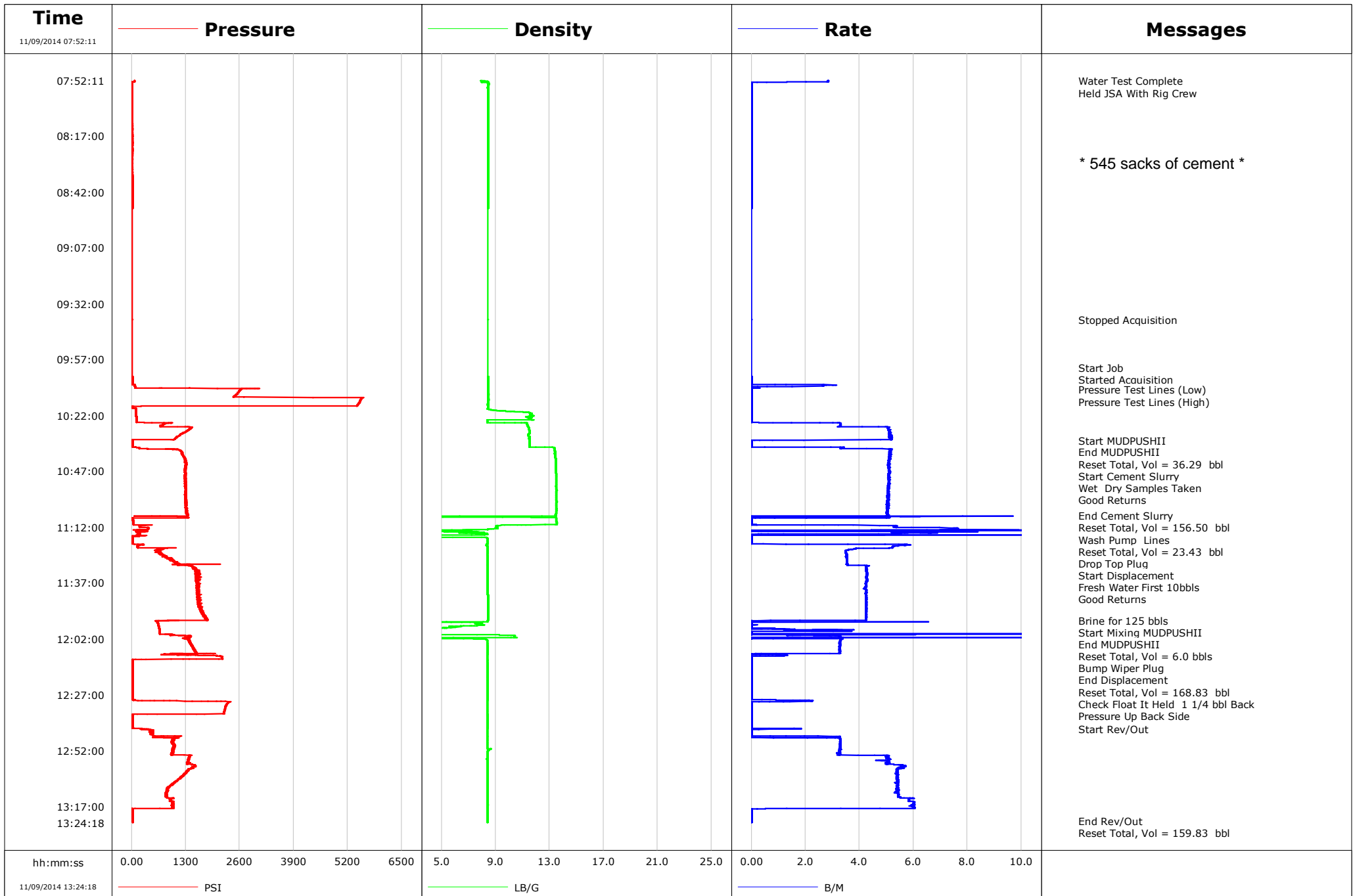


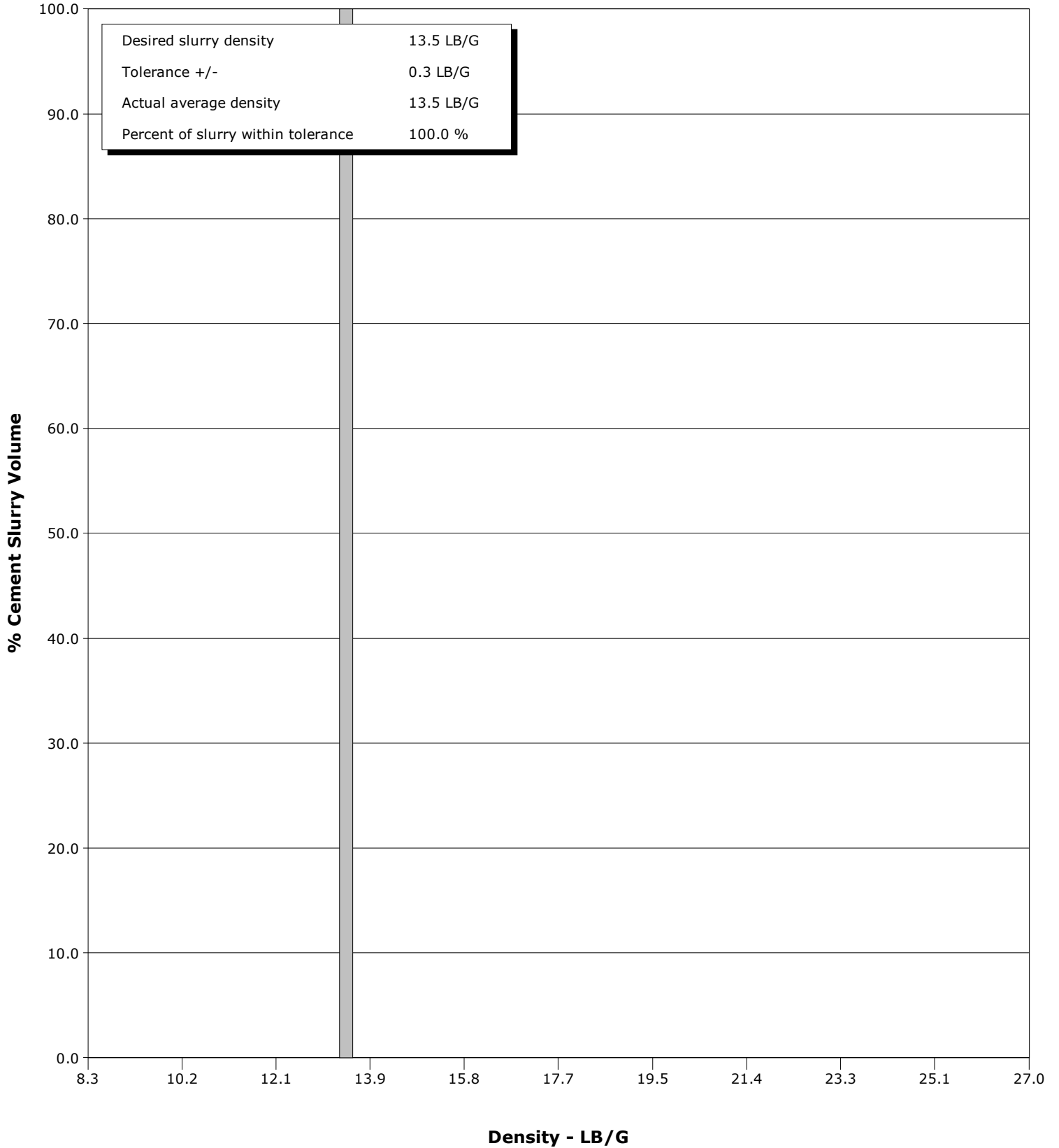
Well	Horsetail 30F-1941	Client	Whiting
Field	Wildcat	SIR No.	D4RN-00134
Engineer	Wayne Silvester/Paul Kroeger	Job Type	Liner
Country	United States	Job Date	11-09-2014



Well Horsetail 30F-1941
Field Wildcat
Engineer Wayne Silvester/Paul Kroeger
Country United States

Client Whiting
SIR No. D4RN-00134
Job Type Liner
Job Date 11-09-2014

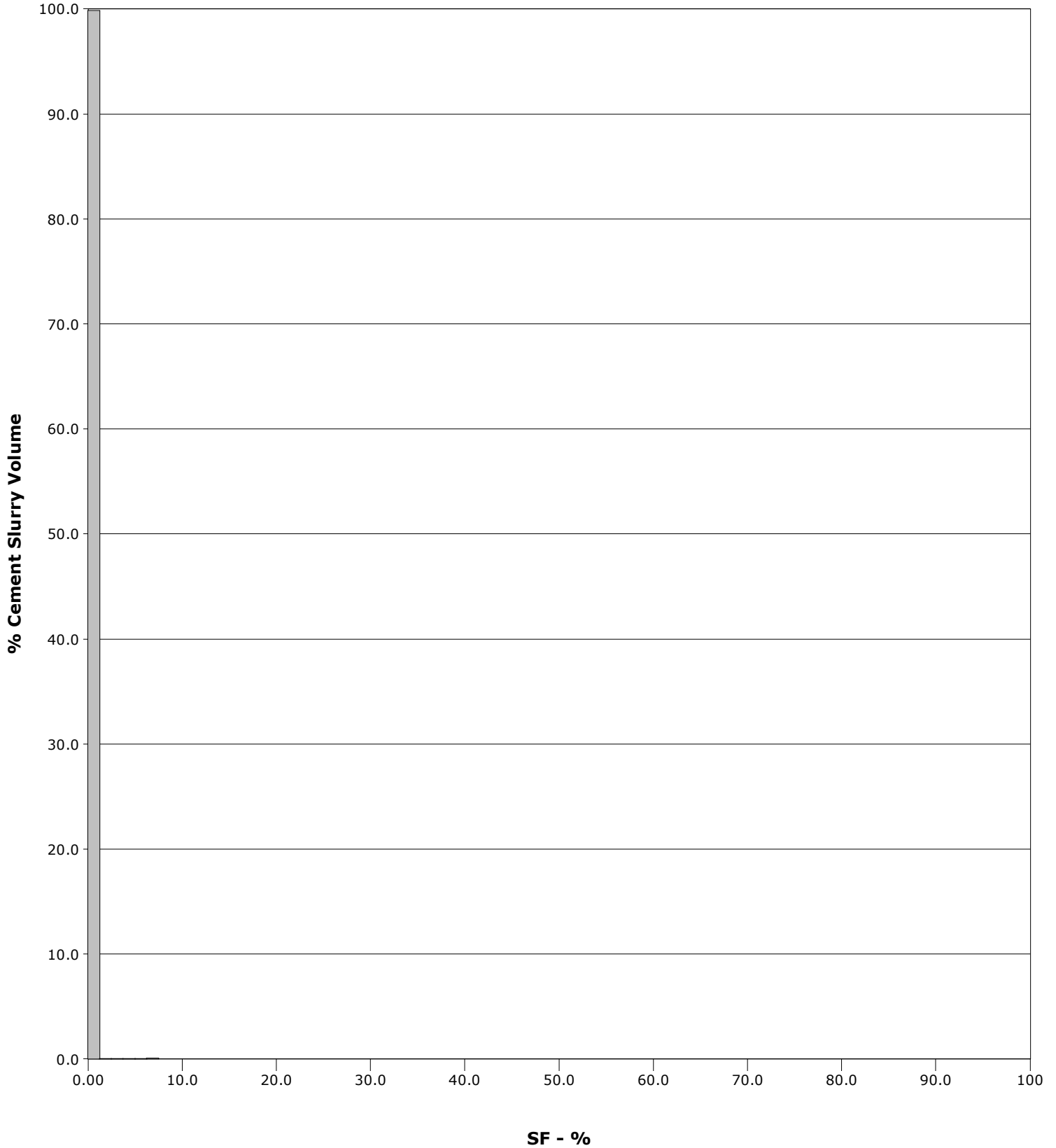
Cement Slurry - 11/09/2014 10:37:44 to 11/09/2014 11:07:00



Well Horsetail 30F-1941
Field Wildcat
Engineer Wayne Silvester/Paul Kroeger
Country United States

Client Whiting
SIR No. D4RN-00134
Job Type Liner
Job Date 11-09-2014

Cement Slurry - 11/09/2014 10:37:44 to 11/09/2014 11:07:00



				Customer			Job Number				
				Whiting			D4RN-00134				
Well		Location (legal)			Schlumberger Location			Job Start			
Horsetail 30F-1941 30F-1941		SENW Sec 30 10N 57W			Cheyenne			Nov/09/2014			
Field		Formation Name/Type			Deviation	Bit Size	Well MD		Well TVD		
Wildcat					deg	6.0 in	13884.7 ft		13928.0 ft		
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient			
Weld		Colorado			3203 psi	200 degF	200 degF	lb/gal			
Well Master		API/UWI									
631523939		5123387420000									
Rig Name		Drilled For		Service Via	Casing/Liner						
Xtreme 18		Oil & Gas		Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone		Well Class		Well Type	13928	4.5	11.6	P110	BUTT		
		New		Other	0.0	0.0	0.0				
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe						
		lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
					D	5204.0	4.0	28.0	N/A	N/A	
					0.0	0.0	0.0				
Service Line		Job Type			Perforations/Open Hole						
Cementing		Liner			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval		
					ft	ft			ft		
					ft	ft			Diameter		
					ft	ft			in		
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection	Treat Down	Displacement	Packer Type	Packer Depth			
psi		psi		4 1/2" XH DP pin	Drill Pipe	169.0 bbl		ft			
Service Instructions		Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.						
1.MI (Move in) Schlumberger equipment. 2.Conduct Rig-up, Prime-up and pressure test safety meeting. 3.RU (Rig up) Schlumberger equipment and pressure test to master valve. 4.Conduct pre-job safety meeting. 5.Contact Line Management with any changes to design. 6.Hand calculate all volumes using onsite ID of Drill Pipe. Please note the possible use of Heavy Weight Drill Pipe. Verify all calculated volumes with company representative as well as liner tool hand. Must slow down 2 BPM 5 bbls before dart picks up plug at liner hanger, as well as 10 bbls before bumping plug. 7.Pressure Test Lines to 5,000 psi.		bbl	169.6 bbl	151.0 bbl	122.0 bbl						
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement	Casing Tools							Squeeze Job	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									
Lift Pressure		Shoe Type			Shoe Depth			Squeeze Type			
1570 psi		Float			13928.0 ft						
Pipe Rotated		Pipe Reciprocated			Stage Tool Type			Tool Depth			
<input type="checkbox"/>		<input type="checkbox"/>						ft			
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Depth			Tail Pipe Size				
		1		ft			in				
Cement Head Type		Collar Type			Collar Depth			Tail Pipe Depth			
		Float			13884.0 ft			ft			
Job Scheduled For		Arrived on Location		Leave Location	Sqz. Total Vol.						
Nov/09/2014		Nov/09/2014		Nov/09/2014	bbl						
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Casing Test PSI	Message				
11/09/2014	07:52:11	63	2.8	7.97	0.0	-1	Started Acquisition				
11/09/2014	07:52:19	63	2.8	7.98	0.4	-1	Water Test Complete				
11/09/2014	07:57:12	8	0.0	8.46	1.9	-1					
11/09/2014	08:02:13	11	0.0	8.46	1.9	-1					
11/09/2014	08:07:14	11	0.0	8.45	1.9	-1					
11/09/2014	08:12:15	11	0.0	8.45	1.9	-1					
11/09/2014	08:17:16	12	0.0	8.45	1.9	-1					
11/09/2014	08:22:17	11	0.0	8.45	1.9	-1					
11/09/2014	08:27:18	11	0.0	8.45	1.9	-1					
11/09/2014	08:32:19	11	0.0	8.45	1.9	-1					
11/09/2014	08:37:20	12	0.0	8.45	1.9	-1					
11/09/2014	08:42:21	13	0.0	8.45	1.9	-1					
11/09/2014	08:47:22	13	0.0	8.45	1.9	-1					
11/09/2014	10:07:38	13	0.0	8.46	1.9	-1					
11/09/2014	10:10:25	2624	0.0	8.46	4.0	-1	Pressure Test Lines (Low)				
11/09/2014	10:12:39	2526	0.0	8.46	4.0	-1					
11/09/2014	10:14:38	5522	0.0	8.46	4.0	-1	Pressure Test Lines (High)				
11/09/2014	10:17:40	5426	0.0	8.45	4.0	-1					
11/09/2014	10:22:41	109	0.0	11.29	4.0	-1					
11/09/2014	10:27:42	1430	5.1	11.46	12.9	-1					
11/09/2014	10:32:43	1035	5.2	11.49	38.6	-1					

Well			Field		Job Start	Customer		Job Number
Horsetail 30F-1941 30F-1941			Wildcat		Nov/09/2014	Whiting		D4RN-00134
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Casing Test PSI	Message	
11/09/2014	10:33:15	15	0.0	11.49	40.3	-1	End MUDPUSHII	
11/09/2014	10:33:17	15	0.0	11.49	40.3	-1	Reset Total, Vol = 36.29 bbl	
11/09/2014	10:37:44	1170	5.1	13.36	46.8	-1	Start Cement Slurry	
11/09/2014	10:42:17	1282	5.1	13.47	70.1	-1	Wet Dry Samples Taken	
11/09/2014	10:42:43	1306	5.1	13.45	72.3	-1	Good Returns	
11/09/2014	10:42:45	1302	5.1	13.45	72.4	-1		
11/09/2014	10:47:46	1285	5.1	13.47	98.0	-1		
11/09/2014	10:52:47	1297	5.1	13.48	123.5	-1		
11/09/2014	10:57:48	1311	5.1	13.50	148.9	-1		
11/09/2014	11:02:49	1316	5.0	13.50	174.2	-1		
11/09/2014	11:07:00	1332	5.0	13.46	195.3	-1	End Cement Slurry	
11/09/2014	11:07:32	1275	0.0	3.86	196.8	-1	Reset Total, Vol = 156.50 bbl	
11/09/2014	11:07:50	1362	5.1	13.47	197.9	-1		
11/09/2014	11:11:18	253	5.2	9.16	199.3	-1	Wash Pump Lines	
11/09/2014	11:12:51	398	7.6	8.71	208.8	-1		
11/09/2014	11:16:21	3	0.0	0.01	221.9	-1	Reset Total, Vol = 23.43 bbl	
11/09/2014	11:17:52	24	0.0	8.39	221.9	-1		
11/09/2014	11:19:36	22	0.0	8.39	221.9	-1	Drop Top Plug	
11/09/2014	11:19:39	27	0.4	8.39	221.9	-1	Start Displacement	
11/09/2014	11:19:40	45	0.4	8.39	222.0	-1	Fresh Water First 10bbls	
11/09/2014	11:22:53	620	3.5	8.39	236.5	-1		
11/09/2014	11:27:54	1041	3.5	8.40	254.2	-1		
11/09/2014	11:32:55	1646	4.3	8.41	274.7	-1		
11/09/2014	11:37:56	1578	4.2	8.41	296.0	-1		
11/09/2014	11:41:39	1627	4.2	8.41	311.8	-1	Good Returns	
11/09/2014	11:42:57	1636	4.2	8.43	317.3	-1		
11/09/2014	11:47:58	1634	4.2	8.43	338.6	-1		
11/09/2014	11:52:59	1789	4.2	8.43	359.9	-1		
11/09/2014	11:53:51	1146	1.8	8.43	363.4	-1	Brine for 125 bbls	
11/09/2014	11:54:26	618	0.0	5.36	363.5	-1	Start Mixing MUDPUSHII	
11/09/2014	11:58:00	663	2.2	1.93	364.4	-1		
11/09/2014	12:01:31	1365	2.9	10.13	373.8	-1	End MUDPUSHII	
11/09/2014	12:01:59	1385	0.0	0.01	374.3	-1	Reset Total, Vol = 6.0 bbls	
11/09/2014	12:03:01	1373	3.3	8.38	377.5	-1		
11/09/2014	12:08:02	1554	3.3	8.39	393.9	-1		
11/09/2014	12:10:00	2176	0.0	8.39	396.8	-1	Bump Wiper Plug	
11/09/2014	12:10:05	2180	0.0	8.39	396.8	-1	End Displacement	
11/09/2014	12:10:27	2170	0.0	8.39	396.8	-1	Reset Total, Vol = 168.83 bbl	
11/09/2014	12:11:52	22	0.0	8.39	396.8	-1	Check Float It Held 1 1/4 bbl Back	
11/09/2014	12:13:03	23	0.0	8.39	396.8	-1		
11/09/2014	12:18:04	23	0.0	8.39	396.8	-1		
11/09/2014	12:23:05	21	0.0	8.39	396.8	-1		
11/09/2014	12:28:06	23	0.0	8.39	396.8	-1		
11/09/2014	12:30:22	2342	0.0	8.38	398.3	-1	Pressure Up Back Side	
11/09/2014	12:33:07	2246	0.0	8.39	398.3	-1		
11/09/2014	12:38:08	25	0.0	8.39	398.3	-1		
11/09/2014	12:42:06	23	0.0	8.39	398.3	-1	Start Rev/Out	
11/09/2014	12:43:09	479	0.0	8.39	398.7	-1		
11/09/2014	12:48:10	959	3.3	8.38	406.6	-1		
11/09/2014	12:53:11	984	3.3	8.39	423.0	-1		
11/09/2014	12:58:12	1341	5.1	8.39	446.6	-1		
11/09/2014	13:03:13	1257	5.4	8.39	474.0	-1		
11/09/2014	13:08:14	879	5.4	8.39	501.1	-1		
11/09/2014	13:13:15	881	5.5	8.39	528.3	-1		

Well Horsetail 30F-1941 30F-1941			Field Wildcat		Job Start Nov/09/2014	Customer Whiting		Job Number D4RN-00134
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Casing Test PSI	Message	
11/09/2014	13:23:17	32	0.0	8.39	556.6	-1		
11/09/2014	13:23:32	31	0.0	8.39	556.6	-1	End Rev/Out	
11/09/2014	13:23:48	32	0.0	8.39	556.6	-1	Reset Total, Vol = 159.83 bbl	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.5	N2	Mud	Maximum Rate 25.0		Total Slurry 156.6	Mud 0.0	Spacer 42.8	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5588	Final 32	Average 662	Bump Plug to 2170	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 154.0 bbl		Displacement 168.8 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 15.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative			Schlumberger Supervisor Wayne Silvester/Paul Kroeger			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
					-		-	