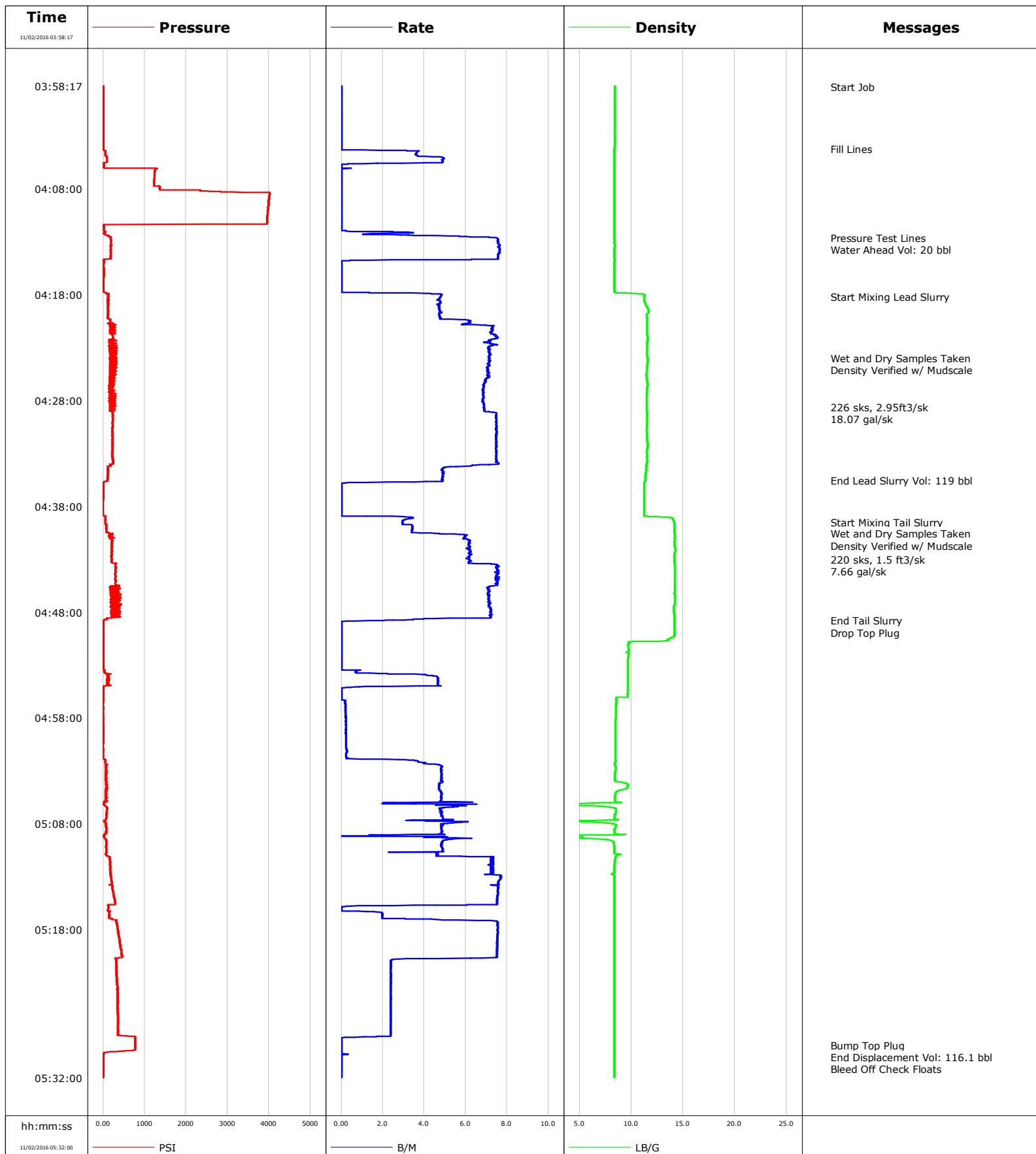


Well Thornton L-29-30HN
Field Wattenberg
Engineer Billy Barg
Country United States

Client BAYSWATER EXPLORATION PRODUC
SIR No. D5VO-01730
Job Type Surface
Job Date 11-01-2016



Cementing Service Report

				Customer BAYSWATER EXPLORATION & PRODUC				Job Number D5VO-01730									
Well Thornton L-29-30HN			Location (legal)			Schlumberger Location Cheyenne, WY			Job Start Nov/01/2016								
Field Wattenberg		Formation Name/Type			Deviation deg		Bit Size 13.5 in		Well MD 1560.0 ft		Well TVD 1560.0 ft						
County WELD		State/Province Colorado			BHP psi		BHST 107 degF		BHCT 85 degF		Pore Press. Gradient lb/gal						
Well Master 0631691793		API/UWI 05123435920000															
Rig Name Extreme 22		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		1548.0		9.6		36.0		J-55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type WBM		Max. Density 8.80 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type Surface															
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 9 5/8" 8rd		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
Service Instructions Cement 9 5/8" surface casing at 1,548 ft 13 1/2" hole, 25% Excess Top of 11.5 ppg Lead: Surface EstTop of 14.2 ppg Tail (220 sks): 870 ft						ft		ft						Diameter in			
						ft		ft									
						ft		ft									
		Treat Down Casing		Displacement 116.1 bbl		Packer Type		Packer Depth ft									
		Tubing Vol. bbl		Casing Vol. 119.7 bbl		Annular Vol. 134.7 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 766 psi						Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1548.0 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft							
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in							
Job Scheduled For Nov/01/2016 23:00		Arrived on Location Nov/01/2016 23:00		Leave Location Nov/02/2016 06:30		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 1502.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message											
11/02/2016	03:58:17	8	0.0	8.40	0.0												
11/02/2016	03:58:25	8	0.0	8.40	0.0	Start Job											
11/02/2016	03:59:57	9	0.0	8.40	0.0												
11/02/2016	04:01:37	8	0.0	8.40	0.0												
11/02/2016	04:03:17	2	0.0	8.40	0.0												
11/02/2016	04:04:14	2	0.0	8.40	0.0	Fill Lines											
11/02/2016	04:04:57	87	3.7	8.39	2.1												
11/02/2016	04:06:37	1238	0.0	8.39	5.3												
11/02/2016	04:08:17	2846	0.0	8.39	5.3												
11/02/2016	04:09:57	3974	0.0	8.39	5.3												
11/02/2016	04:11:37	15	0.0	8.39	5.3												
11/02/2016	04:12:40	186	7.5	8.39	7.8	Pressure Test Lines											
11/02/2016	04:12:55	185	7.6	8.39	9.6	Water Ahead Vol: 20 bbl											
11/02/2016	04:13:17	181	7.6	8.41	12.4												
11/02/2016	04:14:57	18	0.0	8.39	23.4												
11/02/2016	04:16:37	5	0.0	8.39	23.4												
11/02/2016	04:18:15	120	4.8	11.25	25.3	Start Mixing Lead Slurry											
11/02/2016	04:18:17	130	4.8	11.25	25.4												
11/02/2016	04:19:57	109	4.7	11.47	33.3												
11/02/2016	04:21:37	164	7.2	11.55	43.8												
11/02/2016	04:23:17	168	7.1	11.54	55.9												

Well Thornton L-29-30HN			Field Wattenberg		Job Start Nov/01/2016	Customer BAYSWATER EXPLORATION & PRODUC	Job Number D5VO-01730
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/02/2016	04:24:12	182	7.1	11.57	62.5	Density Verified w/ Mudscales	
11/02/2016	04:24:57	193	7.0	11.52	67.8		
11/02/2016	04:26:37	143	6.9	11.56	79.5		
11/02/2016	04:28:17	181	6.9	11.50	90.9		
11/02/2016	04:28:39	166	6.9	11.50	93.4	226 sks, 2.95ft3/sk	
11/02/2016	04:29:17	238	7.5	11.53	97.9	18.07 gal/sk	
11/02/2016	04:29:57	228	7.5	11.53	102.9		
11/02/2016	04:31:37	236	7.5	11.52	115.3		
11/02/2016	04:33:17	212	7.5	11.53	127.8		
11/02/2016	04:34:57	113	4.9	11.38	138.3		
11/02/2016	04:35:34	108	4.9	11.36	141.3	End Lead Slurry Vol: 119 bbl	
11/02/2016	04:36:37	5	0.0	11.23	142.1		
11/02/2016	04:38:17	-2	0.0	11.23	142.1		
11/02/2016	04:39:29	54	3.0	14.12	143.8	Start Mixing Tail Slurry	
11/02/2016	04:39:57	81	3.4	14.17	145.3		
11/02/2016	04:40:34	142	4.5	14.18	147.4	Wet and Dry Samples Taken	
11/02/2016	04:40:46	232	5.9	14.19	148.5	Density Verified w/ Mudscales	
11/02/2016	04:41:37	204	6.1	14.19	153.7		
11/02/2016	04:43:02	201	6.2	14.15	162.4	220 sks, 1.5 ft3/sk	
11/02/2016	04:43:15	197	6.2	14.18	163.8	7.66 gal/sk	
11/02/2016	04:43:17	206	6.1	14.18	164.0		
11/02/2016	04:44:57	298	7.6	14.21	176.3		
11/02/2016	04:46:37	214	7.1	14.22	188.4		
11/02/2016	04:48:17	388	7.3	14.15	200.3		
11/02/2016	04:48:50	-3	1.4	14.15	203.3	End Tail Slurry	
11/02/2016	04:49:06	7	0.0	14.15	203.4	Drop Top Plug	
11/02/2016	04:49:57	7	0.0	14.16	203.4		
11/02/2016	04:51:37	7	0.0	9.75	203.4		
11/02/2016	04:53:17	7	0.0	9.65	203.4		
11/02/2016	04:54:57	200	4.7	9.65	208.7		
11/02/2016	04:56:37	-0	0.2	8.55	209.1		
11/02/2016	04:58:17	1	0.2	8.49	209.5		
11/02/2016	04:59:57	7	0.2	8.47	209.8		
11/02/2016	05:01:37	-0	0.2	8.46	210.2		
11/02/2016	05:03:17	65	4.8	8.43	216.4		
11/02/2016	05:04:57	80	4.8	8.66	224.4		
11/02/2016	05:06:37	94	4.8	8.49	232.3		
11/02/2016	05:08:17	70	4.9	8.52	240.5		
11/02/2016	05:09:57	77	4.8	8.34	248.2		
11/02/2016	05:11:37	169	7.3	8.41	257.5		
11/02/2016	05:13:17	192	7.7	8.39	269.8		
11/02/2016	05:14:57	268	7.5	8.39	282.4		
11/02/2016	05:16:37	145	2.0	8.39	288.7		
11/02/2016	05:18:17	367	7.6	8.39	298.8		
11/02/2016	05:19:57	443	7.5	8.39	311.4		
11/02/2016	05:21:37	321	2.4	8.39	319.3		
11/02/2016	05:23:17	339	2.4	8.39	323.3		
11/02/2016	05:24:57	356	2.4	8.39	327.3		
11/02/2016	05:26:37	365	2.4	8.39	331.3		
11/02/2016	05:28:17	773	0.0	8.39	334.9		
11/02/2016	05:28:56	772	0.0	8.39	334.9	Bump Top Plug	
11/02/2016	05:29:18	772	0.0	8.39	334.9	End Displacement Vol: 116.1 bbl	
11/02/2016	05:29:30	497	0.0	8.39	334.9	Bleed Off Check Floats	
11/02/2016	05:29:57	12	0.0	8.39	335.0		

Well Thornton L-29-30HN	Field Wattenberg	Job Start Nov/01/2016	Customer BAYSWATER EXPLORATION & PRODUC	Job Number D5VO-01730
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.1	N2	Mud	Maximum Rate 7.7		Total Slurry 178.0	Mud 0.0	Spacer 0.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 4029	Final 11	Average 316	Bump Plug to 800	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 178.0 bbl		Displacement 116.1 bbl		Mix Water Temp 60 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 30.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Red Benge				Schlumberger Supervisor Billy Barg				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-