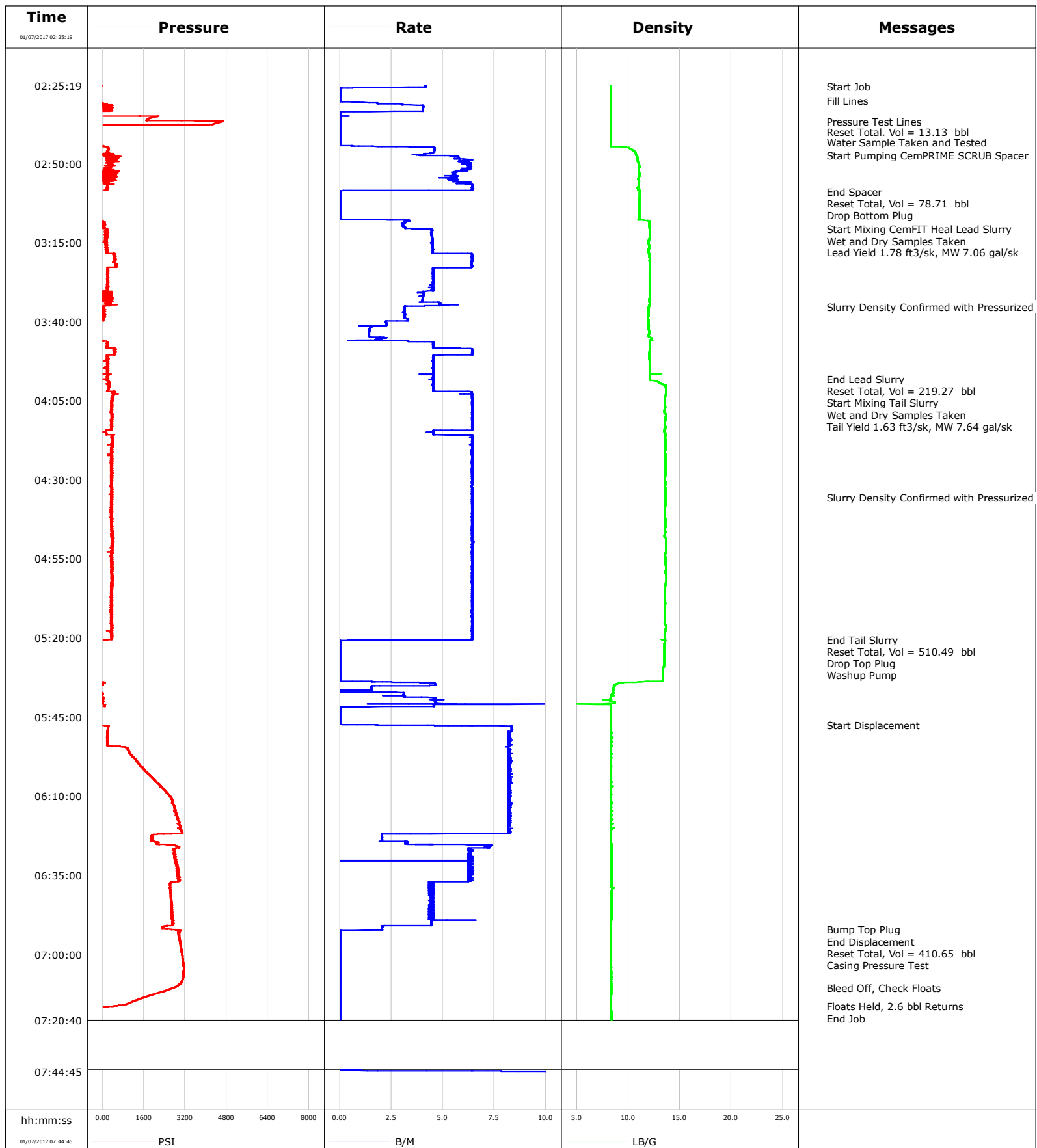


Well Jaguar 36C-35HZ
Field Wattenberg
Engineer Tylan Higley
Country United States

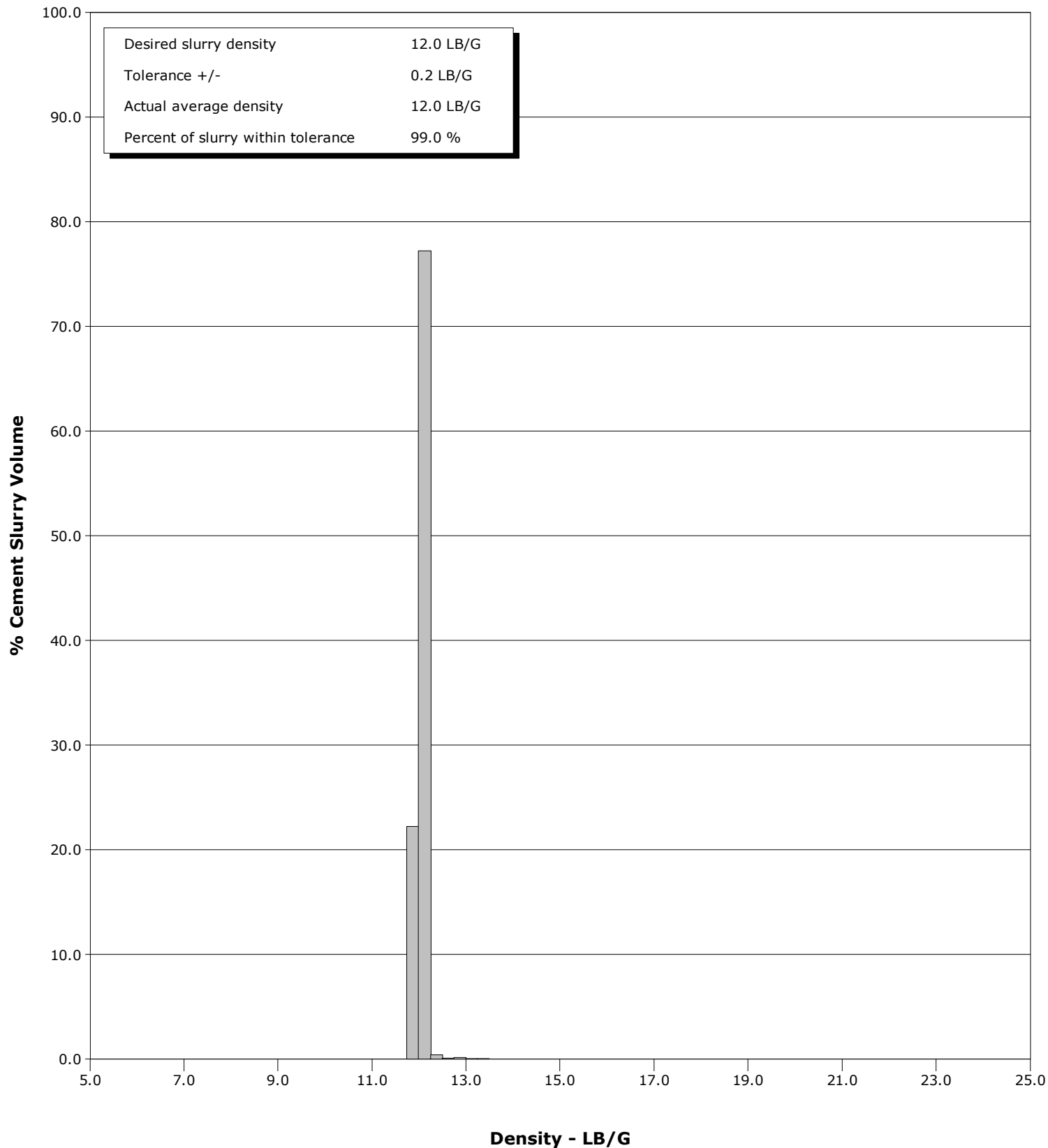
Client Anadarko Petroleum Company
SIR No. DDGG-00756
Job Type Monobore Production
Job Date 01-06-2017



Well Jaguar 36C-35HZ
Field Wattenberg
Engineer Tylan Higley
Country United States

Client Anadarko Petroleum Company
SIR No. DDGG-00756
Job Type Monobore Production
Job Date 01-06-2017

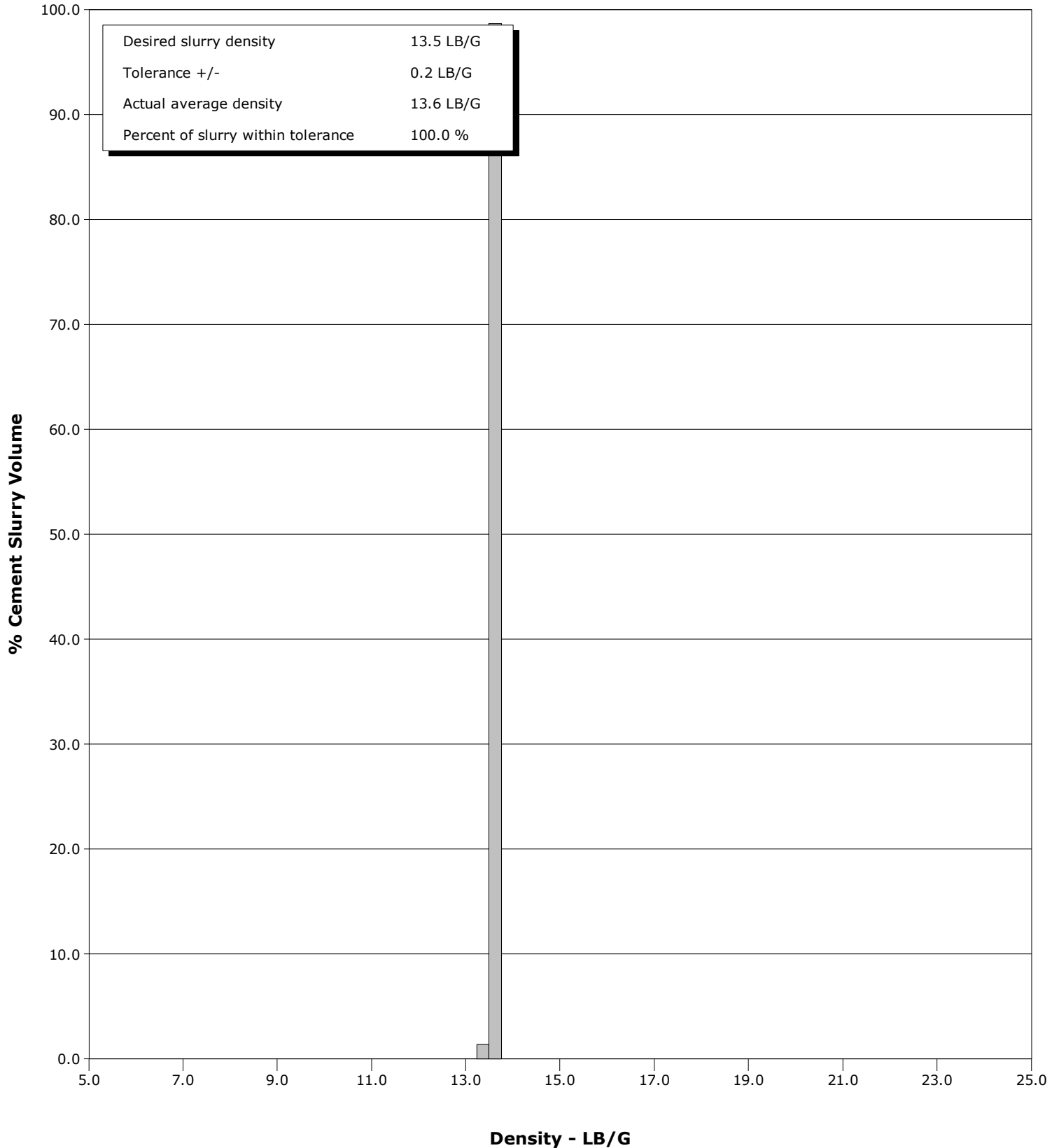
Cement Slurry - 01/07/2017 03:11:57 to 01/07/2017 03:57:51



Well Jaguar 36C-35HZ
Field Wattenberg
Engineer Tylan Higley
Country United States

Client Anadarko Petroleum Company
SIR No. DDGG-00756
Job Type Monobore Production
Job Date 01-06-2017

Cement Slurry - 01/07/2017 04:01:39 to 01/07/2017 05:18:59



Cementing Service Report

				Customer Anadarko Petroleum Company			Job Number DDGG-00756								
Well Jaguar 36C-35HZ			Location (legal)			Schlumberger Location Cheyenne, WY			Job Start Jan/07/2017						
Field Wattenberg		Formation Name/Type			Deviation 90 deg		Bit Size 8.5 in		Well MD 18069.0 ft		Well TVD 7720.0 ft				
County		State/Province Colorado			BHP psi		BHST 230 degF		BHCT 229 degF		Pore Press. Gradient lb/gal				
Well Master 0631663006		API/UWI 05123426240000													
Rig Name Xtreme 24		Drilled For Oil & Gas		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class New		Well Type Development		2250.0		9.6		36.0		J-55			
						18056.0		5.5		17.0		HCP-110			
Drilling Fluid Type OBM		Max. Density 9.00 lb/gal		Plastic Viscosity 82.000 cP		Tubing/Drill Pipe									
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade	Thread
Service Line Cementing		Job Type Monobore Production													
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 5.5" Cement Head		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 Casing		Displacement 419.7 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. bbl		Casing Vol. 419.8 bbl		Annular Vol. 771.9 bbl		Openhole Vol. 663.9 bbl			
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools				Squeeze Job					
Lift Pressure 12920 psi						Shoe Type Guide				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 18056.0 ft				Tool Type					
No. Centralizers 268		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft					
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Jan/06/2017 18:00		Arrived on Location Jan/06/2016 18:00		Leave Location Jan/07/2017 09:15		Collar Type Float				Tail Pipe Depth ft					
						Collar Depth 18052.8 ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
01/07/2017	02:25:19	-15	4.2	8.31	63.6	Started Acquisition									
01/07/2017	02:25:36	-53	4.2	8.31	64.8	Start Job									
01/07/2017	02:27:19	-194	0.0	8.31	0.0										
01/07/2017	02:29:19	-194	0.0	8.32	0.0										
01/07/2017	02:30:08	-195	0.0	8.31	0.0	Fill Lines									
01/07/2017	02:31:19	-28	3.0	8.31	1.4										
01/07/2017	02:35:19	1999	0.0	8.31	10.3										
01/07/2017	02:36:47	4608	0.0	8.31	10.3	Pressure Test Lines									
01/07/2017	02:37:19	4386	0.0	8.31	10.3										
01/07/2017	02:39:19	-188	0.0	8.30	10.3										
01/07/2017	02:39:59	-188	0.0	8.31	10.3	Reset Total, Vol = 13.13 bbl									
01/07/2017	02:41:19	-147	0.0	8.31	10.3										
01/07/2017	02:43:13	-137	0.0	8.31	10.3	Water Sample Taken and Tested									
01/07/2017	02:43:19	-138	0.0	8.31	10.3										
01/07/2017	02:45:19	205	4.6	10.18	13.4										
01/07/2017	02:47:19	360	3.9	10.77	22.2										
01/07/2017	02:47:28	358	4.0	10.79	22.8	Start Pumping CemPRIME SCRUB Spacer									
01/07/2017	02:49:19	291	5.9	10.92	33.6										
01/07/2017	02:51:19	294	6.3	11.03	46.1										
01/07/2017	02:53:19	-41	5.5	11.07	57.8										
01/07/2017	02:55:19	12	5.5	11.02	68.9										

Well			Field		Job Start		Customer		Job Number	
Jaguar 36C-35HZ			Wattenberg		Jan/07/2017		Anadarko Petroleum Company		DDGG-00756	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message	
01/07/2017	02:58:48	-172		0.0	11.13		89.0		End Spacer	
01/07/2017	02:58:52	-174		0.0	11.12		89.0		Reset Total, Vol = 78.71 bbl	
01/07/2017	02:59:19	-180		0.0	11.10		89.0			
01/07/2017	03:01:19	-183		0.0	11.07		89.0			
01/07/2017	03:03:19	-185		0.0	11.06		89.0			
01/07/2017	03:05:08	-185		0.0	11.06		89.0		Drop Bottom Plug	
01/07/2017	03:05:19	-190		0.0	11.05		89.0			
01/07/2017	03:07:19	-195		0.0	11.04		89.0			
01/07/2017	03:09:19	5		3.0	12.00		93.8			
01/07/2017	03:10:40	165		4.4	12.05		98.1		Start Mixing CemFIT Heal Lead Slurry	
01/07/2017	03:10:55	151		4.5	12.06		99.2		Wet and Dry Samples Taken	
01/07/2017	03:11:19	178		4.5	12.07		101.0			
01/07/2017	03:12:14	166		4.5	12.07		105.1		Lead Yield 1.78 ft3/sk, MW 7.06 gal/sk	
01/07/2017	03:13:19	83		4.5	12.05		109.9			
01/07/2017	03:15:19	127		4.5	11.98		118.9			
01/07/2017	03:17:19	188		4.5	11.98		127.9			
01/07/2017	03:19:19	433		6.4	12.03		138.6			
01/07/2017	03:21:19	480		6.4	12.05		151.4			
01/07/2017	03:23:19	195		4.5	12.10		163.5			
01/07/2017	03:25:19	206		4.5	12.04		172.6			
01/07/2017	03:27:19	205		4.5	12.07		181.6			
01/07/2017	03:29:19	200		4.5	12.07		190.6			
01/07/2017	03:31:19	229		4.0	12.05		199.2			
01/07/2017	03:33:19	-7		4.0	12.02		207.2			
01/07/2017	03:35:16	-68		3.1	11.99		215.9		Slurry Density Confirmed with Pressurized Mud Balance	
01/07/2017	03:35:19	37		3.1	11.98		216.1			
01/07/2017	03:37:19	-47		3.1	11.96		222.3			
01/07/2017	03:39:19	63		3.3	11.94		228.7			
01/07/2017	03:41:19	-94		1.9	11.98		233.6			
01/07/2017	03:43:19	-140		1.4	12.00		236.6			
01/07/2017	03:45:19	-94		2.1	12.25		239.7			
01/07/2017	03:47:19	182		4.5	12.05		246.4			
01/07/2017	03:49:19	485		6.4	12.04		257.2			
01/07/2017	03:51:19	178		4.5	12.02		268.7			
01/07/2017	03:53:19	160		4.6	12.06		277.7			
01/07/2017	03:55:19	194		4.5	12.08		286.8			
01/07/2017	03:57:19	176		4.6	12.08		295.8			
01/07/2017	03:58:11	159		4.5	12.08		299.7		End Lead Slurry	
01/07/2017	03:59:19	215		4.5	13.02		304.9			
01/07/2017	04:00:04	256		4.5	13.57		308.3		Reset Total, Vol = 219.27 bbl	
01/07/2017	04:00:10	270		4.5	13.61		308.7		Start Mixing Tail Slurry	
01/07/2017	04:01:19	193		4.5	13.65		313.9			
01/07/2017	04:03:19	410		6.4	13.59		325.3			
01/07/2017	04:03:50	383		6.4	13.55		328.6		Wet and Dry Samples Taken	
01/07/2017	04:05:19	367		6.4	13.53		338.2			
01/07/2017	04:07:19	346		6.4	13.55		351.0			
01/07/2017	04:08:20	356		6.4	13.48		357.5		Tail Yield 1.63 ft3/sk, MW 7.64 gal/sk	
01/07/2017	04:09:19	344		6.4	13.64		363.8			
01/07/2017	04:11:19	354		6.4	13.57		376.7			
01/07/2017	04:13:19	356		6.4	13.57		389.5			
01/07/2017	04:15:19	138		4.5	13.59		400.4			
01/07/2017	04:17:19	403		6.4	13.59		412.3			
01/07/2017	04:19:19	368		6.4	13.58		425.2			
01/07/2017	04:21:19	314		6.4	13.56		438.0			

Well			Field	Job Start		Customer		Job Number
Jaguar 36C-35HZ			Wattenberg	Jan/07/2017		Anadarko Petroleum Company		DDGG-00756
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/07/2017	04:25:19	356	6.4	13.57	463.7			
01/07/2017	04:27:19	348	6.4	13.61	476.5			
01/07/2017	04:29:19	374	6.4	13.56	489.4			
01/07/2017	04:31:19	332	6.4	13.58	502.2			
01/07/2017	04:33:19	375	6.4	13.60	515.0			
01/07/2017	04:35:19	349	6.4	13.58	527.8			
01/07/2017	04:35:39	333	6.4	13.57	530.0	Slurry Density Confirmed with Pressurized Mud Balance		
01/07/2017	04:37:19	330	6.4	13.57	540.7			
01/07/2017	04:39:19	327	6.4	13.56	553.5			
01/07/2017	04:41:19	332	6.4	13.54	566.4			
01/07/2017	04:43:19	334	6.4	13.59	579.2			
01/07/2017	04:45:19	384	6.4	13.56	592.0			
01/07/2017	04:47:19	341	6.4	13.53	604.9			
01/07/2017	04:49:19	405	6.4	13.68	617.7			
01/07/2017	04:51:19	379	6.4	13.64	630.6			
01/07/2017	04:53:19	341	6.4	13.58	643.4			
01/07/2017	04:55:19	367	6.4	13.59	656.2			
01/07/2017	04:57:19	365	6.4	13.62	669.1			
01/07/2017	04:59:19	348	6.4	13.60	681.9			
01/07/2017	05:01:19	360	6.4	13.68	694.8			
01/07/2017	05:03:19	360	6.4	13.57	707.6			
01/07/2017	05:05:19	330	6.4	13.56	720.4			
01/07/2017	05:07:19	362	6.4	13.56	733.3			
01/07/2017	05:09:19	362	6.4	13.56	746.1			
01/07/2017	05:11:19	332	6.4	13.55	758.9			
01/07/2017	05:13:19	348	6.4	13.54	771.8			
01/07/2017	05:15:19	332	6.4	13.52	784.6			
01/07/2017	05:17:19	358	6.4	13.58	797.4			
01/07/2017	05:19:19	343	6.4	13.54	810.3			
01/07/2017	05:20:30	317	6.4	13.19	817.9	End Tail Slurry		
01/07/2017	05:20:40	-180	1.1	13.61	818.7	Reset Total, Vol = 510.49 bbl		
01/07/2017	05:20:44	-182	0.0	13.58	818.8	Drop Top Plug		
01/07/2017	05:20:50	-184	0.0	13.56	818.8	Washup Pump		
01/07/2017	05:21:19	-187	0.0	13.53	818.8			
01/07/2017	05:23:19	-187	0.0	13.51	818.8			
01/07/2017	05:25:19	-187	0.0	13.49	818.8			
01/07/2017	05:27:19	-187	0.0	13.48	818.8			
01/07/2017	05:29:19	-187	0.0	13.39	818.8			
01/07/2017	05:31:19	-187	0.0	13.34	818.8			
01/07/2017	05:33:19	-187	0.0	13.34	818.8			
01/07/2017	05:35:19	-158	1.5	8.63	824.5			
01/07/2017	05:37:19	-0	3.1	8.60	826.9			
01/07/2017	05:39:19	-7	4.7	8.17	834.0			
01/07/2017	05:41:19	98	4.6	8.31	843.3			
01/07/2017	05:43:19	-191	0.0	8.31	845.0			
01/07/2017	05:45:19	-194	0.0	8.31	845.1			
01/07/2017	05:47:19	-92	0.3	8.31	845.1			
01/07/2017	05:47:32	-28	4.3	8.31	845.5	Start Displacement		
01/07/2017	05:49:19	195	8.3	8.31	859.7			
01/07/2017	05:51:19	176	8.2	8.45	876.0			
01/07/2017	05:53:19	194	8.2	8.34	892.4			
01/07/2017	05:55:19	996	8.2	8.33	908.8			
01/07/2017	05:57:19	1157	8.2	8.33	925.1			
01/07/2017	05:59:19	1354	8.2	8.32	941.5			

Well			Field	Job Start		Customer		Job Number
Jaguar 36C-35HZ			Wattenberg	Jan/07/2017		Anadarko Petroleum Company		DDGG-00756
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/07/2017	06:03:19	1835	8.2	8.31	974.2			
01/07/2017	06:05:19	2060	8.3	8.32	990.6			
01/07/2017	06:07:19	2316	8.2	8.33	1007.0			
01/07/2017	06:09:19	2525	8.2	8.34	1023.3			
01/07/2017	06:11:19	2700	8.2	8.33	1039.7			
01/07/2017	06:15:19	2851	8.2	8.32	1072.4			
01/07/2017	06:17:19	2898	8.2	8.45	1088.8			
01/07/2017	06:19:19	3001	8.2	8.33	1105.2			
01/07/2017	06:21:19	3075	8.2	8.33	1121.5			
01/07/2017	06:23:19	1931	2.0	8.34	1128.8			
01/07/2017	06:25:19	2491	6.4	8.36	1134.5			
01/07/2017	06:27:19	2762	6.2	8.37	1148.0			
01/07/2017	06:29:19	2806	6.2	8.37	1160.6			
01/07/2017	06:31:19	2863	6.4	8.39	1173.2			
01/07/2017	06:33:19	2939	6.2	8.38	1185.8			
01/07/2017	06:35:19	2906	6.4	8.37	1198.5			
01/07/2017	06:37:19	2629	4.3	8.38	1210.4			
01/07/2017	06:39:19	2608	4.3	8.45	1219.3			
01/07/2017	06:41:19	2650	4.4	8.39	1228.2			
01/07/2017	06:43:19	2670	4.5	8.39	1237.1			
01/07/2017	06:45:19	2658	4.4	8.39	1246.0			
01/07/2017	06:47:19	2676	4.5	8.39	1254.9			
01/07/2017	06:49:19	2737	4.4	8.34	1263.8			
01/07/2017	06:51:19	2346	2.1	8.34	1271.6			
01/07/2017	06:52:11	2864	2.0	8.34	1273.4	Bump Top Plug		
01/07/2017	06:52:43	2923	0.0	8.34	1273.7	End Displacement		
01/07/2017	06:53:19	2928	0.0	8.34	1273.8			
01/07/2017	06:55:19	2978	0.0	8.34	1273.8			
01/07/2017	06:56:01	3004	0.0	8.34	1273.8	Reset Total, Vol = 410.65 bbl		
01/07/2017	06:57:19	3020	0.0	8.35	1273.8			
01/07/2017	06:59:19	3063	0.0	8.35	1273.8			
01/07/2017	06:59:22	3065	0.0	8.35	1273.8	Casing Pressure Test		
01/07/2017	07:01:19	3099	0.0	8.35	1273.8			
01/07/2017	07:03:19	3133	0.0	8.35	1273.8			
01/07/2017	07:05:19	3151	0.0	8.35	1273.8			
01/07/2017	07:07:19	3116	0.0	8.35	1273.8			
01/07/2017	07:09:19	3008	0.0	8.35	1273.8			
01/07/2017	07:10:27	2772	0.0	8.35	1273.8	Bleed Off, Check Floats		
01/07/2017	07:11:19	2495	0.0	8.35	1273.8			
01/07/2017	07:13:19	1704	0.0	8.35	1273.8			
01/07/2017	07:15:19	1041	0.0	8.35	1273.8			
01/07/2017	07:16:22	350	0.0	8.35	1273.8	Floats Held, 2.6 bbl Returns		
01/07/2017	07:17:19	-184	0.0	8.35	1273.8			
01/07/2017	07:17:38	-185	0.0	8.35	1273.8	End Job		
01/07/2017	07:19:19	-189	0.0	8.35	1273.8			
01/07/2017	07:21:19	-194	0.0	8.35	1273.9			
01/07/2017	07:23:19	-163	0.0	0.12	1274.2			
01/07/2017	07:25:19	-165	4.2	0.06	1274.4			
01/07/2017	07:27:19	-165	9.4	0.04	1278.5			
01/07/2017	07:29:19	-167	0.0	0.03	1279.1			
01/07/2017	07:31:19	-168	4.5	0.01	1294.9			
01/07/2017	07:33:19	-165	14.5	0.04	1314.4			
01/07/2017	07:35:19	-166	2.3	0.01	1323.7			
01/07/2017	07:37:19	-193	4.4	0.00	1330.8			

Well Jaguar 36C-35HZ			Field Wattenberg		Job Start Jan/07/2017		Customer Anadarko Petroleum Company		Job Number DDGG-00756	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
01/07/2017	07:41:19	-193	25.0	0.00	1394.2					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 5.5	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 740.0	Mud 0.0	Spacer 80.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 4683	Final -194	Average 1109	Bump Plug to 2910	Breakdown	Type FreshWater	Volume 10.0 bbl		Density 8.34 lb/gal			
Avg. N2 Percent %		Designed Slurry Volume 740.0 bbl		Displacement 419.7 bbl		Mix Water Temp 72 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl	
								Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative John Truett				Schlumberger Supervisor Tylan Higley				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
								-		-	