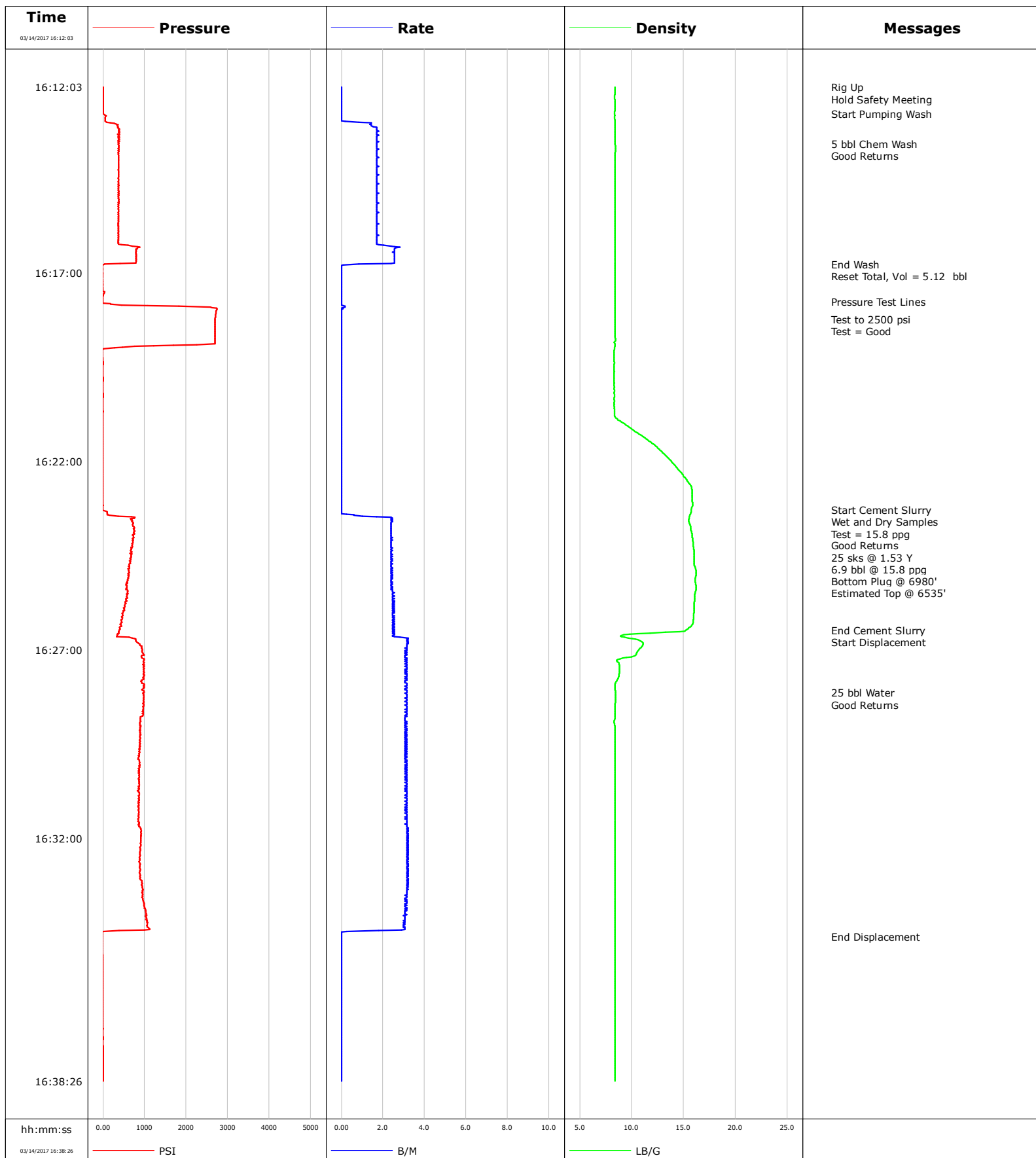


**Well** HSR Randy 14-23  
**Field** DJ  
**Engineer** Matt Leiker  
**Country** United States

**Client** Anadarko  
**SIR No.** DA6T-00711  
**Job Type** Plug  
**Job Date** 03-14-2017



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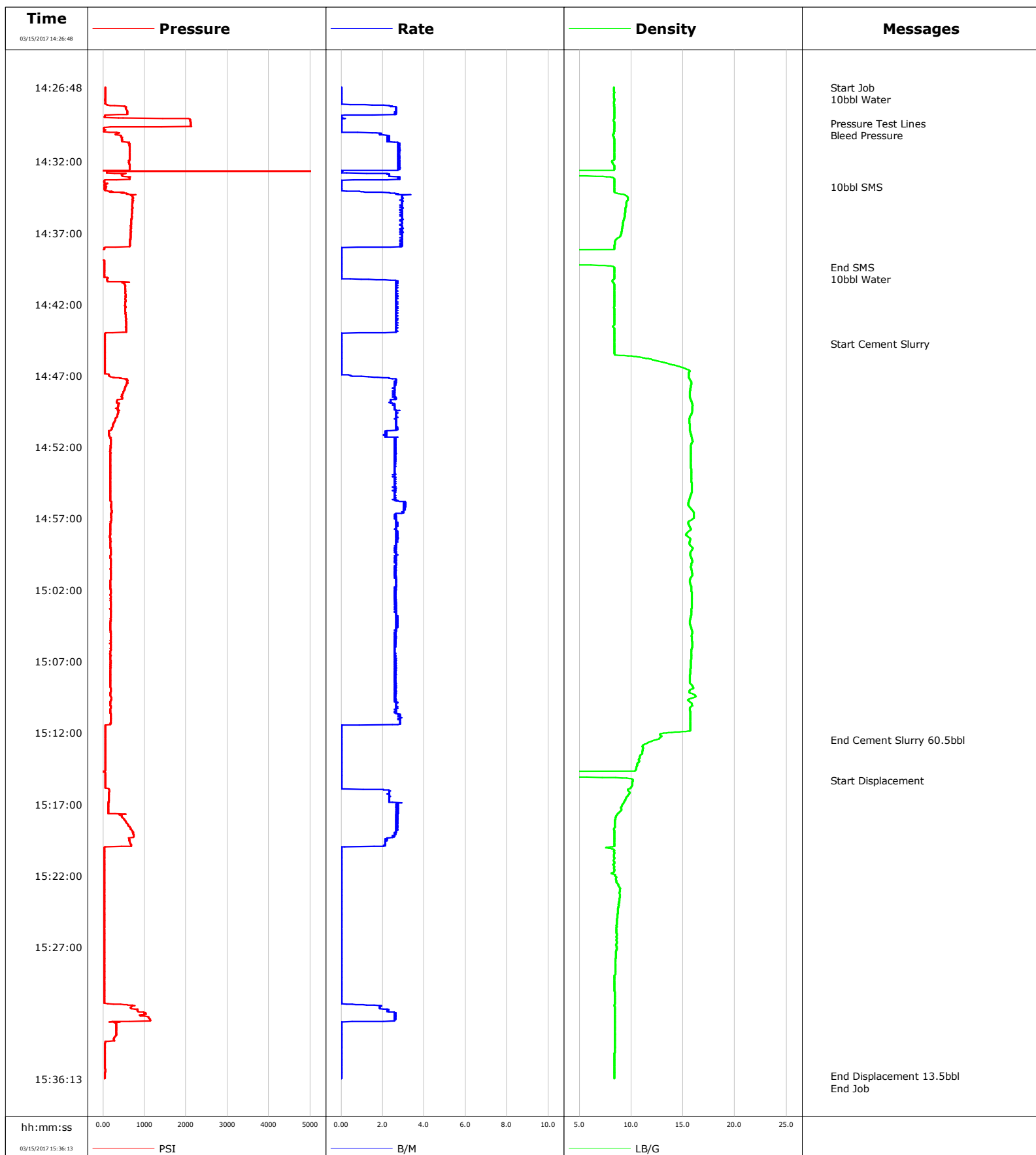
Well			Field		Job Start	Customer		Job Number
HSR Randy 14-23			DJ		Mar/14/2017	Anadarko		DA6T-00711
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume PSI	Message		
03/14/2017	16:28:09	961	3.1	8.43	0	Good Returns		
03/14/2017	16:30:03	879	3.1	8.39	0			
03/14/2017	16:32:03	911	3.2	8.39	0			
03/14/2017	16:34:03	1039	3.0	8.38	0			
03/14/2017	16:34:36	-18	0.0	8.38	0	End Displacement		
03/14/2017	16:36:03	-5	0.0	8.39	0			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 2.6	N2	Mud	Maximum Rate 3.2	Total Slurry 6.9	Mud 0.0	Spacer 5.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 2742	Final 0	Average 822	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 6.9 bbl	Displacement 25.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative			Schlumberger Supervisor Matt Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>					
						-	-					

**Well** HSR Randy  
**Field** DJ  
**Engineer** Chris Valerio  
**Country** United States

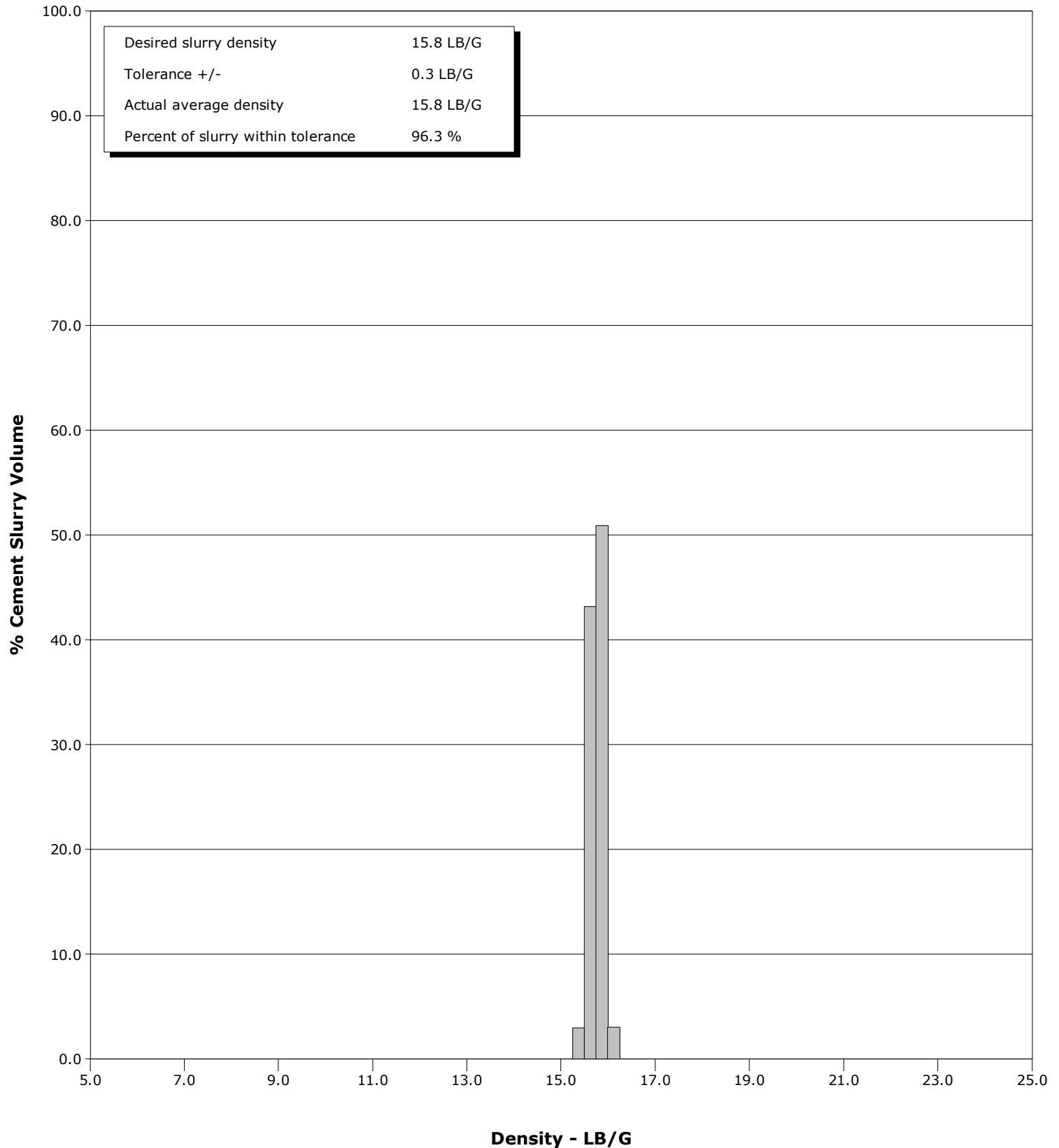
**Client** Anadarko  
**SIR No.** DA6T-00712  
**Job Type** Sussex Squeeze  
**Job Date** 03-15-2017



**Well** HSR Randy  
**Field** DJ  
**Engineer** Chris Valerio  
**Country** United States

**Client** Anadarko  
**SIR No.** DA6T-00712  
**Job Type** Sussex Squeeze  
**Job Date** 03-15-2017

Cement Slurry - 03/15/2017 14:47:15 to 03/15/2017 15:11:27



# Cementing Service Report

				Customer Anadarko			Job Number DA6T-00712	
Well HSR Randy 14-23			Location (legal)		Schlumberger Location			Job Start Mar/15/2017
Field DJ		Formation Name/Type Shale		Deviation deg	Bit Size 7.9 in	Well MD 4840.0 ft	Well TVD 4840.0 ft	
County Weld		State/Province Colorado		BHP psi	BHST 165 degF	BHCT 165 degF	Pore Press. Gradient lb/gal	
Well Master 0631707856		API/UWI 512317809						
Rig Name Basic	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	4840.0	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 Sussex Squeeze			T	4270.0	2.4	4.7	
					0.0	0.0		
Max. Allowed Tub. Press 1500 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	
				4240.0 ft	4840.0 ft		Total Interval 600.0 ft	
				0.0 ft	0.0 ft		Diameter	
				0.0 ft	0.0 ft		in	
Service Instructions 10bbl Water 10bbl SMS 10bbl Water 60.5bbl 225sks CMT @ 15.8# 1.51 Yield 6.35 gal/sk water Displace 13.5bbl Water Estimated top of CMT 4076'				Treat Down Tubing	Displacement 13.5 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. 16.5 bbl	Casing Vol. bbl	Annular Vol. 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 Mar/15/2017 13:00	Arrived on Location Mar/15/2017 13:30		Leave Location Mar/15/2017 16:00	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	Volume BBL	Message		
03/15/2017	14:26:48	49	0.0	8.35	0.0	Started Acquisition		
03/15/2017	14:26:49	49	0.0	8.35	0.0	Start Job		
03/15/2017	14:26:56	49	0.0	8.35	0.0	10bbl Water		
03/15/2017	14:29:18	2109	0.0	8.37	1.9	Pressure Test Lines		
03/15/2017	14:29:37	72	0.0	8.35	1.9	Bleed Pressure		
03/15/2017	14:31:48	645	2.7	8.38	6.5			
03/15/2017	14:33:45	81	0.0	8.38	10.0	10bbl SMS		
03/15/2017	14:36:48	667	2.8	9.09	17.5			
03/15/2017	14:39:24	31	0.0	8.34	21.1	End SMS		
03/15/2017	14:39:43	31	0.0	8.38	21.1	10bbl Water		
03/15/2017	14:41:48	535	2.7	8.38	25.1			
03/15/2017	14:44:46	45	0.0	8.38	31.0	Start Cement Slurry		
03/15/2017	14:46:48	45	0.0	15.56	31.0			
03/15/2017	14:51:48	182	2.6	15.78	43.1			
03/15/2017	14:56:48	196	2.7	16.02	56.4			
03/15/2017	15:01:48	178	2.6	15.80	69.6			
03/15/2017	15:06:48	182	2.7	15.78	82.8			
03/15/2017	15:11:48	54	0.0	15.70	95.1			
03/15/2017	15:12:28	54	0.0	12.56	95.1	End Cement Slurry 60.5bbl		
03/15/2017	15:15:18	54	0.0	10.17	95.1	Start Displacement		
03/15/2017	15:16:48	132	2.3	9.35	97.0			

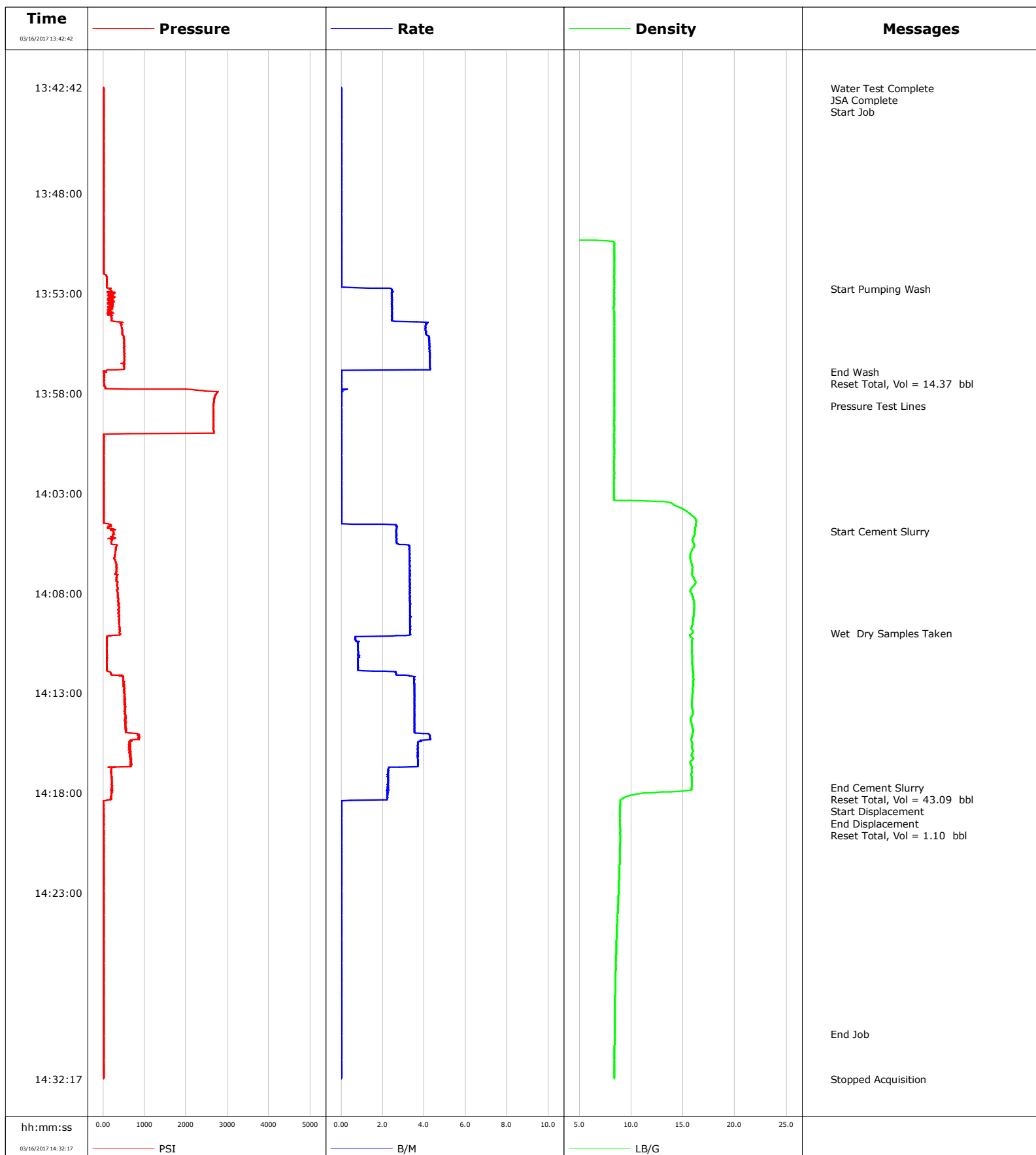
Well			Field		Job Start	Customer		Job Number
HSR Randy 14-23			DJ		Mar/15/2017	Anadarko		DA6T-00712
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/15/2017	15:26:48	31		0.0	8.55	105.1		
03/15/2017	15:31:48	956		2.7	8.41	106.8		
03/15/2017	15:36:01	40		0.0	8.38	107.9	End Displacement 13.5bbl	

## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 2.6	N2	Mud	Maximum Rate 3.4	Total Slurry 60.5	Mud 0.0	Spacer 31.1	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 1135	Final 40	Average 268	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal					
Avg. N2 Percent %	Designed Slurry Volume 60.5 bbl	Displacement 12.8 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl						
				Washed Thru Perfs <input type="checkbox"/>		To ft						
Customer or Authorized Representative Logan Lehnert			Schlumberger Supervisor Chris Valerio			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>					
						-	-					

**Well** HSR RANDY 14-23  
**Field** DJ  
**Engineer** Wayne Silvester  
**Country** United States

**Client** ANADARKO  
**SIR No.** DA6T-00713  
**Job Type** Stub Plug  
**Job Date** 03-16-2017

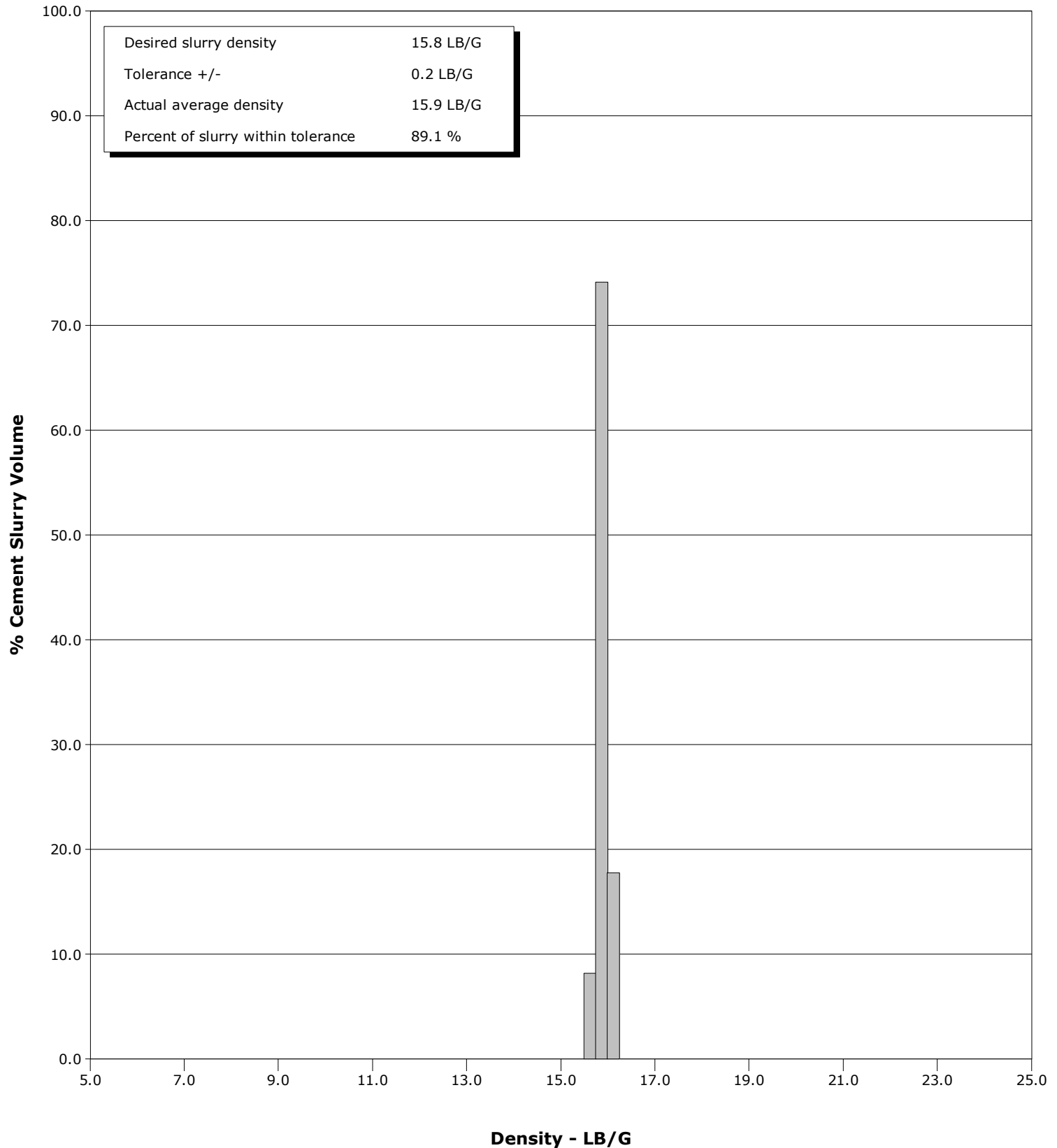




**Well** HSR RANDY 14-23  
**Field** DJ  
**Engineer** Wayne Silvester  
**Country** United States

**Client** ANADARKO  
**SIR No.** DA6T-00713  
**Job Type** Stub Plug  
**Job Date** 03-16-2017

Cement Slurry - 03/16/2017 14:04:54 to 03/16/2017 14:17:43



# Cementing Service Report

				Customer ANADARKO			Job Number DA6T-00713	
Well HSR RANDY 14-23			Location (legal) 217304		Schlumberger Location Cheyenne		Job Start Mar/16/2017	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 1100.0 ft		Well TVD 1100.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 90 degF	BHCT 80 degF	Pore Press. Gradient lb/gal	
Well Master 0631707856		API/UWI 512317809						
Rig Name BASIC	Drilled For Oil & Gas	Service Via Land	Casing/ Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class Old	Well Type Workover	1100.0	4.5	11.6	N/A	N/A	
			772.0	8.6	24.0	N/A	N/A	
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 Stub Plug			T	1100.0	2.4	4.7	N/A
					0.0	0.0	0.0	
Max. Allowed Tub. Press 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. 2.0 bbl	Casing Vol. bbl	Annular Vol. 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 Mar/16/2017		Arrived on Location Mar/16/2017		Leave Location Mar/16/2017		Collar Type		
						Collar Depth ft		
						Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message		
03/16/2017	13:42:42	0.0	0.01	0.0	17	Started Acquisition		
03/16/2017	13:42:44	0.0	0.01	0.0	22	Water Test Complete		
03/16/2017	13:42:45	0.0	0.01	0.0	22	Start Job		
03/16/2017	13:47:43	0.0	0.01	0.0	22			
03/16/2017	13:52:44	0.7	8.36	0.0	86			
03/16/2017	13:52:47	2.4	8.36	0.1	168	Start Pumping Wash		
03/16/2017	13:56:56	0.0	8.36	14.4	8	End Wash		
03/16/2017	13:56:59	0.0	8.36	14.4	27	Reset Total, Vol = 14.37 bbl		
03/16/2017	13:57:45	0.0	8.36	14.4	54			
03/16/2017	13:58:38	0.0	8.37	14.4	2663	Pressure Test Lines		
03/16/2017	14:02:46	0.0	8.35	14.4	22			
03/16/2017	14:04:54	2.6	16.15	14.4	251	Start Cement Slurry		
03/16/2017	14:07:47	3.3	15.78	21.8	361			
03/16/2017	14:10:00	3.3	15.91	29.2	402	Wet Dry Samples Taken		
03/16/2017	14:12:48	3.5	15.95	34.1	507			
03/16/2017	14:17:43	2.2	15.82	50.6	210	End Cement Slurry		
03/16/2017	14:17:49	2.2	15.81	50.8	214			
03/16/2017	14:17:51	2.3	15.85	50.9	200	Reset Total, Vol = 43.09 bbl		
03/16/2017	14:18:08	2.2	9.80	51.5	210	Start Displacement		
03/16/2017	14:18:40	0.0	8.92	52.1	13	End Displacement		
03/16/2017	14:18:59	0.0	8.91	52.1	13	Reset Total, Vol = 1.10 bbl		

Well HSR RANDY 14-23			Field DJ		Job Start Mar/16/2017	Customer ANADARKO		Job Number DA6T-00713	
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message			
03/16/2017	14:27:51	0.0	8.46	52.1	17				
03/16/2017	14:30:03	0.0	8.40	52.1	17	End Job			

## Post Job Summary

Average Pump Rates, bbl/ min					Volume of Fluid Injected, bbl				
Slurry 3.0	N2	Mud	Maximum Rate 4.3	Total Slurry 43.1	Mud 0.0	Spacer 15.2	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 2778	Final 17	Average 263	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %	Designed Slurry Volume 43.0 bbl	Displacement 1.1 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl			
				Washed Thru Perfs <input type="checkbox"/>		To ft			
Customer or Authorized Representative Logan Lehnert			Schlumberger Supervisor Wayne Silvester		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
					-	-			