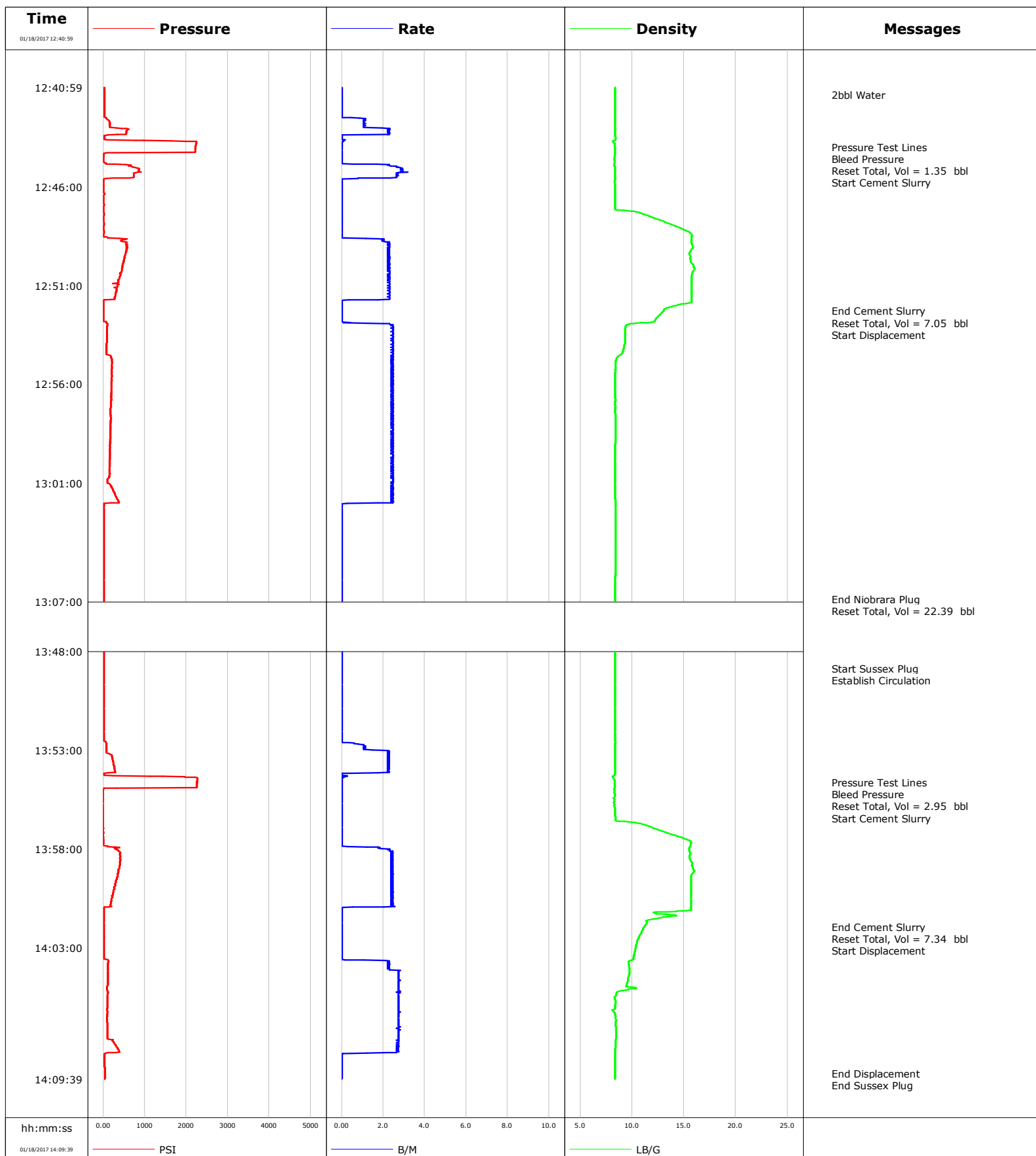


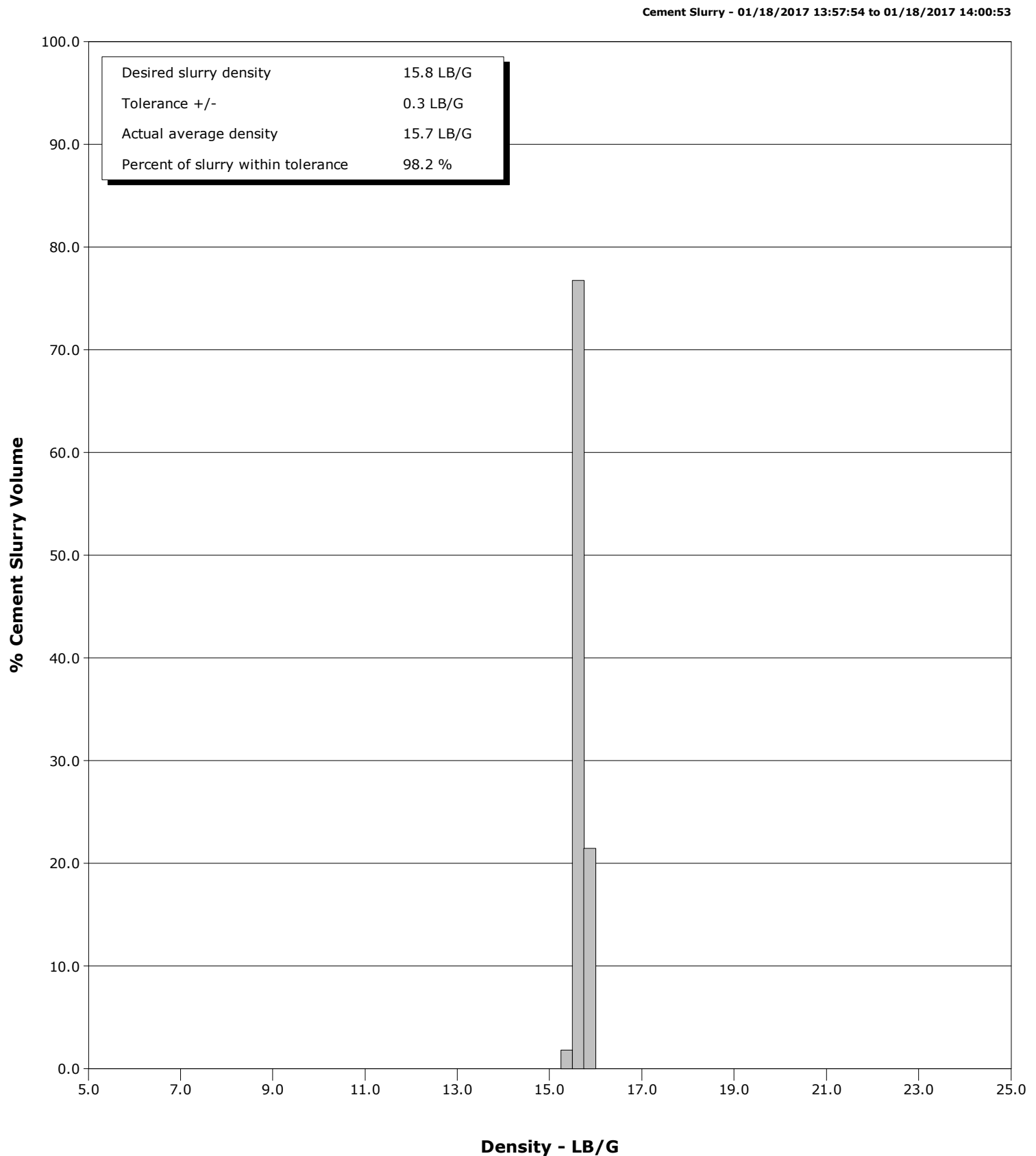
Well Roth
Field DJ
Engineer Chris Valerio
Country United States

Client Anadarko
SIR No. DA6T-00408
Job Type Niobrara and Sussex plugs
Job Date 01-18-2017



Well Roth
Field DJ
Engineer Chris Valerio
Country United States

Client Anadarko
SIR No. DA6T-00408
Job Type Niobrara and Sussex plugs
Job Date 01-18-2017



Cementing Service Report

				Customer Anadarko			Job Number DA6T-00408					
Well Roth 6-18			Location (legal)		Schlumberger Location			Job Start Jan/18/2017				
Field DJ		Formation Name/Type		Deviation deg	Bit Size in		Well MD 6850.0 ft		Well TVD 6850.0 ft			
County Weld		State/Province Colorado		BHP psi	BHST 220 degF		BHCT 210 degF		Pore Press. Gradient lb/gal			
Well Master 0631702367		API/UWI 512316869										
Rig Name Leed	Drilled For N/A		Service Via Land	Casing/ Liner								
				Depth, ft		Size, in	Weight, lb/ft		Grade		Thread	
Offshore Zone	Well Class Old		Well Type Workover	6850.0		4.5	11.6		M80		8RD	
				4244.0		4.5	11.6		M80		8RD	
Drilling Fluid Type Other		Max. Density 8.30 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe								
				T/D	Depth, ft	Size, in	Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type Niobrara and Sussex plugs		T	6841.0	2.4	4.7		J55		8RD	
				T	4244.0	2.4	4.7		J55		8RD	
Max. Allowed Tub. Press 1000 psi		Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S	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 Tubing		Displacement 13.5 bbl		Packer Type		Packer Depth ft		
				Tubing Vol. 26.4 bbl		Casing Vol. 106.1 bbl		Annular Vol. 69.0 bbl		Openhole Vol. 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 psi				Shoe Type				Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft				Tool Type				
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type				Tool Depth ft				
Cement Head Type				Stage Tool Depth ft				Tail Pipe Size in				
Job Scheduled For Jan/18/2017 12:00		Arrived on Location Jan/18/2017 12:00		Leave Location Jan/18/2017 14:30		Collar Type				Tail Pipe Depth ft		
						Collar Depth ft				Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stg Volume BBL	Message						
01/18/2017	12:40:59	36	0.0	8.38	0.0	Started Acquisition						
01/18/2017	12:41:21	31	0.0	8.38	0.0	2bbl Water						
01/18/2017	12:44:00	2224	0.0	8.35	1.3	Pressure Test Lines						
01/18/2017	12:44:20	40	0.0	8.35	1.3	Bleed Pressure						
01/18/2017	12:44:23	4	0.0	8.35	1.3	Reset Total, Vol = 1.35 bbl						
01/18/2017	12:44:27	13	0.0	8.34	0.0	Start Cement Slurry						
01/18/2017	12:45:59	4	0.0	8.37	0.0							
01/18/2017	12:50:59	352	2.3	15.74	5.3							
01/18/2017	12:52:17	8	0.0	13.05	7.0	End Cement Slurry						
01/18/2017	12:52:22	8	0.0	12.92	7.0	Reset Total, Vol = 7.05 bbl						
01/18/2017	12:52:26	8	0.0	12.79	0.0	Start Displacement						
01/18/2017	12:55:59	200	2.5	8.39	7.5							
01/18/2017	13:00:59	104	2.5	8.37	19.8							
01/18/2017	13:05:59	22	0.0	8.39	22.4							
01/18/2017	13:06:51	17	0.0	8.39	22.4	End Niobrara Plug						
01/18/2017	13:06:54	22	0.0	8.39	22.4	Reset Total, Vol = 22.39 bbl						
01/18/2017	13:10:59	17	0.0	8.39	0.0							
01/18/2017	13:15:59	17	0.0	8.38	0.0							
01/18/2017	13:20:59	17	0.0	8.38	0.0							
01/18/2017	13:25:59	17	0.0	8.38	0.0							
01/18/2017	13:30:59	17	0.0	8.38	0.0							

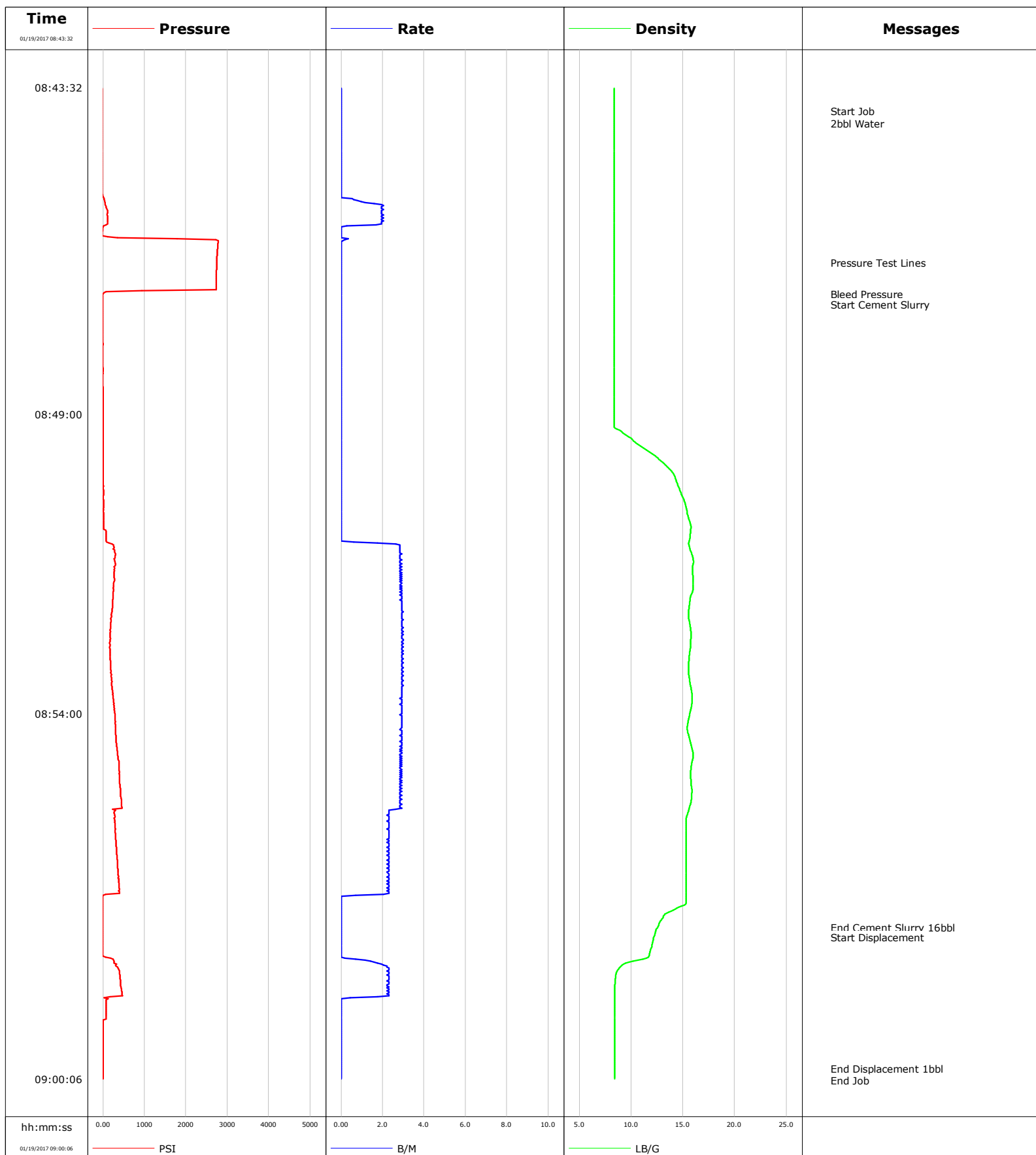
Well			Field		Job Start		Customer		Job Number	
Roth 6-18			DJ		Jan/18/2017		Anadarko		DA6T-00408	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stg Volume BBL	Message				
01/18/2017	13:40:59	17	0.0	8.38	0.0					
01/18/2017	13:45:59	17	0.0	8.38	0.0					
01/18/2017	13:48:52	17	0.0	8.38	0.0	Start Sussex Plug				
01/18/2017	13:49:02	22	0.0	8.38	0.0	Establish Circulation				
01/18/2017	13:50:59	17	0.0	8.39	0.0					
01/18/2017	13:54:38	2265	0.0	8.35	2.9	Pressure Test Lines				
01/18/2017	13:54:57	8	0.0	8.30	2.9	Bleed Pressure				
01/18/2017	13:55:00	4	0.0	8.28	2.9	Reset Total, Vol = 2.95 bbl				
01/18/2017	13:55:07	-1	0.0	8.30	0.0	Start Cement Slurry				
01/18/2017	13:55:59	-1	0.0	8.37	0.0					
01/18/2017	14:00:59	22	0.0	15.68	7.3					
01/18/2017	14:01:56	22	0.0	11.18	7.3	End Cement Slurry				
01/18/2017	14:02:00	22	0.0	11.11	7.3	Reset Total, Vol = 7.34 bbl				
01/18/2017	14:02:21	17	0.0	10.78	0.0	Start Displacement				
01/18/2017	14:05:59	100	2.7	8.39	6.2					
01/18/2017	14:09:21	40	0.0	8.38	12.6	End Displacement				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.4	N2	Mud	Maximum Rate 3.2	Total Slurry 14.0	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 585	Final 40	Average 108	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 14.0 bbl	Displacement 13.5 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Bill Smith			Schlumberger Supervisor Chris Valerio			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

Well Roth
Field DJ
Engineer Chris Valerio
Country United States

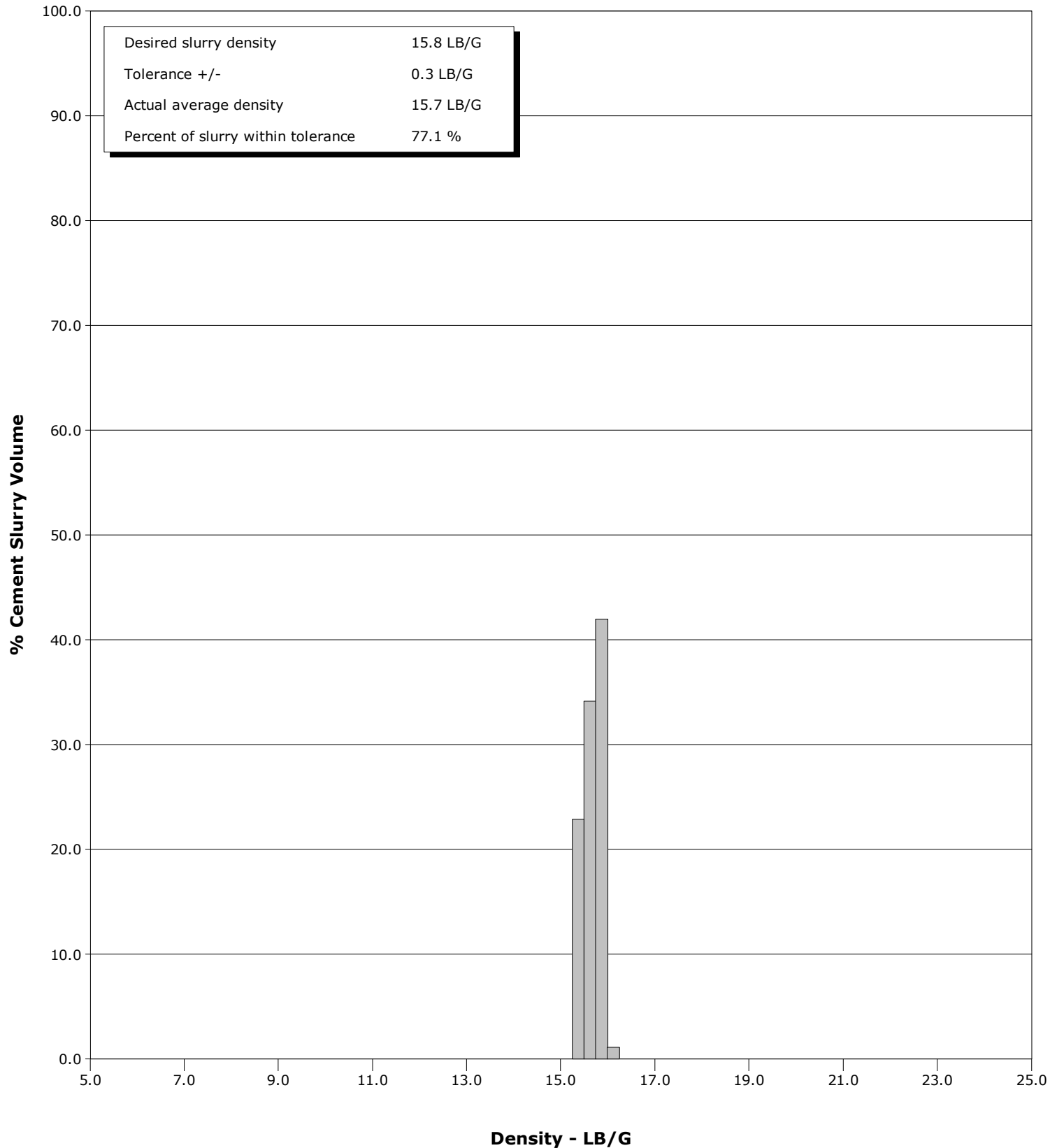
Client Anadarko
SIR No. DA6T-00410
Job Type Fox Hill Plug
Job Date 01-19-2017



Well Roth
Field DJ
Engineer Chris Valerio
Country United States

Client Anadarko
SIR No. DA6T-00410
Job Type Fox Hill Plug
Job Date 01-19-2017

Cement Slurry - 01/19/2017 08:51:12 to 01/19/2017 08:57:00



Cementing Service Report

				Customer Anadarko			Job Number DA6T-00410								
Well Roth 6-18			Location (legal)			Schlumberger Location			Job Start Jan/19/2017						
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 1136.0 ft		Well TVD 1136.0 ft				
County Weld		State/Province Colorado			BHP psi		BHST 80 degF		BHCT 80 degF		Pore Press. Gradient lb/gal				
Well Master 0631702367		API/UWI 512316869													
Rig Name Leed		Drilled For N/A		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class Old		Well Type Workover		1136.0		4.5		11.6		M80	8RD		
						0.0		0.0		0.0					
Drilling Fluid Type Other		Max. Density 8.30 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe									
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade	Thread
Service Line Cementing		Job Type Fox Hill Plug				T		1136.0		2.4		4.7		J55	8RD
								0.0		0.0		0.0			
Max. Allowed Tub. Press 1000 psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		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 Tubing		Displacement 1.0 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. 4.3 bbl		Casing Vol. 17.6 bbl		Annular Vol. 11.4 bbl		Openhole Vol. 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 psi						Shoe Type				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth ft				Tool Type					
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth ft					
Cement Head Type						Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Jan/19/2017 08:00		Arrived on Location Jan/19/2017 08:00		Leave Location Jan/19/2017 09:30		Collar Type				Tail Pipe Depth ft					
						Collar Depth ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stg Volume BBL	Message									
01/19/2017	08:43:32	-15	0.0	8.38	0.0	Started Acquisition									
01/19/2017	08:43:56	-15	0.0	8.38	0.0	Start Job									
01/19/2017	08:44:02	-15	0.0	8.38	0.0	2bbl Water									
01/19/2017	08:46:28	2746	0.0	8.38	0.8	Pressure Test Lines									
01/19/2017	08:46:59	4	0.0	8.38	0.8	Bleed Pressure									
01/19/2017	08:47:10	-1	0.0	8.38	0.0	Start Cement Slurry									
01/19/2017	08:48:32	-1	0.0	8.38	0.0										
01/19/2017	08:53:32	214	3.0	15.74	6.9										
01/19/2017	08:57:34	-5	0.0	12.56	16.2	End Cement Slurry 16bbl									
01/19/2017	08:57:44	-5	0.0	12.22	0.0	Start Displacement									
01/19/2017	08:58:32	425	2.2	8.44	0.9										
01/19/2017	08:59:56	4	0.0	8.40	1.4	End Displacement 1bbl									

Well Roth 6-18	Field DJ	Job Start Jan/19/2017	Customer Anadarko	Job Number DA6T-00410
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 2.6	N2	Mud	Maximum Rate 3.0		Total Slurry 16.0	Mud 0.0	Spacer 0.8	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 513	Final 4	Average 369	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 16.0 bbl		Displacement 1.4 bbl		Mix Water Temp 55 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Bill Smith				Schlumberger Supervisor Chris Valerio				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-