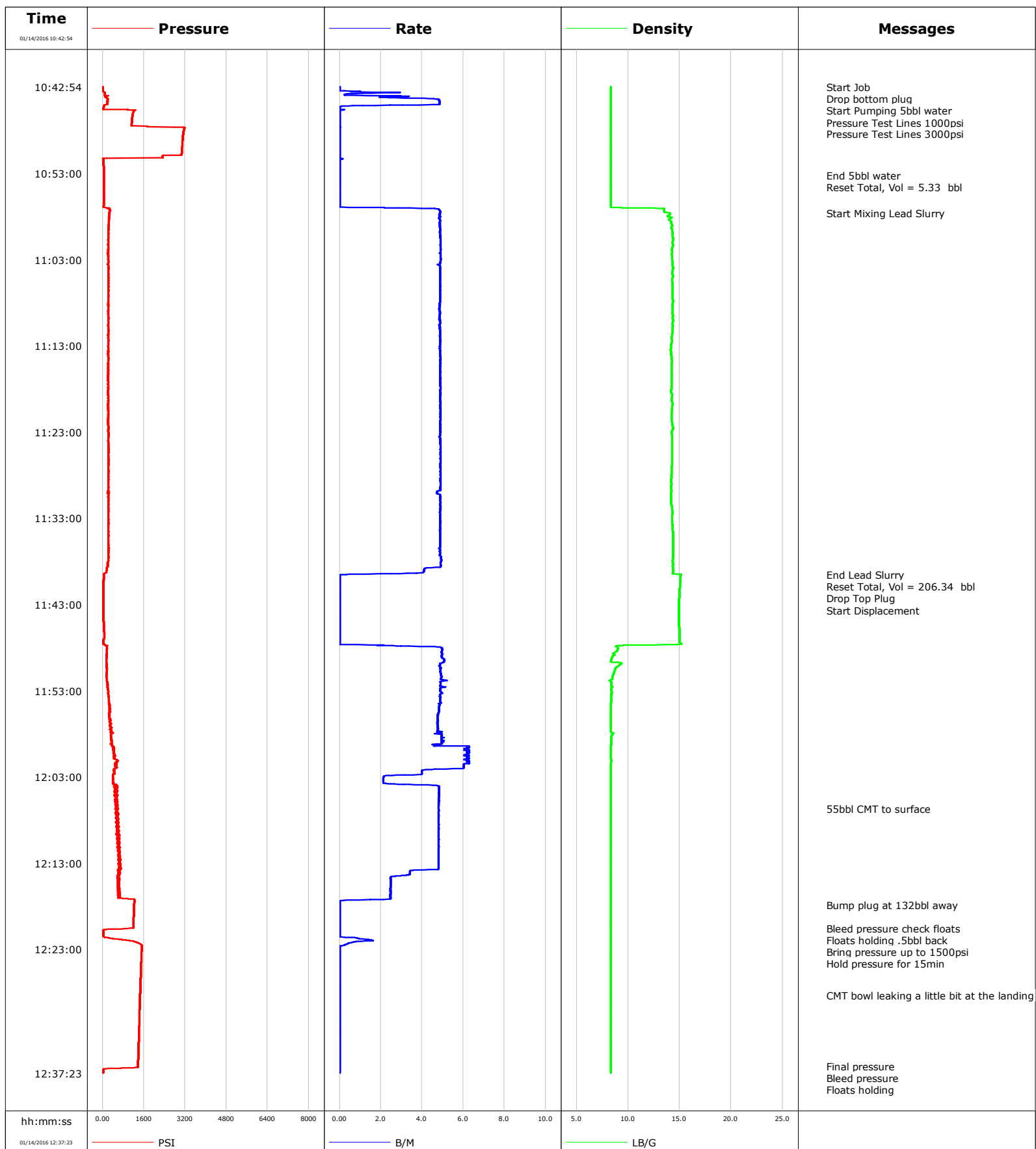


**Well** Pronghorn  
**Field** DJ  
**Engineer** Chris Valerio/Ken Sovereign  
**Country** United States

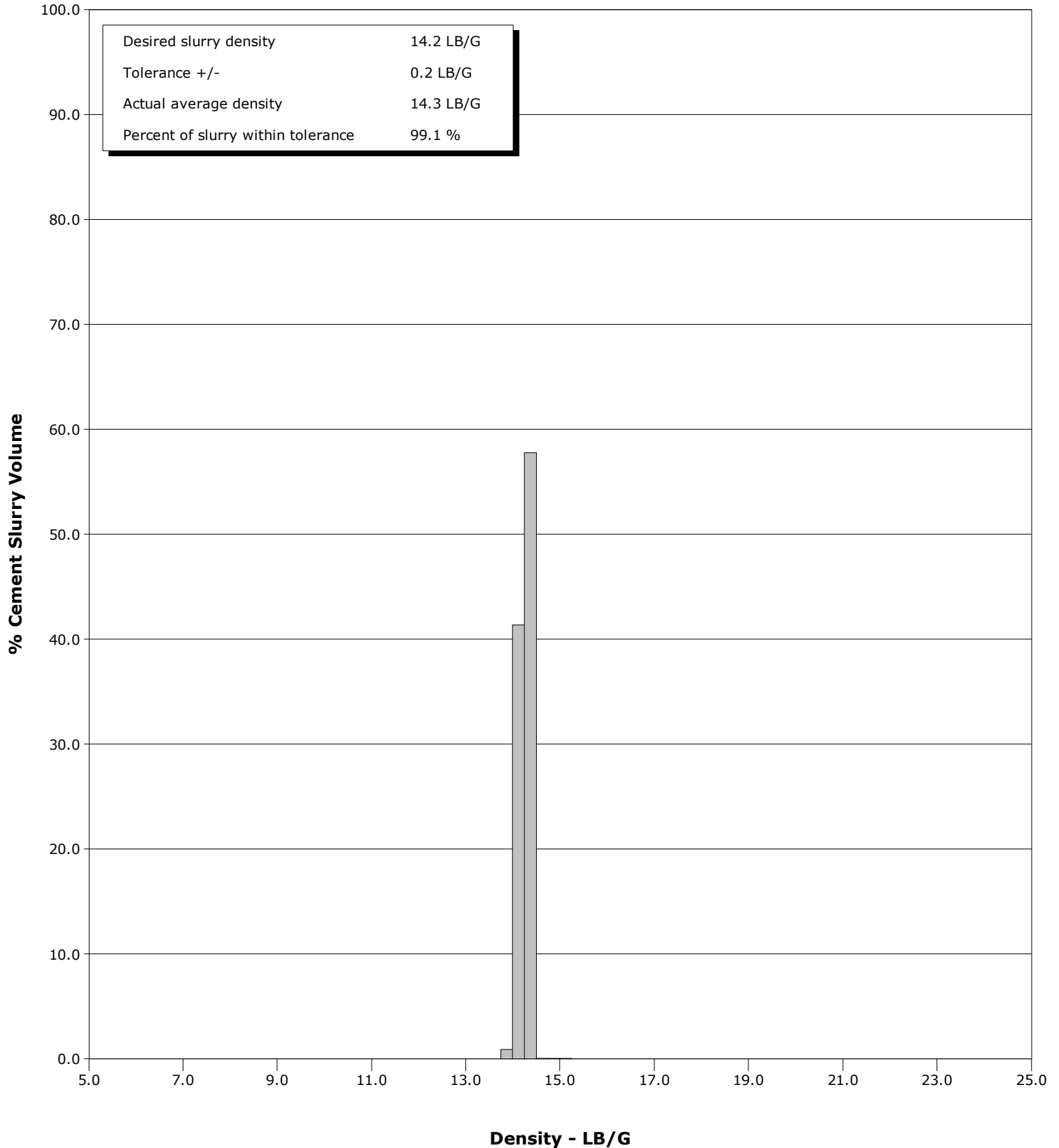
**Client** Bonanza Creek  
**SIR No.** DAXH-00605  
**Job Type** Surface  
**Job Date** 01-14-2016



**Well** Pronghorn  
**Field** DJ  
**Engineer** Chris Valerio/Ken Sovereign  
**Country** United States

**Client** Bonanza Creek  
**SIR No.** DAXH-00605  
**Job Type** Surface  
**Job Date** 01-14-2016

Cement Slurry - 01/14/2016 10:57:34 to 01/14/2016 11:39:32



# Cementing Service Report

				Customer Bonanza Creek				Job Number DAXH-00605			
Well Pronghorn A-E-22HNB			Location (legal)			Schlumberger Location			Job Start Jan/14/2016		
Field DJ		Formation Name/Type Shale		Deviation deg		Bit Size 13.5 in		Well MD 1753.0 ft		Well TVD 1753.0 ft	
County Weld		State/Province Colorado		BHP psi		BHST 101 degF		BHCT 83 degF		Pore Press. Gradient lb/gal	
Well Master 0631660743		API/UWI 05123422040000									
Rig Name Xtreme #22		Drilled For Oil		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Development		1753.0		9.6		36.0	
						0.0		0.0		0.0	
Drilling Fluid Type Other		Max. Density 9.00 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
Service Line Cementing		Job Type Surface									
Max. Allowed Tub. Press 2500 psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft			
						ft		ft			
						ft		ft			
						Treat Down Casing		Displacement 132.2 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 135.5 bbl		Annular Vol. 152.5 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 868 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 1753.0 ft		Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type		Tool Depth ft			
Cement Head Type Single						Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Jan/14/2016 04:00		Arrived on Location Jan/14/2016 04:00		Leave Location Jan/14/2016 14:00		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 1711.0 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
01/14/2016	10:42:54	7	0.0	8.32	0.0	Started Acquisition					
01/14/2016	10:42:55	7	0.0	8.32	0.0	Start Job					
01/14/2016	10:42:56	7	0.0	8.32	0.0	Drop bottom plug					
01/14/2016	10:42:58	7	0.0	8.32	0.0	Start Pumping 5bbl water					
01/14/2016	10:46:20	1152	0.0	8.32	5.3	Pressure Test Lines 1000psi					
01/14/2016	10:47:54	3151	0.0	8.32	5.3						
01/14/2016	10:48:20	3127	0.0	8.32	5.3	Pressure Test Lines 3000psi					
01/14/2016	10:52:54	52	0.0	8.32	0.0						
01/14/2016	10:53:11	52	0.0	8.32	0.0	End 5bbl water					
01/14/2016	10:53:22	52	0.0	8.32	0.0	Reset Total, Vol = 5.33 bbl					
01/14/2016	10:57:34	260	4.9	14.04	2.8	Start Mixing Lead Slurry					
01/14/2016	10:57:54	251	4.8	13.83	4.4						
01/14/2016	11:02:54	221	4.9	14.24	28.8						
01/14/2016	11:07:54	221	4.9	14.34	53.2						
01/14/2016	11:12:54	214	4.9	14.17	77.4						
01/14/2016	11:17:54	211	4.9	14.22	101.8						
01/14/2016	11:22:54	206	4.9	14.24	126.2						
01/14/2016	11:27:54	224	4.9	14.19	150.6						
01/14/2016	11:32:54	229	4.9	14.25	174.9						
01/14/2016	11:37:54	213	4.9	14.31	199.3						
01/14/2016	11:39:32	42	0.3	15.14	206.3	End Lead Slurry					

Well Pronghorn A-E-22HNB			Field DJ		Job Start Jan/14/2016	Customer Bonanza Creek		Job Number DAXH-00605
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
01/14/2016	11:39:40	41	0.0	15.10	206.3	Drop Top Plug		
01/14/2016	11:39:44	40	0.0	15.09	206.3	Start Displacement		
01/14/2016	11:42:54	37	0.0	14.94	206.3			
01/14/2016	11:47:54	171	4.6	8.85	0.5			
01/14/2016	11:52:54	201	4.9	8.36	25.2			
01/14/2016	11:57:54	437	4.8	8.49	49.3			
01/14/2016	12:02:54	389	2.2	8.33	76.3			
01/14/2016	12:06:39	492	4.8	8.33	91.7	55bbl CMT to surface		
01/14/2016	12:07:54	607	4.8	8.34	97.7			
01/14/2016	12:12:54	659	4.8	8.34	121.7			
01/14/2016	12:17:51	1223	0.0	8.34	135.2	Bump plug at 132bbl away		
01/14/2016	12:17:54	1224	0.0	8.34	135.2			
01/14/2016	12:20:35	1080	0.0	8.34	135.2	Bleed pressure check floats		
01/14/2016	12:21:05	26	0.0	8.34	135.2	Floats holding .5bbl back		
01/14/2016	12:22:34	1524	0.2	8.34	136.0	Bring pressure up to 1500psi		
01/14/2016	12:22:54	1518	0.0	8.34	136.0	Hold pressure for 15min		
01/14/2016	12:27:54	1458	0.0	8.34	136.0			
01/14/2016	12:28:21	1453	0.0	8.34	136.0	CMT bowl leaking a little bit at the landing joint		
01/14/2016	12:32:54	1406	0.0	8.34	136.0			
01/14/2016	12:36:33	1370	0.0	8.34	136.0	Final pressure		
01/14/2016	12:36:48	732	0.0	8.34	136.0	Bleed pressure		
01/14/2016	12:37:04	23	0.0	8.34	136.0	Floats holding		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 4.6	N2	Mud	Maximum Rate 6.3	Total Slurry 208.0	Mud 0.0	Spacer 5.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 1518	Final 24	Average 543	Bump Plug to 1223	Breakdown	Type	Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 208.0 bbl		Displacement 132.0 bbl	Mix Water Temp 63 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 55.0 bbl		
						Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Sam Mares			Schlumberger Supervisor Chris Valerio/Ken Sovereign			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
						-	-		