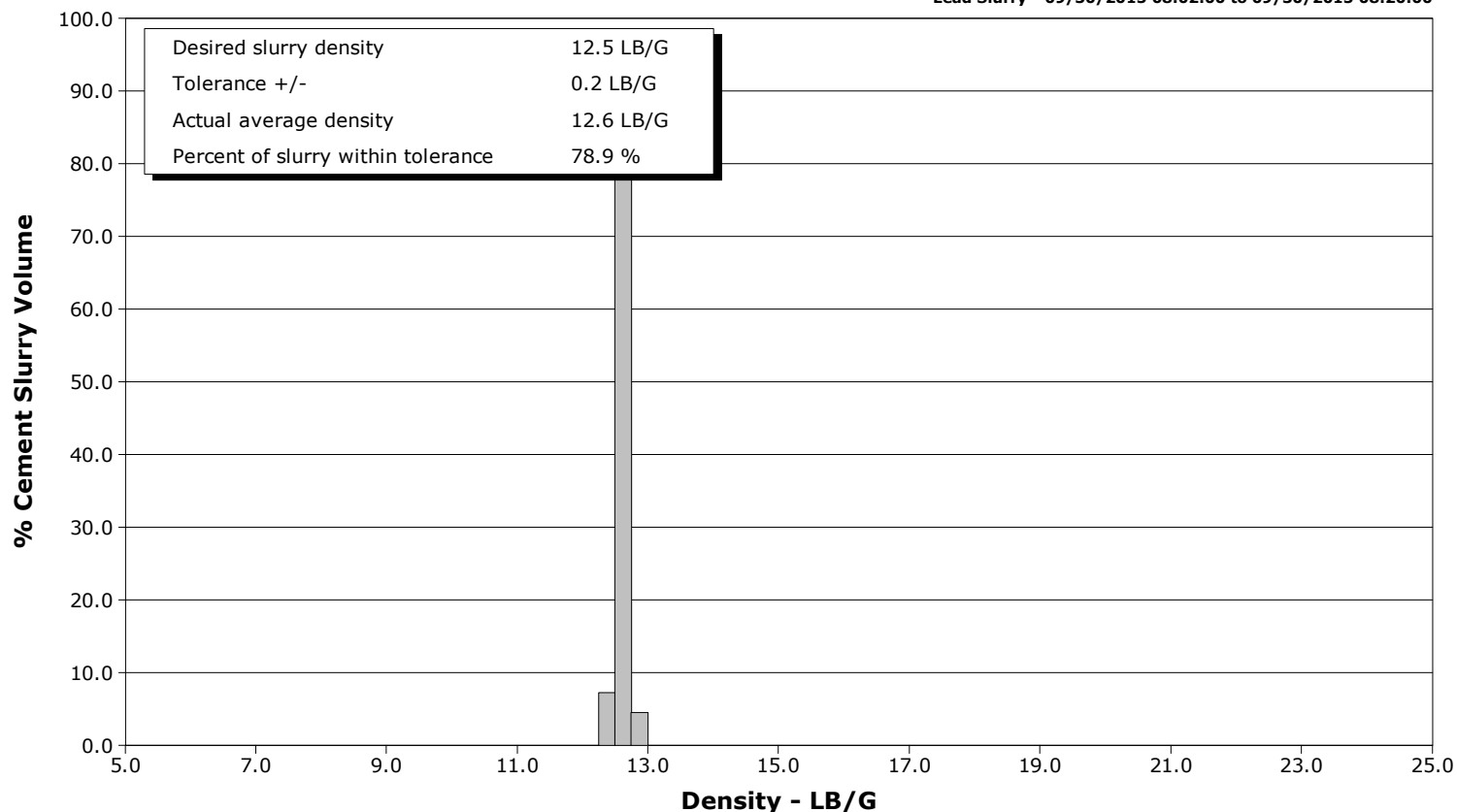


09/30/2015 11:02:24

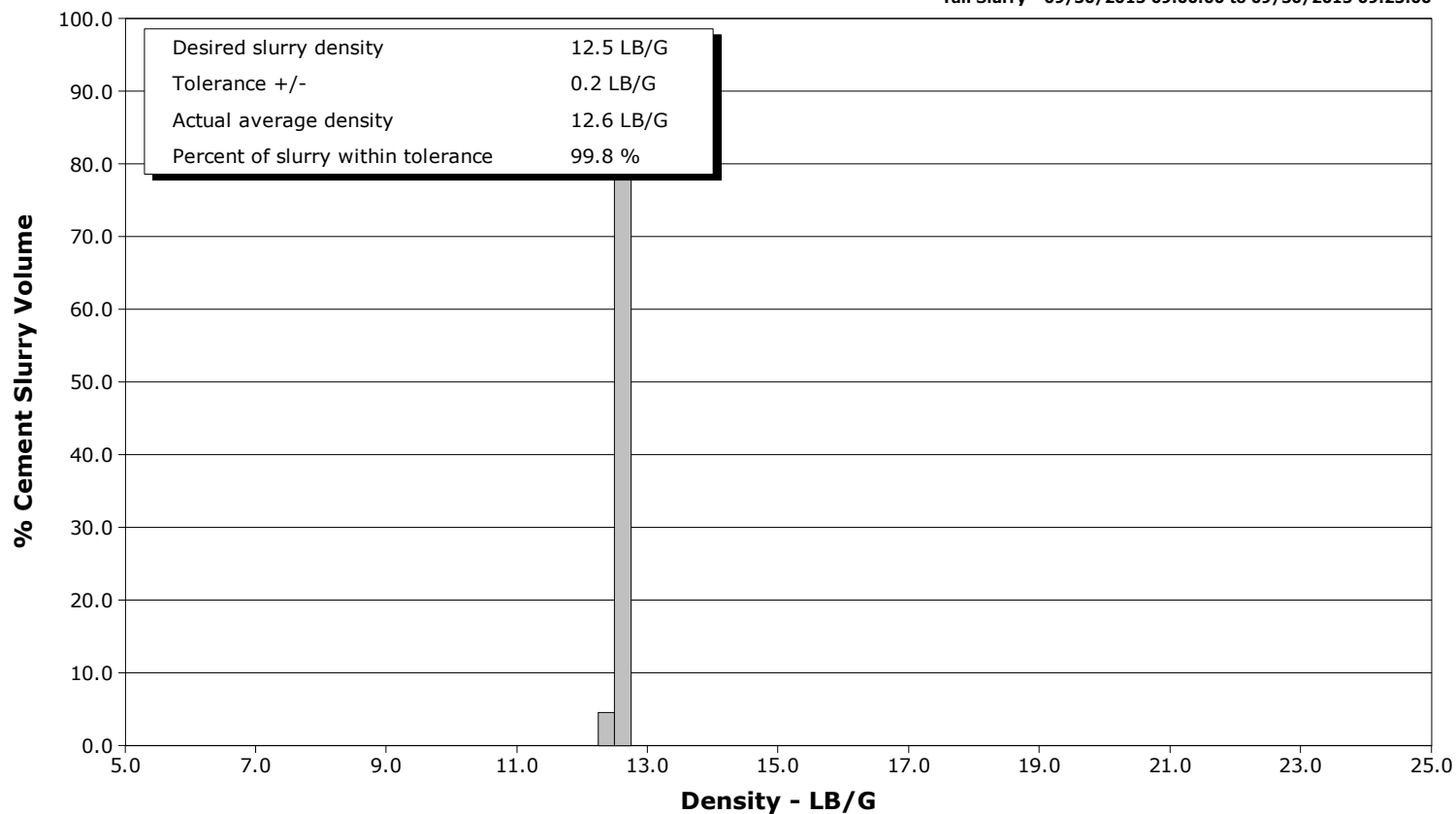
Well WAAG 21
Field Wattenberge
Engineer Jordan Moreland / Stacy Terry
Country United States

Client Extraction
SIR No. DAXH-00435
Job Type 5 1/2 Monobore
Job Date 09-30-2015

Lead Slurry - 09/30/2015 08:02:00 to 09/30/2015 08:20:00



Tail Slurry - 09/30/2015 09:00:00 to 09/30/2015 09:23:00



Cementing Service Report

				Customer Extraction				Job Number DAXH-00435							
Well WAAG 21			Location (legal)			Schlumberger Location			Job Start Sep/30/2015						
Field Wattenberge		Formation Name/Type			Deviation deg		Bit Size 7.9 in		Well MD ft		Well TVD ft				
County Weld		State/Province Colorado			BHP psi		BHST 206 degF		BHCT 206 degF		Pore Press. Gradient lb/gal				
Well Master 0631593033		API/UWI 05123403500000													
Rig Name Savanna 802		Drilled For Oil		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class New		Well Type Development		11870.0		5.5		20.0		P110	8RD		
						0.0		0.0		0.0					
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe									
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade	Thread
Service Line Cementing		Job Type 5 1/2 Monobore													
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft	
Service Instructions Rate And Density Checked 50 bbl MUDPUSH Express 1570 sks 12.5 Lead Displace 263 bbl Water						ft		ft							
						ft		ft						Diameter in	
						ft		ft							
		Treat Down Casing		Displacement 263.0 bbl		Packer Type		Packer Depth ft							
		Tubing Vol. bbl		Casing Vol. 263.0 bbl		Annular Vol. 381.0 bbl		Openhole Vol. 728.0 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 psi				Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 11870.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft					
Cement Head Type				Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Sep/30/2015		Arrived on Location Sep/30/2015		Leave Location Sep/30/2015		Collar Type Float				Tail Pipe Depth ft					
						Collar Depth 11863.0 ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
09/30/2015	07:39:19	104	0.0	8.34	2.4	Started Acquisition									
09/30/2015	07:39:20	56	0.0	8.34	2.4	1570 sks 12.5 Slurry									
09/30/2015	07:39:22	66	0.0	8.34	2.4	Start Job									
09/30/2015	07:39:25	69	0.0	8.34	2.4	Pressure Test Lines									
09/30/2015	07:39:26	64	0.0	8.34	2.4	Low Test 500 psi									
09/30/2015	07:39:28	67	0.0	8.34	2.4	Start Pumping Spacer									
09/30/2015	07:39:29	65	0.0	8.34	2.4	50 bbl MUDPUSH Express									
09/30/2015	07:41:19	73	0.0	8.34	2.4										
09/30/2015	07:43:19	356	4.6	11.28	4.8										
09/30/2015	07:45:19	289	4.6	10.83	14.1										
09/30/2015	07:47:19	247	4.6	10.62	23.4										
09/30/2015	07:49:19	242	4.6	10.63	32.6										
09/30/2015	07:51:19	195	4.6	11.06	41.9										
09/30/2015	07:52:23	185	4.7	11.03	46.9	End Spacer									
09/30/2015	07:53:19	162	4.7	10.88	51.3										
09/30/2015	07:55:19	198	4.4	13.05	60.5										
09/30/2015	07:57:19	159	4.6	12.13	69.6										
09/30/2015	07:59:19	187	4.7	12.19	78.7										
09/30/2015	08:01:19	193	4.6	12.61	88.0										
09/30/2015	08:01:21	207	4.6	12.61	88.1	Start Cement Slurry									
09/30/2015	08:01:23	199	4.6	12.61	88.3	Wet Dry Samples									

Well			Field	Job Start		Customer		Job Number	
WAAG 21			Wattenberge		Sep/30/2015		Extraction		DAXH-00435
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/30/2015	08:03:19	207	4.6	12.69	97.2				
09/30/2015	08:05:19	373	6.6	12.84	107.9				
09/30/2015	08:07:19	344	6.6	12.69	121.1				
09/30/2015	08:09:19	330	6.6	12.47	134.2				
09/30/2015	08:11:19	340	6.6	12.56	147.5				
09/30/2015	08:13:19	365	6.5	12.74	160.7				
09/30/2015	08:15:19	350	6.6	12.64	173.8				
09/30/2015	08:17:19	351	6.6	12.63	186.9				
09/30/2015	08:19:19	351	6.6	12.62	200.2				
09/30/2015	08:20:00	350	6.5	12.57	204.7	End Lead Slurry			
09/30/2015	08:21:19	111	3.4	12.03	210.1				
09/30/2015	08:23:19	1	0.0	11.82	215.3				
09/30/2015	08:25:19	-1	0.1	11.49	215.7				
09/30/2015	08:27:19	33	1.6	11.54	217.1				
09/30/2015	08:29:19	24	1.1	14.27	221.1				
09/30/2015	08:31:19	189	4.6	12.27	226.7				
09/30/2015	08:33:19	225	4.6	12.78	235.8				
09/30/2015	08:35:19	323	6.4	12.28	247.6				
09/30/2015	08:37:19	350	6.4	12.48	260.2				
09/30/2015	08:39:19	320	6.3	12.57	272.9				
09/30/2015	08:41:19	340	6.6	12.43	285.7				
09/30/2015	08:43:19	189	4.6	12.39	297.6				
09/30/2015	08:45:19	88	2.7	12.42	305.5				
09/30/2015	08:47:19	2	0.0	12.08	310.4				
09/30/2015	08:49:19	3	0.0	11.82	310.4				
09/30/2015	08:51:19	4	0.0	11.83	310.4				
09/30/2015	08:53:19	90	2.9	11.93	311.9				
09/30/2015	08:55:19	188	4.2	12.27	318.6				
09/30/2015	08:57:19	166	4.2	11.99	327.1				
09/30/2015	08:59:19	76	2.4	12.27	332.8				
09/30/2015	09:00:00	186	4.2	12.50	335.1	Start Mixing Tail Slurry			
09/30/2015	09:01:19	207	4.2	12.59	340.7				
09/30/2015	09:03:19	289	5.6	12.53	351.2				
09/30/2015	09:05:19	326	5.6	12.60	362.3				
09/30/2015	09:07:19	339	5.6	12.61	373.4				
09/30/2015	09:09:19	312	5.5	12.60	384.6				
09/30/2015	09:11:19	264	5.1	12.62	395.5				
09/30/2015	09:13:19	198	4.2	12.54	404.2				
09/30/2015	09:15:19	193	4.2	12.52	412.6				
09/30/2015	09:17:19	208	4.2	12.60	421.0				
09/30/2015	09:19:19	200	4.2	12.64	429.4				
09/30/2015	09:21:19	203	4.2	12.58	437.8				
09/30/2015	09:23:00	94	2.3	12.58	444.6	End Tail Slurry			
09/30/2015	09:23:19	89	2.3	12.59	445.3				
09/30/2015	09:24:00	87	2.3	12.53	447.0	End Cement Slurry			
09/30/2015	09:25:19	85	2.4	12.36	450.1				
09/30/2015	09:27:19	61	2.3	11.51	454.9				
09/30/2015	09:29:19	4	1.3	12.73	460.3				
09/30/2015	09:30:00	5	0.0	11.74	460.8	Wash up To Pit			
09/30/2015	09:31:19	6	0.1	11.48	460.9				
09/30/2015	09:33:19	11	0.0	11.28	461.0				
09/30/2015	09:35:19	110	3.5	8.46	465.3				
09/30/2015	09:37:19	79	3.2	9.10	472.2				
09/30/2015	09:39:19	74	2.9	9.19	479.2				

Well			Field	Job Start		Customer	Job Number
WAAG 21			Wattenberge	Sep/30/2015		Extraction	DAXH-00435
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/30/2015	09:42:00	17	0.1	8.32	492.8	Drop Top Plug	
09/30/2015	09:43:19	71	4.3	8.33	495.1		
09/30/2015	09:45:19	175	6.8	8.34	508.1		
09/30/2015	09:47:19	174	6.8	8.34	521.6		
09/30/2015	09:49:19	175	6.8	8.34	535.2		
09/30/2015	09:51:19	173	6.8	8.34	548.8		
09/30/2015	09:53:19	435	6.7	8.34	562.3		
09/30/2015	09:53:40	459	6.7	8.34	564.6	263 bbl Fresh Water	
09/30/2015	09:55:19	596	6.7	8.34	575.7		
09/30/2015	09:57:19	818	6.7	8.34	589.1		
09/30/2015	09:59:19	969	6.7	8.34	602.5		
09/30/2015	10:01:19	1202	6.7	8.34	615.9		
09/30/2015	10:03:19	1350	6.7	8.34	629.2		
09/30/2015	10:05:19	1594	6.6	8.33	642.5		
09/30/2015	10:07:19	1743	6.6	8.33	655.8		
09/30/2015	10:09:19	1895	6.6	8.33	669.0		
09/30/2015	10:11:19	2015	6.6	8.33	682.3		
09/30/2015	10:13:19	2027	6.6	8.33	695.5		
09/30/2015	10:15:19	1787	4.4	8.33	706.5		
09/30/2015	10:17:19	1838	4.4	8.33	715.4		
09/30/2015	10:19:19	1913	4.4	8.33	724.3		
09/30/2015	10:21:19	1875	4.4	8.33	733.2		
09/30/2015	10:23:19	1981	4.4	8.33	742.0		
09/30/2015	10:25:19	1979	4.4	8.33	750.9		
09/30/2015	10:27:19	1981	4.4	8.33	759.8		
09/30/2015	10:29:19	1988	4.4	8.33	768.6		
09/30/2015	10:31:19	1926	4.4	8.33	777.5		
09/30/2015	10:33:19	1512	0.0	8.33	785.7		
09/30/2015	10:35:19	1545	0.0	8.33	785.7		
09/30/2015	10:37:19	1560	0.0	8.33	785.8		
09/30/2015	10:39:19	1734	2.0	8.33	788.2		
09/30/2015	10:41:19	1552	0.0	8.33	788.8		
09/30/2015	10:42:47	8	0.0	8.33	788.8	End Displacement	
09/30/2015	10:42:49	8	0.0	8.33	788.8	Plug Did Not Bump	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.6	N2	Mud	Maximum Rate 16.5	Total Slurry 786.4	Mud 0.0	Spacer 44.6	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2119	Final 9	Average 572	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 224.3 bbl	Mix Water Temp 62 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland / Stacy Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	