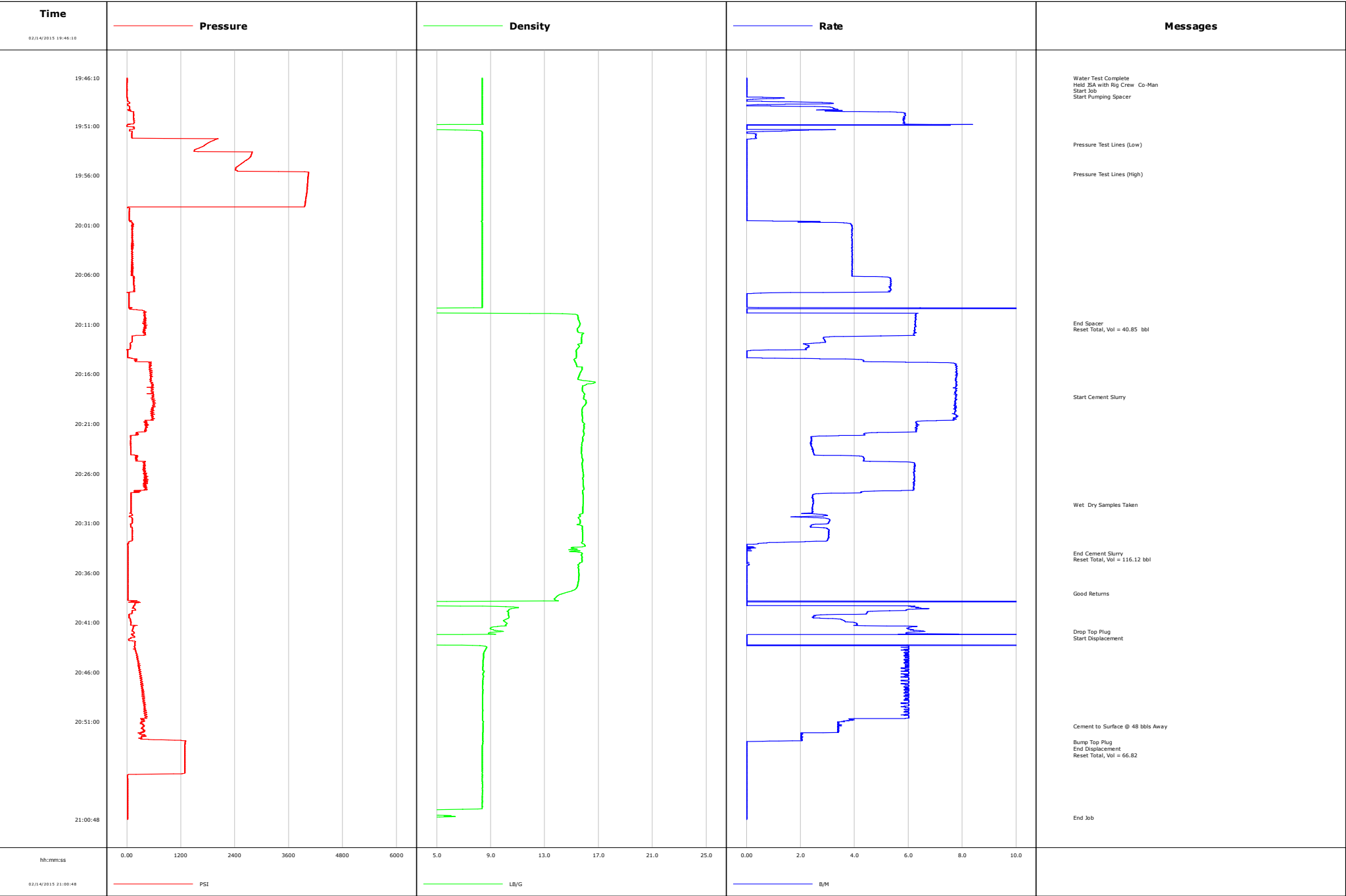
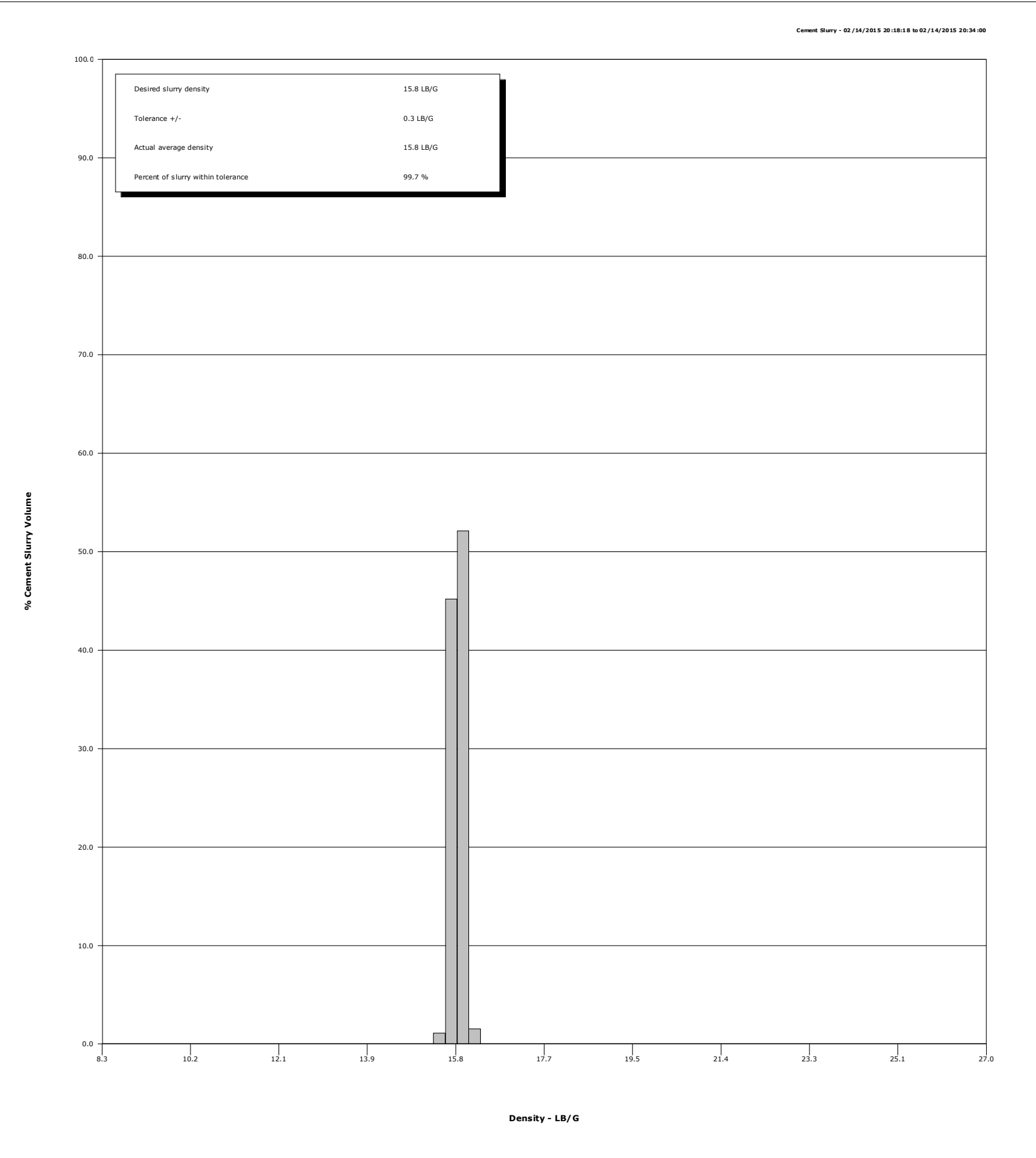


Well	Waag Middle 7	Client	Extraction
Field	Wattenberg	SIR No.	D8FO-00097
Engineer	Wayne Silvester	Job Type	Surface
Country	United States	Job Date	02-14-2015



Well	Waag Middle 7	Client	Extraction
Field	Wattenberg	SIR No.	D8FO-00097
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Cementing Service Report

				Customer Extraction				Job Number D8FO-00097									
Well Waag Middle 7 7			Location (legal) 217304			Schlumberger Location Radu Cartacuzencu			Job Start Feb/14/2015								
Field Wattenberg		Formation Name/Type Shale			Deviation deg		Bit Size 13.5 in		Well MD 859.1 ft		Well TVD 904.0 ft						
County Weld		State/Province Colorado			BHP psi		BHST 91 degF		BHCT 81 degF		Pore Press. Gradient lb/gal						
Well Master 0631621831		API/UWI															
Rig Name HBP 319		Drilled For Oil Producer		Service Via Land		Casing/Liner											
Offshore Zone		Well Class New		Well Type Other		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
						904.0		9.6		36.0		N/A		BRD			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite		Max. Density 8.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
Service Line Cementing		Job Type Surface				T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 9 5/8		Perforations/Open Hole											
Service Instructions Set 9 5/8" surface casing in a 13.5" hole to 900 feet using Class G cement plus additives thank you.						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
						ft		ft									
						ft		ft									
						ft		ft						Diameter in			
						Treat Down Casing		Displacement 66.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 69.0 bbl		Annular Vol. 83.3 bbl		Openhole Vol. 83.0 bbl					
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools		Squeeze Job									
LIFT Pressure 365 psi						Shoe Type Float		Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 904.3 ft		Tool Type									
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type		Tool Depth ft									
Cement Head Type Single						Stage Tool Depth ft		Tail Pipe Size in									
Job Scheduled For Feb/14/2015		Arrived on Location Feb/14/2015		Leave Location Feb/14/2015		Collar Type Float		Tail Pipe Depth ft									
						Collar Depth 859.1 ft		Sqp. Total Vol. bbl									
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
02/14/2015	19:46:10	3	0.0	8.37	0.0	Started Acquisition											
02/14/2015	19:46:12	3	0.0	8.36	0.0	Water Test Complete											
02/14/2015	19:46:29	1	0.0	8.37	0.0	Held JSA with Rig Crew Co-Man											
02/14/2015	19:46:35	1	0.0	8.37	0.0	Start Job											
02/14/2015	19:47:19	0	0.0	8.37	0.0	Start Pumping Spacer											
02/14/2015	19:51:11	156	0.0	0.01	9.7												
02/14/2015	19:52:55	1740	0.0	8.36	10.3	Pressure Test Lines (Low)											
02/14/2015	19:55:50	4038	0.0	8.36	10.3	Pressure Test Lines (High)											
02/14/2015	19:56:12	4030	0.0	8.36	10.3												
02/14/2015	20:01:13	112	3.9	8.37	12.5												
02/14/2015	20:06:14	166	5.3	8.36	32.2												
02/14/2015	20:10:50	387	6.3	15.62	48.3	End Spacer											
02/14/2015	20:11:15	421	6.2	15.53	51.0												
02/14/2015	20:11:16	404	6.2	15.52	51.1	Reset Total, Vol = 40.85 bbl											
02/14/2015	20:16:16	537	7.8	15.54	73.3												
02/14/2015	20:18:18	603	7.8	15.91	89.1	Start Cement Slurry											
02/14/2015	20:21:17	448	6.3	15.94	111.3												
02/14/2015	20:26:18	394	6.2	15.89	133.3												
02/14/2015	20:29:09	90	2.5	15.84	146.1	Wet Dry Samples Taken											
02/14/2015	20:31:19	81	2.4	15.80	151.8												
02/14/2015	20:34:00	22	0.0	15.78	156.6	End Cement Slurry											

Well Waag Middle 7 7			Field Wattenberg		Job Start Feb/14/2015	Customer Extraction	Job Number D8FO-00097
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/14/2015	20:36:20	21	0.0	15.54	156.6		
02/14/2015	20:38:02	21	0.0	14.44	156.6	Good Returns	
02/14/2015	20:41:21	149	6.3	9.62	167.3		
02/14/2015	20:41:56	148	6.2	9.40	170.9	Drop Top Plug	
02/14/2015	20:41:57	148	6.1	9.18	171.0	Start Displacement	
02/14/2015	20:46:22	299	6.0	8.49	192.0		
02/14/2015	20:51:23	375	3.4	8.42	220.1		
02/14/2015	20:51:25	370	3.4	8.42	220.2	Cement to Surface @ 48 bbls Away	
02/14/2015	20:53:02	1292	0.0	8.42	224.2	Bump Top Plug	
02/14/2015	20:53:04	1292	0.0	8.42	224.2	End Displacement	
02/14/2015	20:54:20	1288	0.0	8.38	224.2	Reset Total, Vol = 66.82	
02/14/2015	20:56:24	8	0.0	8.38	224.2		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
4.8			7.8	116.8	0.0	40.2		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
4046	12	525	865			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
%	116.0 bbl		66.8 bbl	60 degF	<input checked="" type="checkbox"/>	18.0 bbl		
					Washed Thru Perfs	<input type="checkbox"/>		
						To ft		
Customer or Authorized Representative			Schlumberger Supervisor		Circulation Lost	Job Completed		
Justin Glorie			Wayne Silvester		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					-	-		