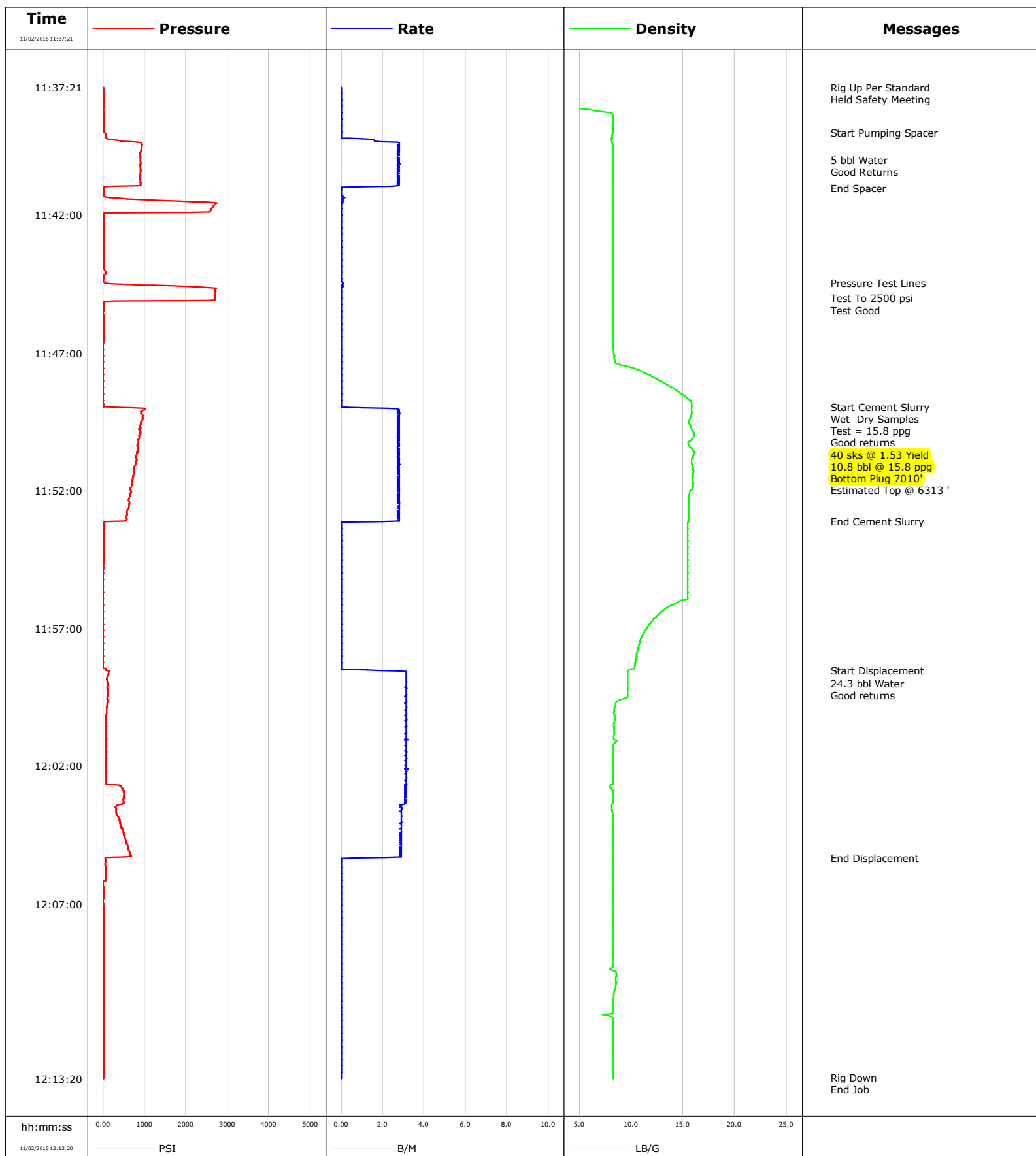


**Well** Erickson Birble P 25-3 JI  
**Field** DJ  
**Engineer** Jordan Moreland  
**Country** United States

**Client** Andarko  
**SIR No.** DA6T-00033  
**Job Type** Nio Plug  
**Job Date** 11-02-2016



# Cementing Service Report

				Customer Andarko			Job Number DA6T-00033			
Well Erickson Birble P 25-3 JI			Location (legal)		Schlumberger Location			Job Start Nov/02/2016		
Field DJ		Formation Name/Type		Deviation deg	Bit Size in		Well MD ft		Well TVD ft	
County Weld		State/Province Colorado		BHP psi	BHST degF		BHCT degF		Pore Press. Gradient lb/gal	
Well Master 0630449170		API/UWI 5123211450000								
Rig Name Basic 1652	Drilled For Oil	Service Via Land	Casing/ Liner							
			Depth, ft	Size, in	Weight, lb/ft	Grade		Thread		
Offshore Zone	Well Class Old	Well Type Workover								
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 Nio Plug			T	7010.0	2.4	4.7	J55		8RD
					0.0	0.0	0.0			
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection	Perforations/Open Hole							
			Top, ft	Bottom, ft	shot/ft	No. of Shots		Total Interval		
			ft	ft						ft
			ft	ft						Diameter
			ft	ft						in
Service Instructions Rate And Density Checked 5 bbl ChemWash 40 sks @ 1.53 @ 10.8 bbl @ 15.8 ppg Displace 24.3 bbl Water Bottom @ 7010' Estimated Top 6313										

Well			Field		Job Start	Customer		Job Number
Erickson Birble P 25-3 JI			DJ		Nov/02/2016	Andarko		DA6T-00033
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume B/M	Message		
11/02/2016	11:59:21	110	3.2	9.67	3.2			
11/02/2016	12:01:21	82	3.3	8.28	3.2			
11/02/2016	12:03:21	499	3.2	8.21	3.2			
11/02/2016	12:05:20	60	2.4	8.28	0.7	End Displacement		
11/02/2016	12:05:21	60	2.0	8.28	0.0			
11/02/2016	12:07:21	14	0.0	8.28	0.0			
11/02/2016	12:09:21	14	0.0	8.02	0.0			
11/02/2016	12:11:21	14	0.0	8.28	0.0			

## Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.8	N2	Mud	Maximum Rate 3.2	Total Slurry 10.8	Mud 0.0	Spacer 5.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2742	Final 0	Average 260	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 24.3 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

**Well** Erickson Birble P 25-3 JI

**Field** DJ

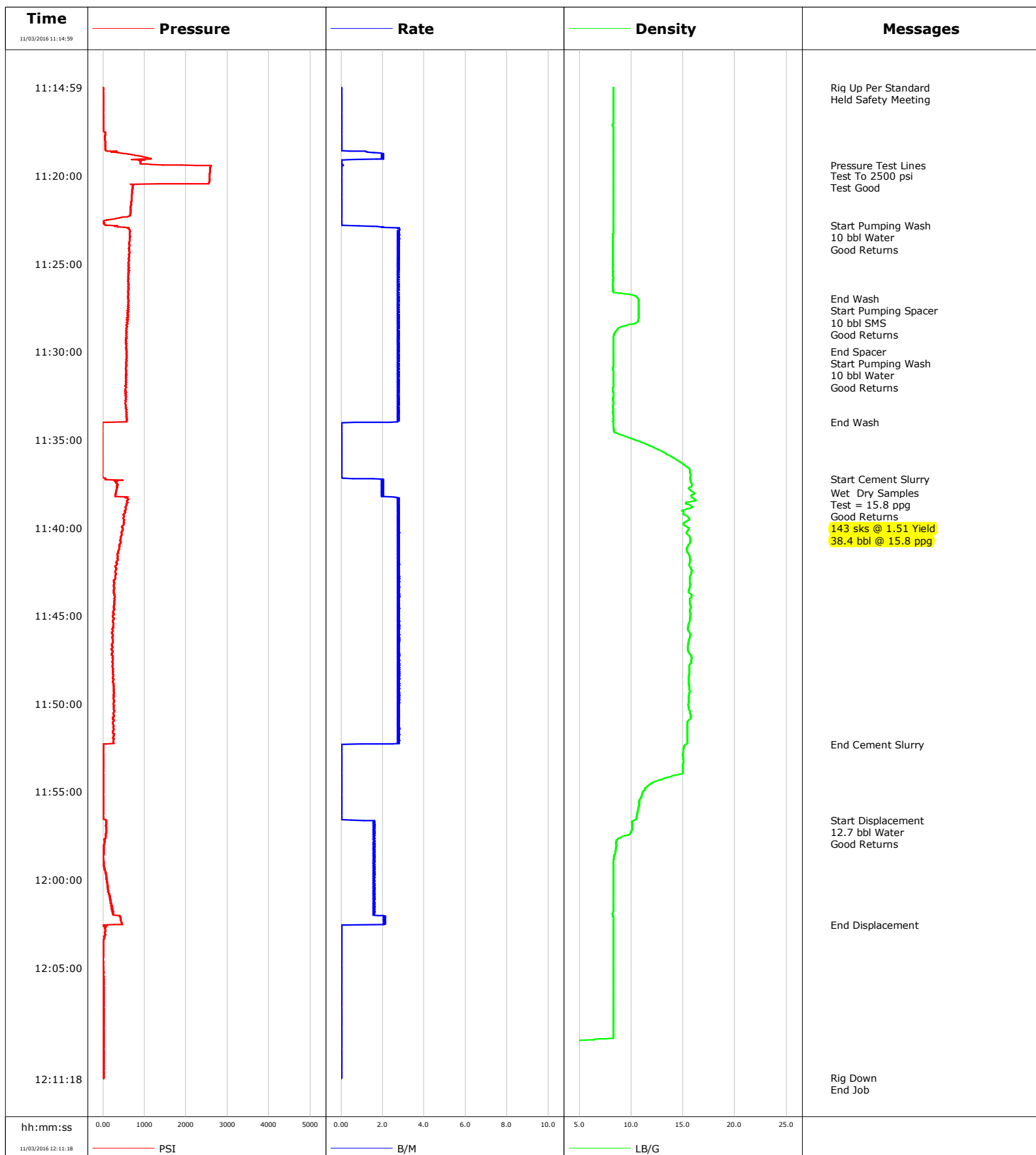
**Engineer** Jordan Moreland

**Country** United States

**Client** Anadarko

**SIR No.** DA6T-00034

**Job Type** Squeeze

**Job Date** 11-03-2016


Page 1 of 2

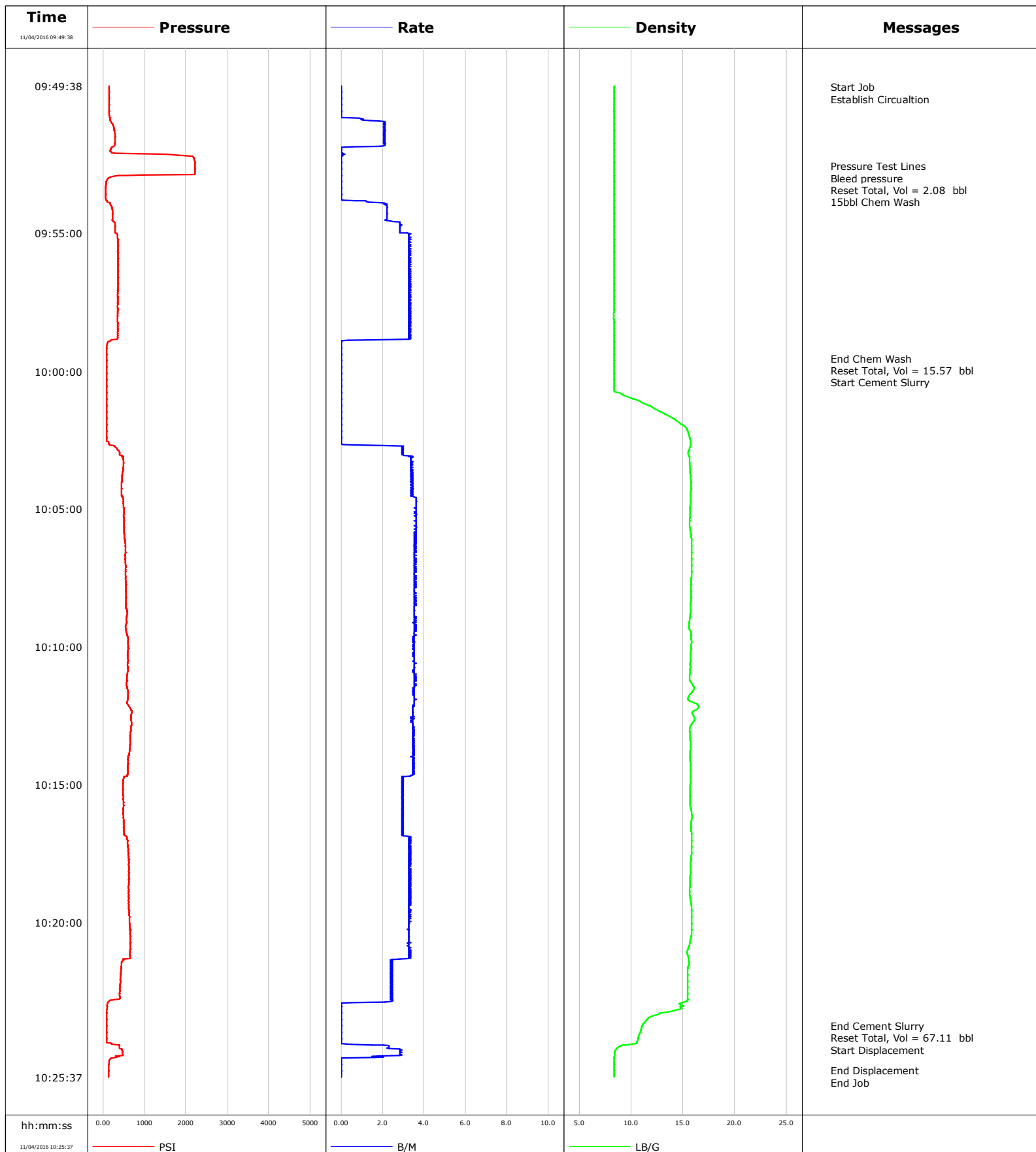
Well			Field		Job Start		Customer		Job Number	
Erickson Birble P 25-3 JI			DJ		Nov/03/2016		Anadarko		DA6T-00034	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume B/M	Message				
11/03/2016	11:37:13	64	1.4	15.71	0.6	Start Cement Slurry				
11/03/2016	11:38:00	307	1.9	16.00	2.0	Wet Dry Samples				
11/03/2016	11:38:59	549	2.6	15.17	2.7					
11/03/2016	11:39:00	540	2.6	15.07	2.7	Good Returns				
11/03/2016	11:40:00	458	2.6	15.49	2.8	38.4 bbl @ 15.8 ppg				
11/03/2016	11:40:59	398	2.6	15.54	2.8					
11/03/2016	11:42:59	261	2.6	15.65	2.8					
11/03/2016	11:44:59	238	2.6	15.68	2.8					
11/03/2016	11:46:59	206	2.6	15.47	2.8					
11/03/2016	11:48:59	256	2.7	15.57	2.8					
11/03/2016	11:50:59	261	2.6	15.48	2.7					
11/03/2016	11:52:19	0	1.4	15.28	0.0	End Cement Slurry				
11/03/2016	11:52:59	5	0.0	15.00	0.0					
11/03/2016	11:54:59	5	0.0	11.17	0.0					
11/03/2016	11:56:37	69	1.2	10.34	0.5	Start Displacement				
11/03/2016	11:56:59	73	2.6	10.11	1.6					
11/03/2016	11:57:00	73	2.6	10.11	1.6	12.7 bbl Water				
11/03/2016	11:58:59	14	2.6	8.29	1.6					
11/03/2016	12:00:59	156	1.6	8.28	1.6					
11/03/2016	12:02:34	-27	1.5	8.26	0.3	End Displacement				
11/03/2016	12:02:59	55	0.0	8.26	0.0					
11/03/2016	12:04:59	9	0.0	8.26	0.0					
11/03/2016	12:06:59	14	0.0	8.26	0.0					
11/03/2016	12:08:59	14	0.0	8.28	0.0					
11/03/2016	12:10:59	14	0.0	-0.00	0.0					

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 2.5	N2	Mud	Maximum Rate 2.8		Total Slurry 38.4	Mud 0.0	Spacer 30.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 2609	Final 14	Average 329	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 12.7 bbl		Mix Water Temp 60 degF		Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl		
								Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>			
						-		-			

**Well** Erickson Birkle  
**Field** DJ  
**Engineer** Chris Valerio  
**Country** United States

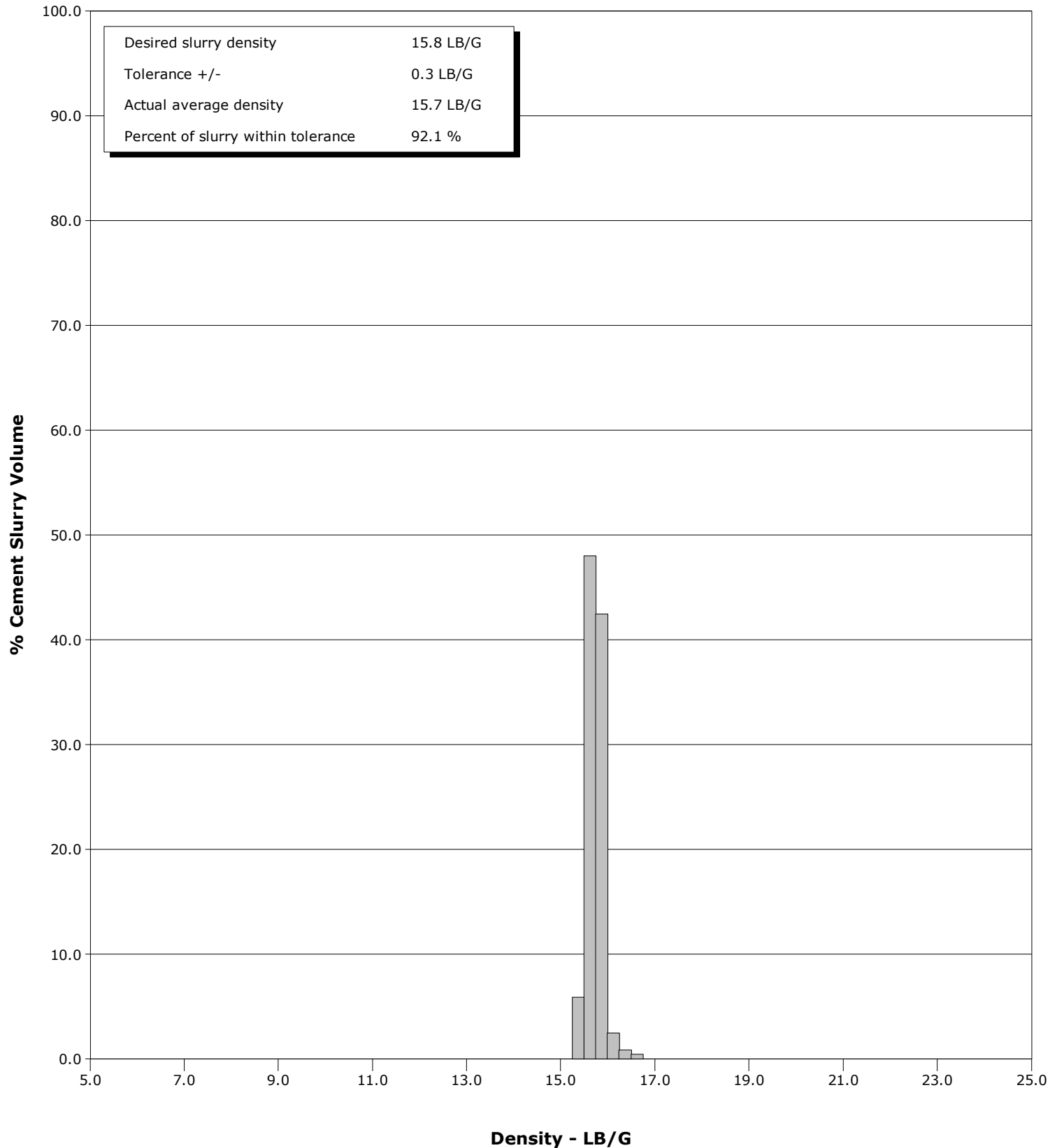
**Client** Anadarko  
**SIR No.** DA6T-00035  
**Job Type** Stub Plug  
**Job Date** 11-04-2016



**Well** Erickson Birkle  
**Field** DJ  
**Engineer** Chris Valerio  
**Country** United States

**Client** Anadarko  
**SIR No.** DA6T-00035  
**Job Type** Stub Plug  
**Job Date** 11-04-2016

Cement Slurry - 11/04/2016 10:02:44 to 11/04/2016 10:22:46





				Customer Anadarko			Job Number DA6T-00035	
Well Erickson Birkle P 25-3 JI			Location (legal)			Schlumberger Location		Job Start Nov/04/2016
Field DJ		Formation Name/Type Shale		Deviation deg		Bit Size 9.0 in		Well MD 1110.0 ft
County Weld		State/Province Colorado		BHP psi		BHST 90 degF		BHCT 80 degF
Well Master 0630449170		API/UWI 5123211450000				Pore Press. Gradient lb/gal		
Rig Name Basic		Drilled For N/A		Service Via Land		Casing/Liner		
						Depth, ft	Size, in	Weight, lb/ft
								Grade
								Thread
Offshore Zone		Well Class Old		Well Type Workover		536.0	8.6	24.0
						1110.0	4.5	11.6
Drilling Fluid Type Other		Max. Density 8.30 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe		
						T/D	Depth, ft	Size, in
								Weight, lb/ft
								Grade
								Thread
Service Line Cementing		Job Type Stub Plug				T	1110.0	2.4
							0.0	0.0
Max. Allowed Tub. Press 1500 psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole		
						Top, ft	Bottom, ft	shot/ft
								No. of Shots
								Total Interval
						ft	ft	
						ft	ft	Diameter
						ft	ft	in
						Treat Down Tubing	Displacement 1.0 bbl	Packer Type
								Packer Depth
						Tubing Vol. 4.2 bbl	Casing Vol. 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 psi				Shoe Type		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type		
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type		Tool Depth ft
Cement Head Type				Stage Tool Depth ft		Tail Pipe Size in		
Job Scheduled For Nov/04/2016 08:30		Arrived on Location Nov/04/2016 08:30		Leave Location Nov/04/2016 11:30		Collar Type		Tail Pipe Depth ft
						Collar Depth ft		Sqz. Total Vol. bbl
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Stg Volume BBL	Message		
11/04/2016	09:49:38	146	0.0	8.36	0.0	Started Acquisition		
11/04/2016	09:49:41	146	0.0	8.36	0.0	Start Job		
11/04/2016	09:49:51	146	0.0	8.36	0.0	Establish Circulation		
11/04/2016	09:52:32	2215	0.0	8.36	2.1	Pressure Test Lines		
11/04/2016	09:52:59	141	0.0	8.36	2.1	Bleed pressure		
11/04/2016	09:53:04	91	0.0	8.36	2.1	Reset Total, Vol = 2.08 bbl		
11/04/2016	09:53:18	68	0.0	8.36	0.0	15bbl Chem Wash		
11/04/2016	09:54:38	287	2.8	8.37	1.8			
11/04/2016	09:59:32	95	0.0	8.36	15.6	End Chem Wash		
11/04/2016	09:59:36	95	0.0	8.36	15.6	Reset Total, Vol = 15.57 bbl		
11/04/2016	09:59:38	95	0.0	8.36	0.0			
11/04/2016	09:59:40	95	0.0	8.36	0.0	Start Cement Slurry		
11/04/2016	10:04:38	489	3.6	15.73	6.5			
11/04/2016	10:09:38	599	3.5	15.81	24.4			
11/04/2016	10:14:38	608	3.5	15.73	41.9			
11/04/2016	10:19:38	635	3.4	15.83	57.7			
11/04/2016	10:23:45	95	0.0	11.08	67.1	End Cement Slurry		
11/04/2016	10:23:52	95	0.0	10.98	67.1	Reset Total, Vol = 67.11 bbl		
11/04/2016	10:23:56	95	0.0	10.94	0.0	Start Displacement		
11/04/2016	10:24:38	457	2.9	8.52	0.5			
11/04/2016	10:25:22	141	0.0	8.39	1.2	End Displacement		

<b>Well</b> Erickson Birkle P 25-3 JI	<b>Field</b> DJ	<b>Job Start</b> Nov/04/2016	<b>Customer</b> Anadarko	<b>Job Number</b> DA6T-00035
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.2	N2	Mud	Maximum Rate 3.6		Total Slurry 68.9	Mud 0.0	Spacer 15.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 674	Final 141	Average 445	Bump Plug to	Breakdown	Type		Volume bbl	Density lb/gal		
Avg. N2 Percent %		Designed Slurry Volume 68.9 bbl		Displacement 1.0 bbl		Mix Water Temp 62 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Edgar Chavez				Schlumberger Supervisor Chris Valerio				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-