10.9 bbl CemPRIME SCRUB											
01/08/2019	21:17:07	6	0.0	11.21	91.2	End Spacer											
01/08/2019	21:17:09	5	0.0	11.21	91.2	Reset Total, Vol = 84.26 bbl											
01/08/2019	21:17:11	3	0.0	11.21	91.2	Drop Bottom Plug											
01/08/2019	21:20:29	-3	0.0	10.90	91.2	Start Mixing Lead Slurry											
01/08/2019	21:20:32	-3	0.0	10.91	91.2	12 ppg, 720 sks											
01/08/2019	21:20:33	-3	0.0	10.91	91.2	1.84 ft3/sk, 6.16 gal/sk											
01/08/2019	21:20:34	-3	0.0	10.90	91.2	Wet, dry sample taken											
01/08/2019	21:24:57	103	4.3	11.43	91.5	CemFIT Heal WELLBOND											
01/08/2019	22:22:48	2	0.0	12.39	331.4	End Lead Slurry											
01/08/2019	22:22:50	1	0.0	12.43	331.4	Reset Total, Vol = 240.22 bbl											
01/08/2019	22:22:53	1	0.0	12.47	331.4	Start Mixing Tail Slurry											
01/08/2019	22:28:58	225	4.5	13.61	333.4	13.5 ppg, 1550 sks											
01/08/2019	22:28:59	225	4.5	13.61	333.5	1.64 ft3/sk, 7.92 gal/sk											
01/08/2019	23:39:10	-1	0.0	14.63	790.4	End Tail Slurry											

Well			Field		Job Start		Customer		Job Number	
Castle Pines 19-14HZ			Wattenberg		Jan/08/2019		Anadarko		E84H-00183	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/08/2019	23:39:14	-1	0.0	14.59	790.4	Drop Top Plug				
01/08/2019	23:54:00	122	2.9	8.40	806.9	Wash up				
01/08/2019	23:54:01	124	3.4	8.41	806.9	Start Displacement				
01/09/2019	00:02:55	219	8.4	8.40	845.5	Plugs away				
01/09/2019	00:59:08	3014	0.3	8.37	1255.6	Bump Top Plug				
01/09/2019	00:59:13	2946	0.0	8.37	1255.7	Bump to 3000psi				
01/09/2019	00:59:16	3015	0.0	8.37	1255.7	Disp Vol = 431.6 bbl				
01/09/2019	01:01:41	3029	0.0	8.38	1255.7	Begin Casing Test 3000psi				
01/09/2019	01:13:41	3261	0.0	8.38	1255.7	End Casing Test				
01/09/2019	01:15:24	2532	2.0	8.38	1258.5	WSS opened at 5000psi				
01/09/2019	01:18:01	1722	0.0	8.38	1263.5	Pump 5 bbl				
01/09/2019	01:19:59	-2	0.0	8.38	1263.5	Floats held, 2.5 bbl back				
01/09/2019	01:20:22	-1	0.0	8.38	1263.5	TOT = 7242.5 ft				
01/09/2019	01:20:23	-1	0.0	8.38	1263.5	TOL = 1432.8 ft				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 5.8	N2	Mud	Maximum Rate 24.2	Total Slurry 699.2	Mud 0.0	Spacer 84.3	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 6632	Final -1	Average 1053	Bump Plug to 3000	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 431.6 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative Company Man			Schlumberger Supervisor Michael Navoy / Andrew Black			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>					
						-	-					