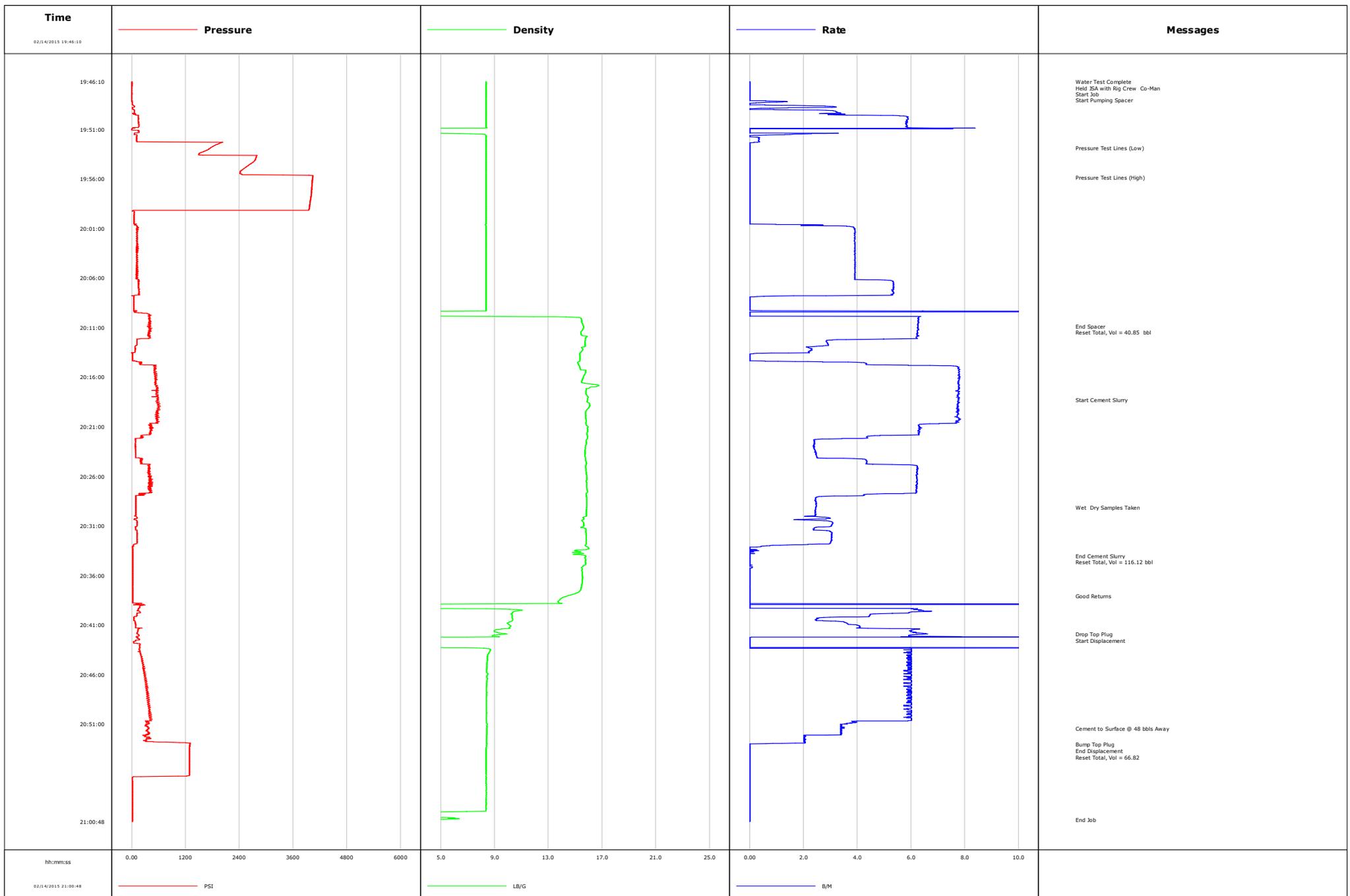


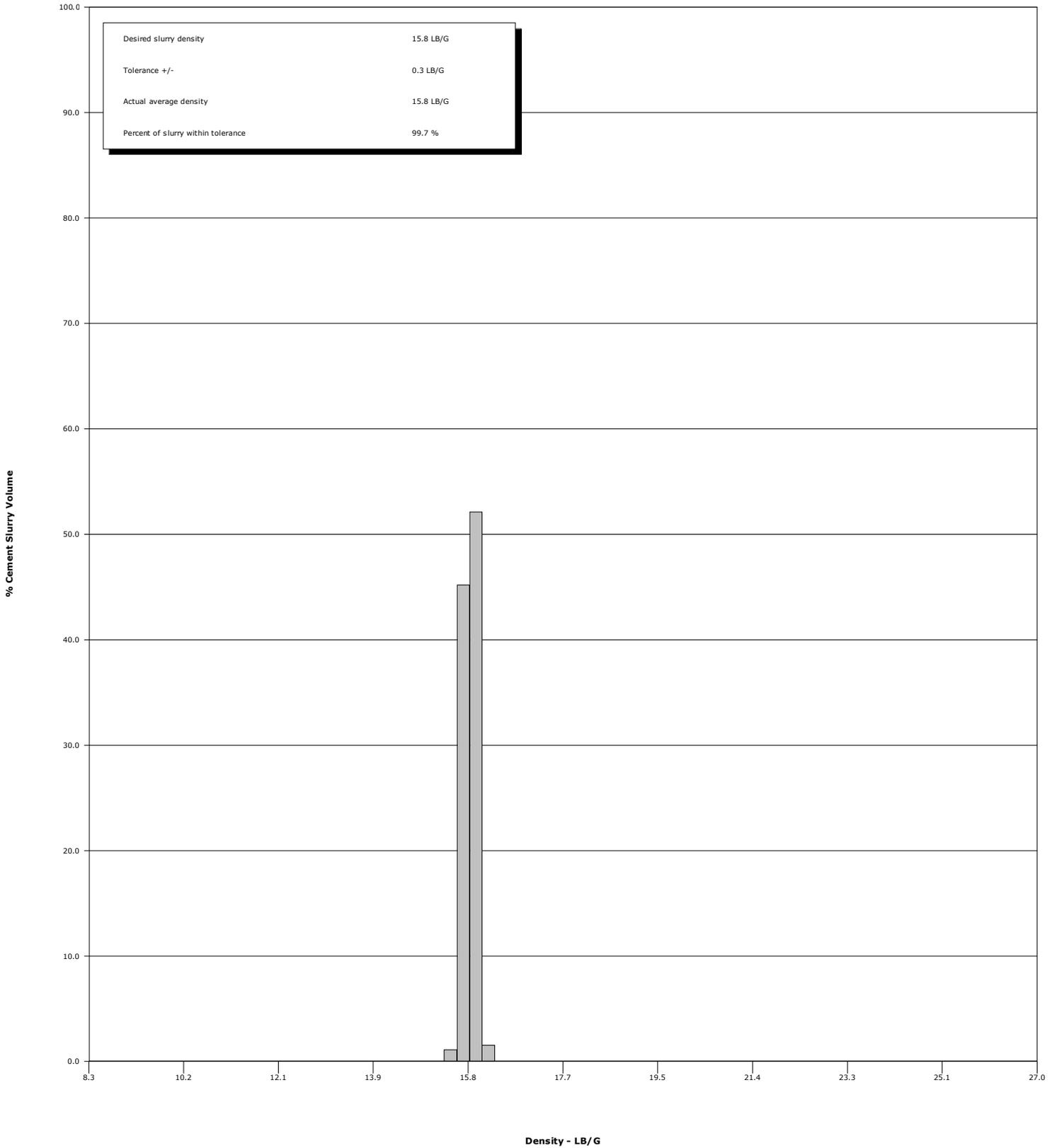
<b>Well</b>	Waag Middle 7	<b>Client</b>	Extraction
<b>Field</b>	Wattenberg	<b>SIR No.</b>	D8FO-00097
<b>Engineer</b>	Wayne Silvester	<b>Job Type</b>	Surface
<b>Country</b>	United States	<b>Job Date</b>	02-14-2015



**Well** Waag Middle 7  
**Field** Wattenberg  
**Engineer** Wayne Silvester  
**Country** United States

**Client** Extraction  
**SIR No.** D8FO-00097  
**Job Type** Surface  
**Job Date** 02-14-2015

Cement Slurry - 02/14/2015 20:18:18 to 02/14/2015 20:34:00



Customer				Job Number			
Extraction				DBFO-00097			
Well Waag Middle 7 7		Location (Legal) 217304		Schlumberger Location Radu Cartazucenzu		Job Start Feb/14/2015	
Field Wattenberg		Formation Name/Type Shale		Deviation deg 13.5 in	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			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone		Well Class New	Well Type Other	904.0	9.6	36.0	N/A
				0.0	0.0	0.0	
Drilling Fluid Type Bentonite		Max. Density 8.40 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing		Job Type Surface					
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi	WH Connection 9 5/8	Perforations/Open Hole			
				Top, ft	Bottom, ft	Shot/ft	No. of Shots
Service Instructions Set 9 5/8" surface casing in a 13.5" hole to 900 feet using Class G cement plus additives thank you.				ft	ft		Total Interval ft
				ft	ft		Diameter in
				ft	ft		
				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 Recirculated <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		Sep. 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		Field		Job Start		Customer		Job Number	
Waag Middle 7 7		Wattenberg		Feb/14/2015		Extraction		DBFO-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	To		
					<input type="checkbox"/>	ft		
Customer or Authorized Representative			Schlumberger Supervisor		Circulation Lost	Job Completed		
Justin Glorie			Wayne Silvester		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					-	-		