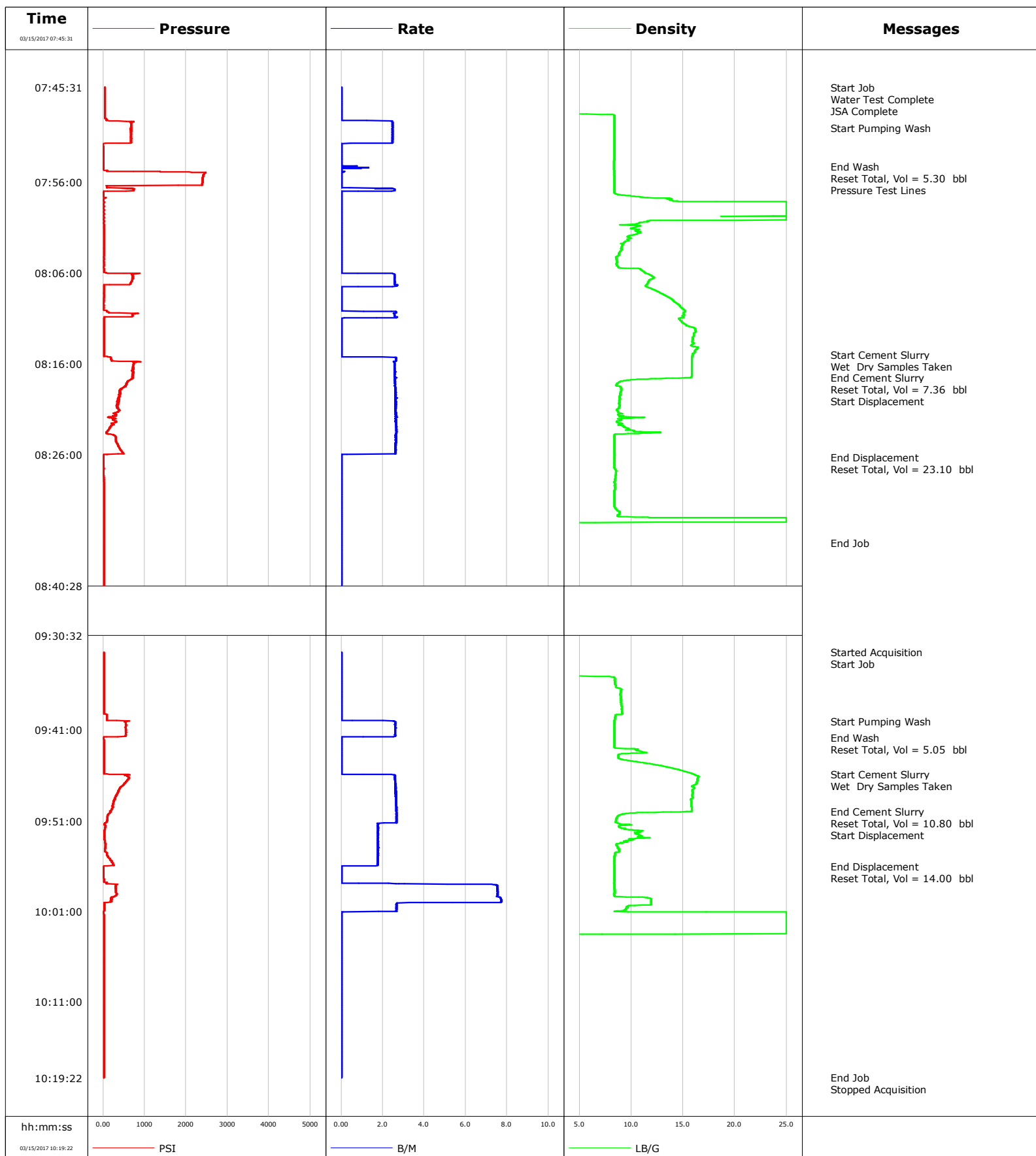


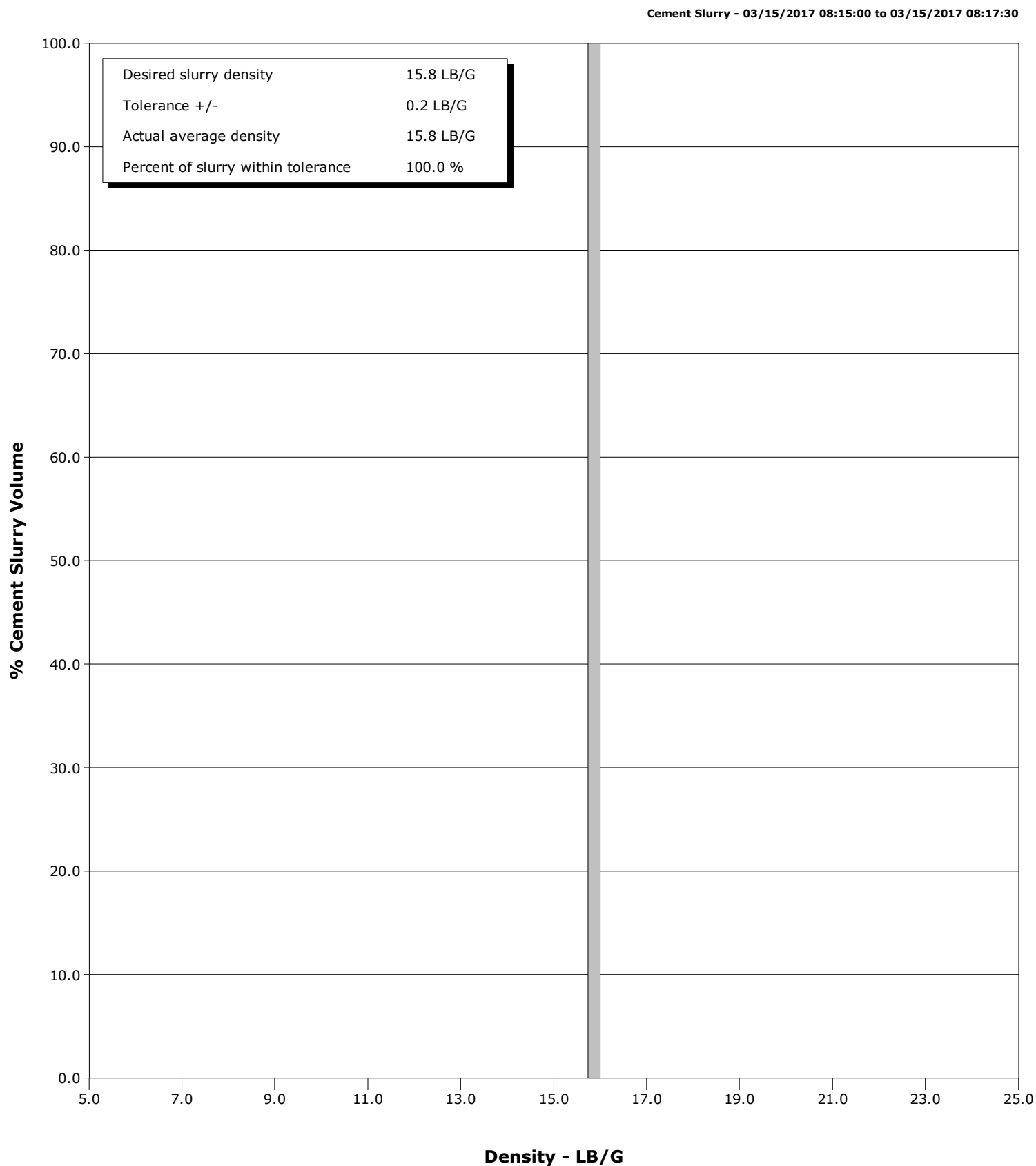
Well PIONEER 12-12
Field DJ
Engineer Wayne Silvester
Country United States

Client ANADARKO
SIR No. DA6T-00708
Job Type Nio Sussex Plug
Job Date 03-15-2017



Well PIONEER 12-12
Field DJ
Engineer Wayne Silvester
Country United States

Client ANADARKO
SIR No. DA6T-00708
Job Type Nio Sussex Plug
Job Date 03-15-2017



Cementing Service Report

				Customer ANADARKO			Job Number DA6T-00708	
Well PIONEER 12-12			Location (legal) 217304		Schlumberger Location Cheyenne		Job Start Mar/15/2017	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 6980.0 ft	Well TVD 6980.0 ft	
County Weld		State/Province Colorado		BHP psi	BHST 220 degF	BHCT 210 degF	Pore Press. Gradient lb/gal	
Well Master 0631043388		API/UWI 512327079						
Rig Name T-BIRD 6		Drilled For Oil & Gas		Service Via Land		Casing/ Liner		
						Depth, ft	Size, in	Weight, lb/ft
Offshore Zone		Well Class Old		Well Type Other		6980.0	4.5	11.6
						4814.0	4.5	11.6
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe		
						T/D	Depth, ft	Size, in
Service Line Cementing		Job Type Nio & Sussex Plug				T	6980.0	2.4
						T	4814.0	2.4
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
Service Instructions						ft	ft	
Nio Plug = 25 sks 1.53 ft/sk 6.350 gps = 7 bbls						ft	ft	
Est Toc= 6530 ft CW7 5 bbls CMT 7 bbls Displace 24 bbls						ft	ft	
Sussex Plug= 40 sks 1.53 ft/sk 6.354 gps = 10.8 bbls						Treat Down	Displacement	Packer Type
Est Toc= 4120 ft CW7 5 bbls CMT 10.8 bbls Displace 14.6 bbls						Tubing	38.6 bbl	
						Tubing Vol.	Casing Vol.	Annular Vol.
						38.6 bbl	bbl	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		Arrived on Location Mar/15/2017		Leave Location Mar/15/2017		Collar Type		Tail Pipe Depth ft
						Collar Depth ft		Sqz. Total Vol. bbl
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message		
03/15/2017	07:45:31	0.0	0.01	0.0	40	Started Acquisition		
03/15/2017	07:45:37	0.0	0.01	0.0	40	Water Test Complete		
03/15/2017	07:50:01	2.5	8.36	2.0	686	Start Pumping Wash		
03/15/2017	07:50:32	2.5	8.37	3.3	672			
03/15/2017	07:54:16	0.0	8.35	6.2	4	End Wash		
03/15/2017	07:54:18	0.0	8.35	6.2	4	Reset Total, Vol = 5.30 bbl		
03/15/2017	07:55:25	0.0	8.35	6.3	2407	Pressure Test Lines		
03/15/2017	07:55:33	0.0	8.35	6.3	2402			
03/15/2017	08:00:34	0.0	10.57	7.1	8			
03/15/2017	08:05:35	0.0	10.90	7.1	13			
03/15/2017	08:10:36	2.6	15.12	7.6	704			
03/15/2017	08:15:00	0.0	15.93	8.5	17	Start Cement Slurry		
03/15/2017	08:15:30	2.7	15.85	8.5	210	Wet Dry Samples Taken		
03/15/2017	08:15:37	2.7	15.84	8.6	205			
03/15/2017	08:17:30	2.6	15.80	13.4	722	End Cement Slurry		
03/15/2017	08:17:34	2.6	15.27	13.6	713	Reset Total, Vol = 7.36 bbl		
03/15/2017	08:17:37	2.6	13.41	13.8	713	Start Displacement		
03/15/2017	08:20:38	2.6	8.87	21.6	338			
03/15/2017	08:25:39	2.6	8.36	34.9	452			
03/15/2017	08:26:20	0.0	8.36	35.7	4	End Displacement		
03/15/2017	08:26:39	0.0	8.35	35.7	8	Reset Total, Vol = 23.10 bbl		

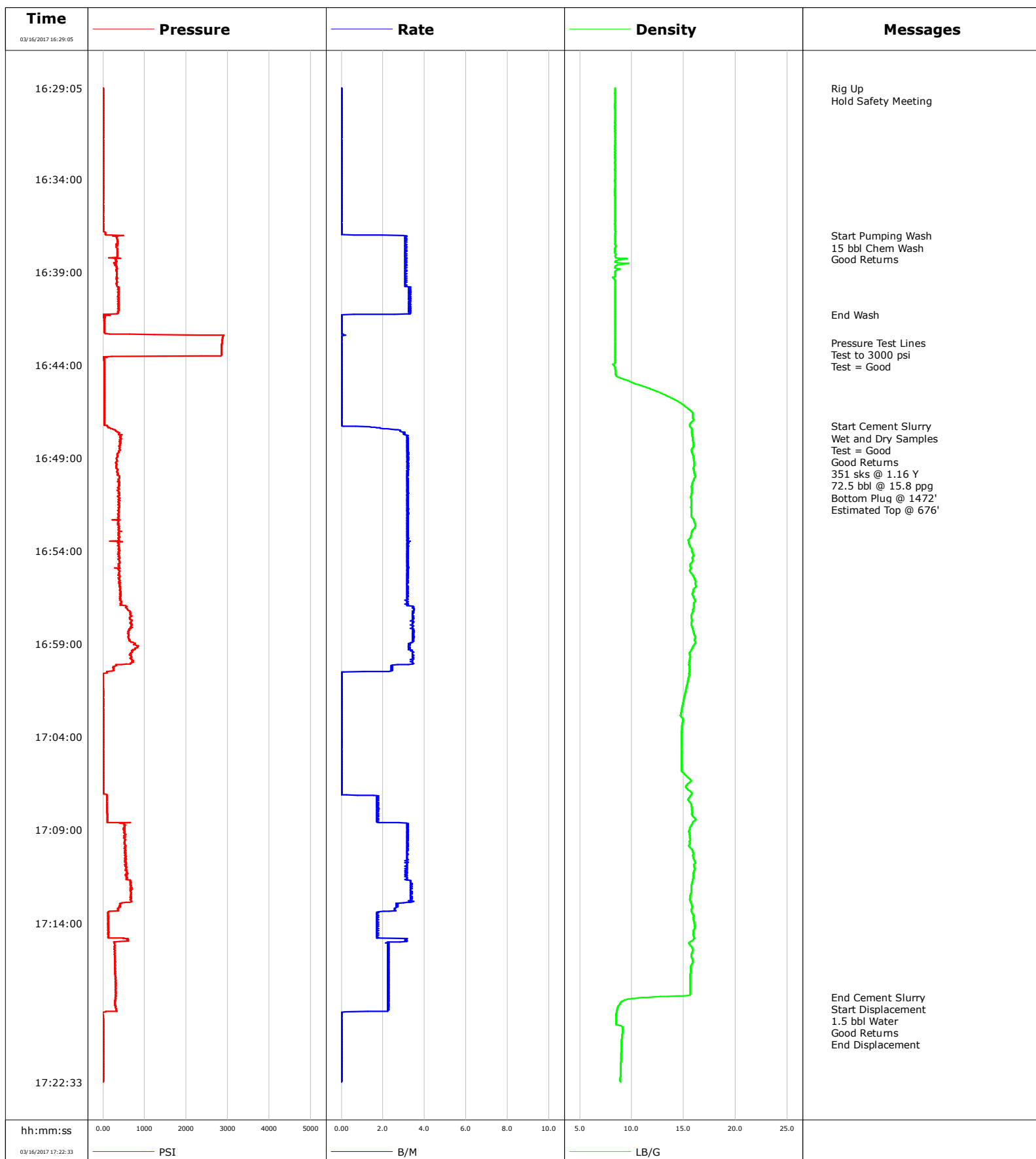
Well			Field		Job Start		Customer		Job Number	
PIONEER 12-12			DJ		Mar/15/2017		ANADARKO		DA6T-00708	
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	Pressure PSI	Message				
03/15/2017	08:35:41	0.0	2.33	35.7	13					
03/15/2017	08:35:44	0.0	2.37	35.7	13	End Job				
03/15/2017	08:40:42	0.0	3.14	35.7	13					
03/15/2017	08:45:43	0.0	1.78	35.7	13					
03/15/2017	08:50:44	0.0	1.04	35.7	13					
03/15/2017	08:50:48	0.0	1.04	35.7	13	Stopped Acquisition				
03/15/2017	09:32:29	0.0	0.82	0.0	13	Start Job				
03/15/2017	09:35:53	0.0	8.41	0.0	13					
03/15/2017	09:40:00	2.5	8.38	0.1	635	Start Pumping Wash				
03/15/2017	09:40:54	2.6	8.37	2.5	539					
03/15/2017	09:41:49	0.0	8.37	4.7	8	End Wash				
03/15/2017	09:41:52	0.0	8.37	4.7	8	Reset Total, Vol = 5.05 bbl				
03/15/2017	09:45:49	0.0	15.90	4.7	17	Start Cement Slurry				
03/15/2017	09:45:55	2.4	16.11	4.7	617					
03/15/2017	09:47:08	2.6	15.94	6.9	480	Wet Dry Samples Taken				
03/15/2017	09:49:59	2.7	15.73	14.4	173	End Cement Slurry				
03/15/2017	09:50:08	2.7	10.32	14.8	159	Start Displacement				
03/15/2017	09:50:56	2.6	8.53	16.9	100					
03/15/2017	09:55:57	1.7	8.35	26.1	260					
03/15/2017	09:56:02	0.0	8.35	26.2	8	End Displacement				
03/15/2017	09:56:04	0.0	8.35	26.2	4	Reset Total, Vol = 14.00 bbl				
03/15/2017	10:00:58	2.7	8.60	31.6	22					
03/15/2017	10:05:59	0.0	0.27	31.6	17					
03/15/2017	10:11:00	0.0	0.01	31.6	17					
03/15/2017	10:16:01	0.0	0.01	31.6	17					
03/15/2017	10:19:16	0.0	0.01	31.6	17	End Job				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 3.0	N2	Mud	Maximum Rate 7.7		Total Slurry 17.8	Mud 0.0	Spacer 10.2	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2555	Final 17	Average 90	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %		Designed Slurry Volume 17.8 bbl		Displacement 38.6 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 Nick Lang			Schlumberger Supervisor Wayne Silvester			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>			
						-		-			

Well Pioneer 12-12
Field DJ
Engineer Matt Leiker
Country United States

Client Anadarko
SIR No. DA6T-00710
Job Type Plug
Job Date 03-16-2017



Cementing Service Report

				Customer Anadarko		Job Number DA6T-00710	
Well Pioneer 12-12		Location (legal)		Schlumberger Location		Job Start Mar/16/2017	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County Weld		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master 0631043388		API/UWI 05123270790000					
Rig Name T-Bird 6	Drilled For Oil	Service Via Land	Casing/Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Workover					
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing	Job Type Plug			T	1472.0	2.4	4.7
					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 in
			ft	ft			
			Treat Down Tubing	Displacement 1.5 bbl	Packer Type	Packer Depth ft	
			Tubing Vol. 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		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 PSI	Message	
03/16/2017	16:29:05	0	0.0	8.38	0	Started Acquisition	
03/16/2017	16:29:08	0	0.0	8.39	0	Rig Up	
03/16/2017	16:29:09	0	0.0	8.38	0	Hold Safety Meeting	
03/16/2017	16:31:05	0	0.0	8.38	0		
03/16/2017	16:33:05	5	0.0	8.38	0		
03/16/2017	16:35:05	0	0.0	8.39	0		
03/16/2017	16:37:02	494	3.0	8.41	0	Start Pumping Wash	
03/16/2017	16:37:04	325	3.1	8.41	0	15 bbl Chem Wash	
03/16/2017	16:37:05	325	3.2	8.41	0		
03/16/2017	16:39:05	339	3.1	8.39	0		
03/16/2017	16:41:05	362	3.2	8.39	0		
03/16/2017	16:41:17	18	0.6	8.39	0	End Wash	
03/16/2017	16:42:47	2861	0.0	8.39	0	Pressure Test Lines	
03/16/2017	16:42:50	2861	0.0	8.39	0	Test to 3000 psi	
03/16/2017	16:43:05	2856	0.0	8.39	0		
03/16/2017	16:45:05	27	0.0	10.81	0		
03/16/2017	16:47:05	27	0.0	15.73	0		
03/16/2017	16:47:17	96	0.1	15.59	0	Start Cement Slurry	
03/16/2017	16:47:18	96	0.7	15.60	0	Wet and Dry Samples	
03/16/2017	16:47:19	101	1.4	15.63	0	Test = Good	
03/16/2017	16:47:20	133	1.4	15.66	0	72.5 bbl @ 15.8 ppg	

Well			Field		Job Start	Customer		Job Number
Pioneer 12-12			DJ		Mar/16/2017	Anadarko		DA6T-00710
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume PSI	Message		
03/16/2017	16:51:05	362	3.2	15.70	0			
03/16/2017	16:53:05	389	3.2	15.75	0			
03/16/2017	16:55:05	403	3.2	15.61	0			
03/16/2017	16:57:05	572	3.5	15.95	0			
03/16/2017	16:59:05	833	3.2	15.96	0			
03/16/2017	17:01:05	-5	0.0	15.37	0			
03/16/2017	17:03:05	0	0.0	14.94	0			
03/16/2017	17:05:05	0	0.0	14.79	0			
03/16/2017	17:07:05	87	0.0	15.77	0			
03/16/2017	17:09:05	526	3.2	15.52	0			
03/16/2017	17:11:05	545	3.1	16.05	0			
03/16/2017	17:13:05	407	2.7	15.81	0			
03/16/2017	17:15:05	279	2.3	15.52	0			
03/16/2017	17:17:05	311	2.3	15.65	0			
03/16/2017	17:17:59	298	2.2	12.06	0	End Cement Slurry		
03/16/2017	17:18:02	293	2.2	10.62	0	Start Displacement		
03/16/2017	17:18:04	302	2.2	10.05	0	1.5 bbl Water		
03/16/2017	17:18:46	69	1.3	8.55	0	End Displacement		
03/16/2017	17:19:05	-5	0.0	8.51	0			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 2.9	N2	Mud	Maximum Rate 3.5	Total Slurry 72.5	Mud 0.0	Spacer 15.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 2916	Final 5	Average 373	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 72.5 bbl	Displacement 1.5 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"/>		
						-	-		