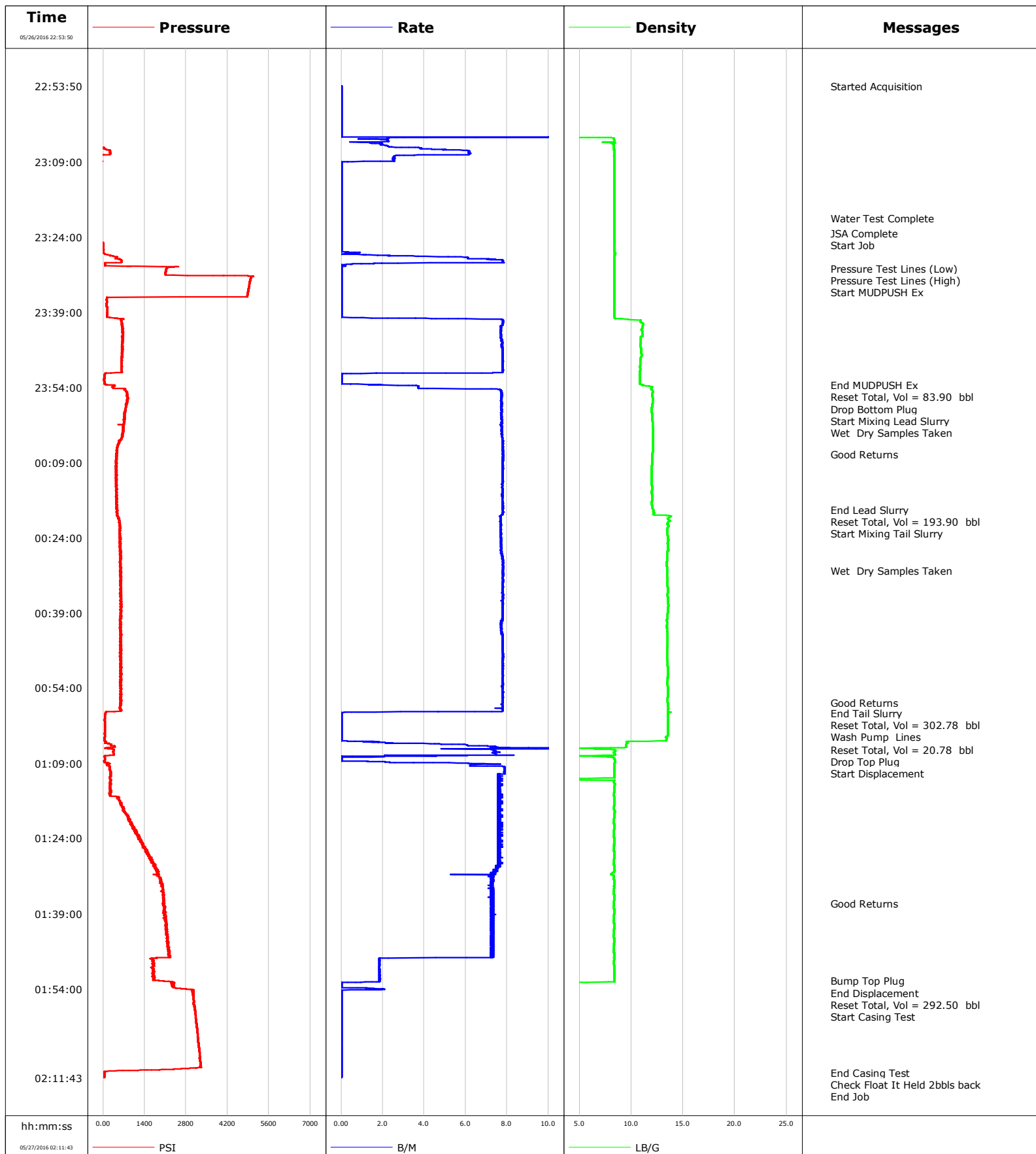


**Well** Land Fed  
**Field** Wattenberg  
**Engineer** Wayne Silvester/Justin Storey  
**Country** United States

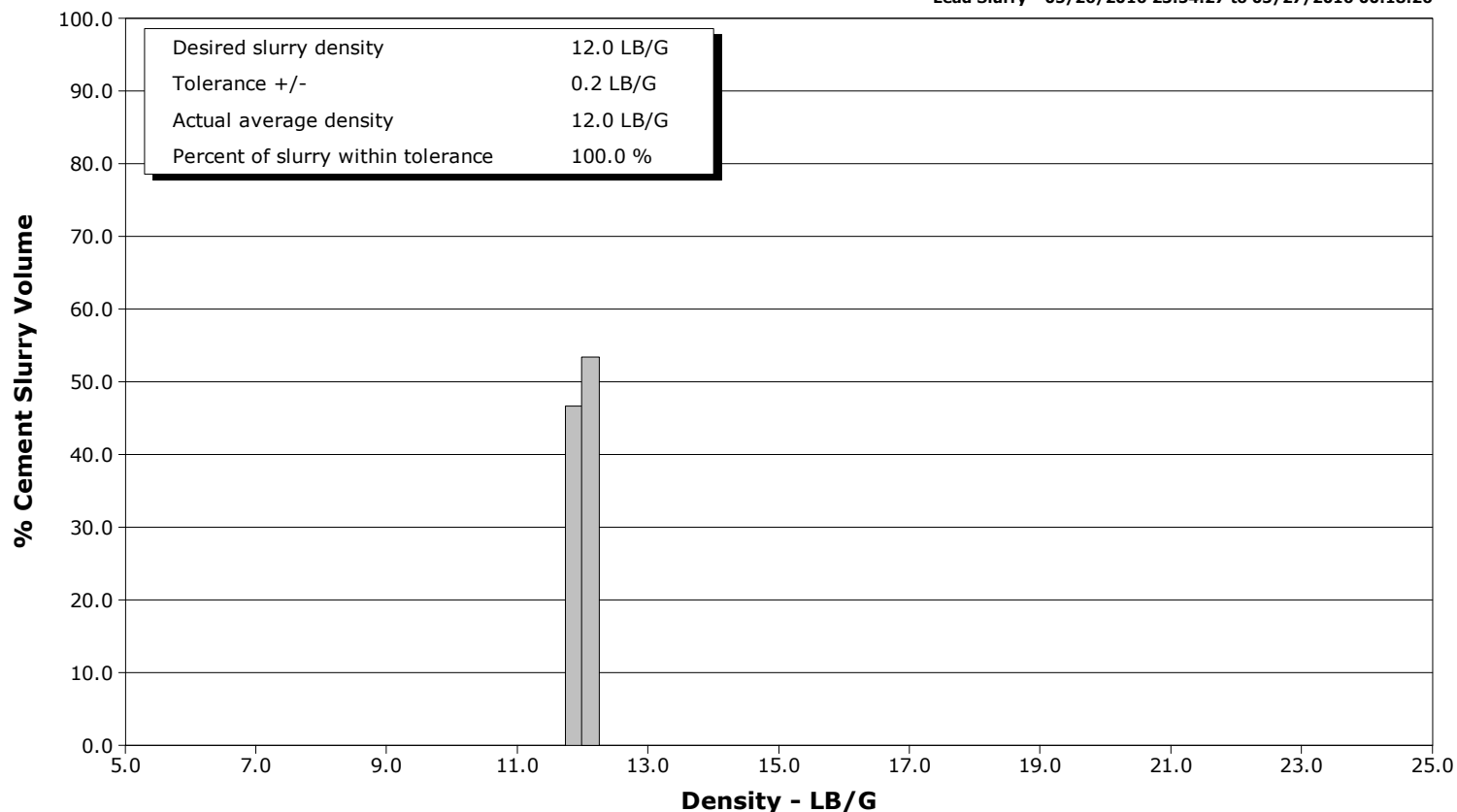
**Client** Anadarko  
**SIR No.** D5VO-01246  
**Job Type** Monobore  
**Job Date** 05-26-2016



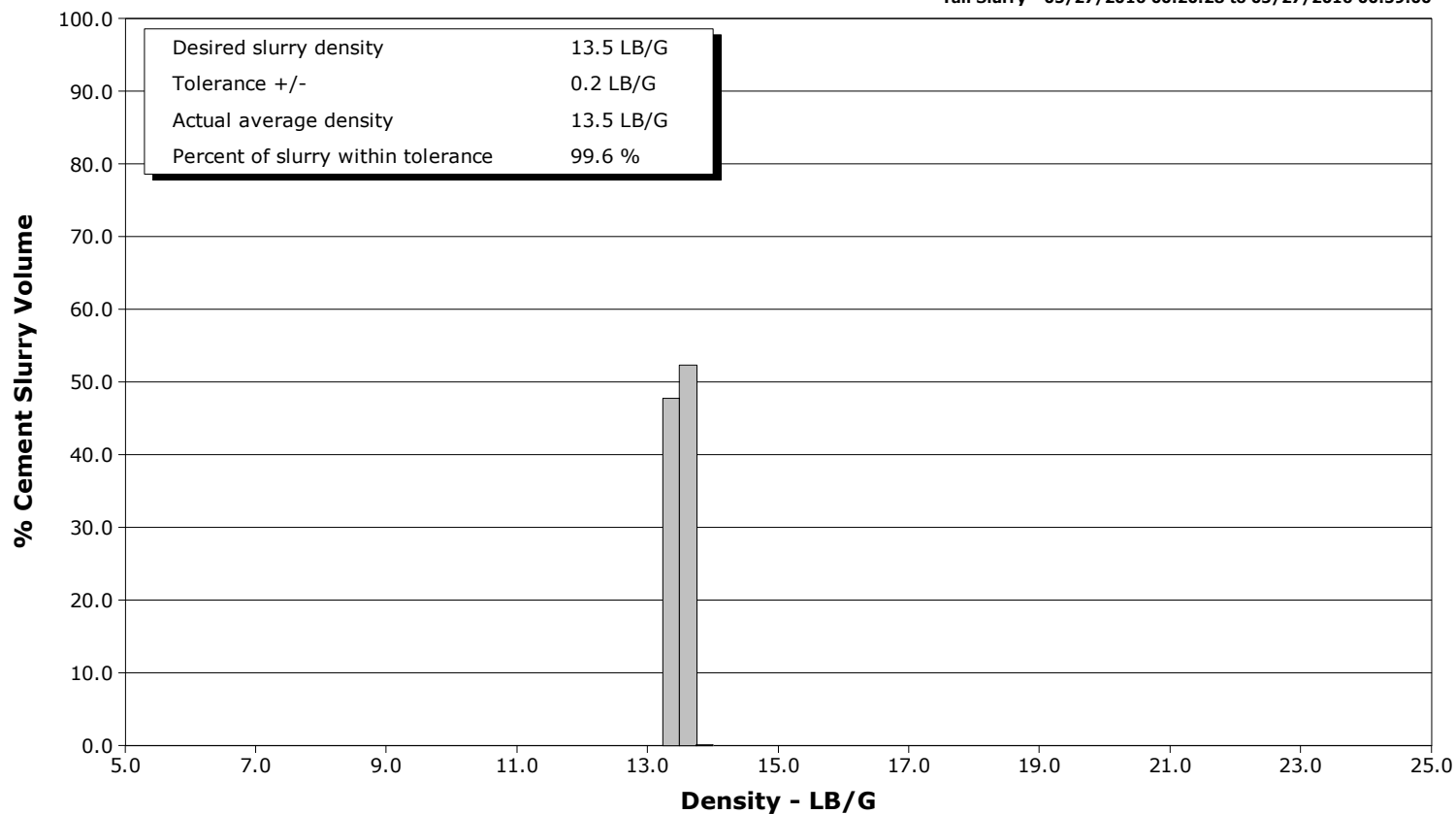
**Well** Land Fed  
**Field** Wattenberg  
**Engineer** Wayne Silvester/Justin Storey  
**Country** United States

**Client** Anadarko  
**SIR No.** D5VO-01246  
**Job Type** Monobore  
**Job Date** 05-26-2016

**Lead Slurry - 05/26/2016 23:54:27 to 05/27/2016 00:18:26**



**Tail Slurry - 05/27/2016 00:20:28 to 05/27/2016 00:59:00**



# Cementing Service Report

				Customer Anadarko			Job Number D5VO-01246				
Well Land Fed 34N-32HZ			Location (legal) 217304			Schlumberger Location Cheyenne			Job Start May/26/2016		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 12673.0 ft		Well TVD 7217.1 ft	
County Weld		State/Province Colorado		BHP 1419 psi		BHST 226 degF		BHCT 222 degF		Pore Press. Gradient lb/gal	
Well Master 631663000		API/UWI 05123423960000									
Rig Name P 461		Drilled For Oil and Gas		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Other		12673.0		5.5		17.0	
						0.0		0.0		0.0	
Drilling Fluid Type LT OBM		Max. Density 9.50 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
Service Line Cementing		Job Type Monobore									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 5 1/2		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		ft	
						ft		ft		ft	
						Treat Down Casing		Displacement 292.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 295.0 bbl		Annular Vol. 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 1418 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12673.0 ft		Tool Type			
No. Centralizers		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 May/26/2016		Arrived on Location May/26/2016		Leave Location May/26/2016		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 12580.0 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_PRESS PSI	Message					
05/26/2016	22:53:50	0.0	0.01	0.0	-54	Started Acquisition					
05/26/2016	23:00:31	0.0	0.01	0.0	-54						
05/26/2016	23:07:12	6.2	8.38	10.2	237						
05/26/2016	23:13:53	0.0	8.38	16.2	-86						
05/26/2016	23:20:14	0.0	8.38	16.2	-84	Water Test Complete					
05/26/2016	23:20:34	0.0	8.38	16.2	-85						
05/26/2016	23:23:14	0.0	8.38	16.2	-84	JSA Complete					
05/26/2016	23:25:04	0.0	8.38	16.2	-86	Start Job					
05/26/2016	23:27:15	0.7	8.46	16.4	29						
05/26/2016	23:30:11	0.0	8.38	26.8	2148	Pressure Test Lines (Low)					
05/26/2016	23:31:52	0.0	8.38	26.8	5067	Pressure Test Lines (High)					
05/26/2016	23:32:50	0.0	8.38	26.8	4957	Start MUDPUSH Ex					
05/26/2016	23:33:56	0.0	8.38	26.8	4919						
05/26/2016	23:40:37	7.8	10.90	29.8	599						
05/26/2016	23:47:18	7.8	10.98	81.5	637						
05/26/2016	23:53:31	1.3	11.16	111.9	201	End MUDPUSH Ex					
05/26/2016	23:53:32	1.6	11.13	111.9	287	Reset Total, Vol = 83.90 bbl					
05/26/2016	23:53:33	1.6	11.13	111.9	378	Drop Bottom Plug					
05/26/2016	23:53:59	3.7	12.00	113.4	320						
05/26/2016	23:54:27	7.6	11.96	115.9	768	Start Mixing Lead Slurry					
05/26/2016	23:54:32	7.7	11.99	116.5	720	Wet Dry Samples Taken					

Well			Field	Job Start		Customer	Job Number
Land Fed 34N-32HZ			Wattenberg	May/26/2016		Anadarko	D5VO-01246
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_PRESS PSI	Message	
05/27/2016	00:07:18	7.8	12.02	215.4	441	Good Returns	
05/27/2016	00:07:21	7.8	12.01	215.8	472		
05/27/2016	00:14:02	7.8	12.01	267.8	468		
05/27/2016	00:18:26	7.8	12.12	302.0	482	End Lead Slurry	
05/27/2016	00:18:54	7.8	12.15	305.6	482	Reset Total, Vol = 193.90 bbl	
05/27/2016	00:20:28	7.7	13.63	317.7	538	Start Mixing Tail Slurry	
05/27/2016	00:20:43	7.7	13.68	319.7	556		
05/27/2016	00:27:24	7.7	13.44	371.1	604		
05/27/2016	00:30:31	7.8	13.44	395.4	570	Wet Dry Samples Taken	
05/27/2016	00:34:05	7.8	13.52	423.2	592		
05/27/2016	00:40:46	7.7	13.44	475.2	587		
05/27/2016	00:47:27	7.8	13.46	527.0	592		
05/27/2016	00:54:08	7.8	13.54	579.0	629		
05/27/2016	00:56:55	7.8	13.52	600.7	621	Good Returns	
05/27/2016	00:59:00	0.0	13.54	614.7	79	End Tail Slurry	
05/27/2016	00:59:02	0.0	13.54	614.7	77	Reset Total, Vol = 302.78 bbl	
05/27/2016	00:59:23	0.0	13.55	614.7	67	Wash Pump Lines	
05/27/2016	01:00:49	0.0	13.55	614.7	59		
05/27/2016	01:06:19	7.4	8.41	624.5	355	Reset Total, Vol = 20.78 bbl	
05/27/2016	01:07:30	4.2	3.84	633.0	70		
05/27/2016	01:07:47	0.1	8.09	633.3	51	Drop Top Plug	
05/27/2016	01:07:51	0.0	8.26	633.3	53	Start Displacement	
05/27/2016	01:14:11	7.6	8.36	673.8	245		
05/27/2016	01:20:52	7.6	8.29	724.6	925		
05/27/2016	01:27:33	7.6	8.36	775.5	1585		
05/27/2016	01:34:14	7.3	8.33	824.9	2017		
05/27/2016	01:36:55	7.3	8.34	844.4	2069	Good Returns	
05/27/2016	01:40:55	7.3	8.37	873.5	2111		
05/27/2016	01:47:36	7.2	8.36	922.2	2261		
05/27/2016	01:52:25	1.8	8.37	932.3	2059	Bump Top Plug	
05/27/2016	01:52:38	1.5	7.78	932.7	2282	End Displacement	
05/27/2016	01:52:43	0.0	0.58	932.7	2289	Reset Total, Vol = 292.50 bbl	
05/27/2016	01:54:15	0.0	0.01	933.4	2989	Start Casing Test	
05/27/2016	01:54:17	0.0	0.01	933.4	3024		
05/27/2016	02:00:58	0.0	0.01	933.4	3150		
05/27/2016	02:07:39	0.0	0.01	933.4	3267		
05/27/2016	02:10:38	0.0	0.01	933.4	46	End Casing Test	
05/27/2016	02:11:07	0.0	0.01	933.4	43	Check Float It Held 2bbls back	

<b>Well</b> Land Fed 34N-32HZ	<b>Field</b> Wattenberg	<b>Job Start</b> May/26/2016	<b>Customer</b> Anadarko	<b>Job Number</b> D5VO-01246
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 7.1	N2	Mud	Maximum Rate 8.6		Total Slurry 495.4	Mud 0.0	Spacer 83.6	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 5076	Final 43	Average 1132	Bump Plug to 1918	Breakdown	Type		Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 478.0 bbl	Displacement 292.1 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input type="checkbox"/>			Volume bbl	
					Washed Thru Perfs <input type="checkbox"/>			To ft	
Customer or Authorized Representative James Gober			Schlumberger Supervisor Wayne Silvester/Justin Storey			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
						-		-	