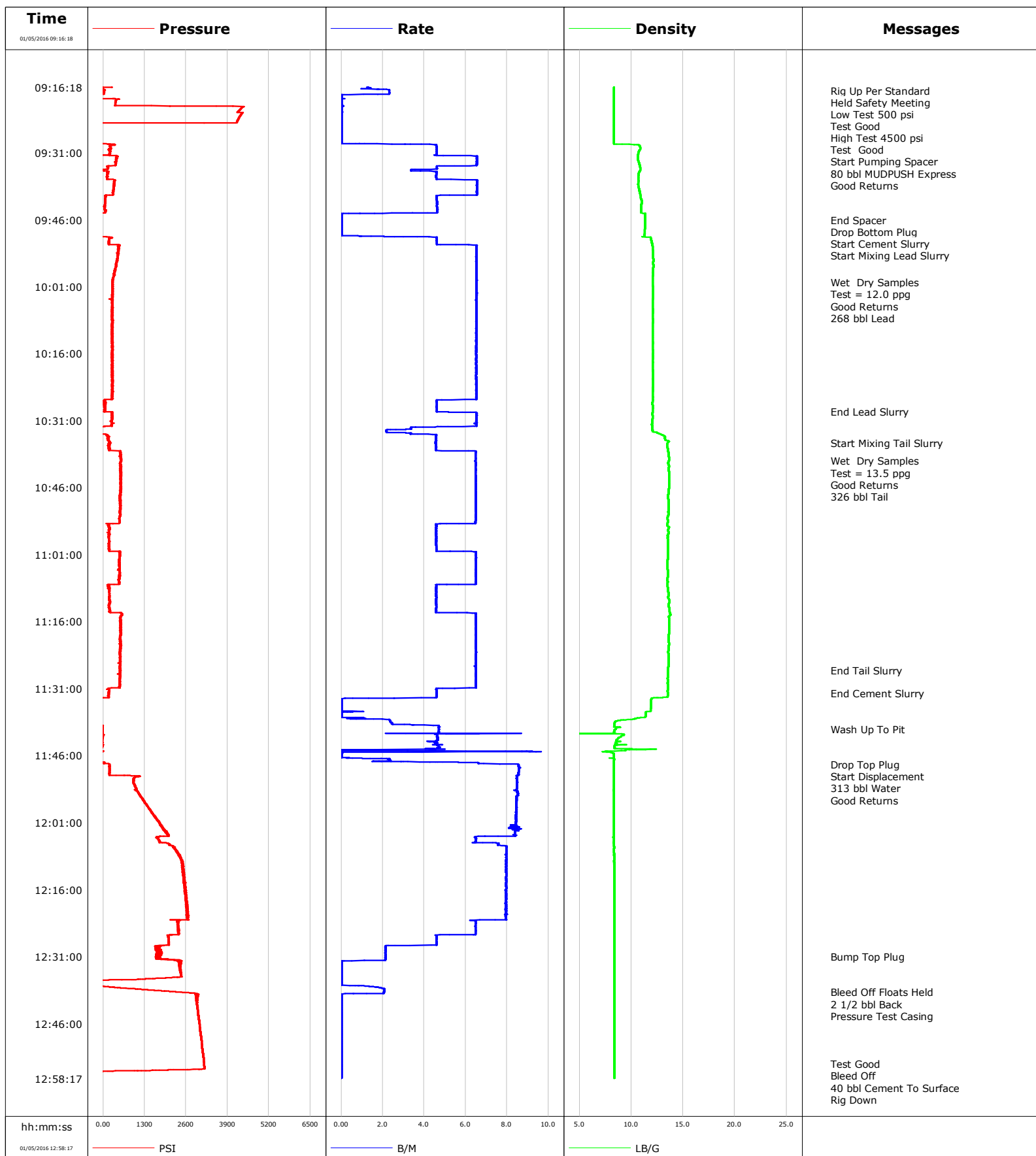


**Well** Whisper Rock 3N-25HZ  
**Field** Wattenberge  
**Engineer** Jordan Moreland / Stacy Terry  
**Country**

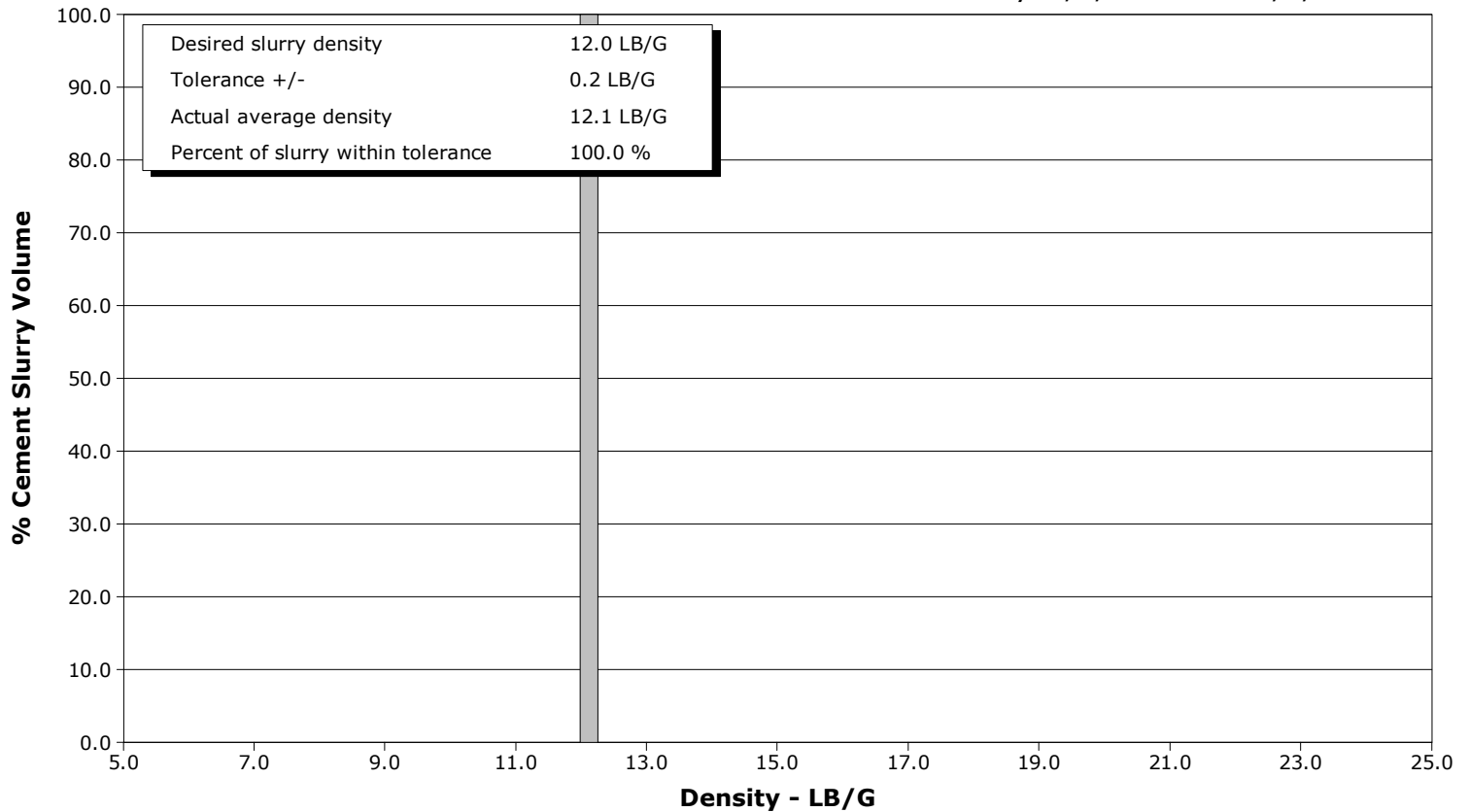
**Client** Anadarko  
**SIR No.** CWJN-01601  
**Job Type** Cem Prod Casing  
**Job Date**



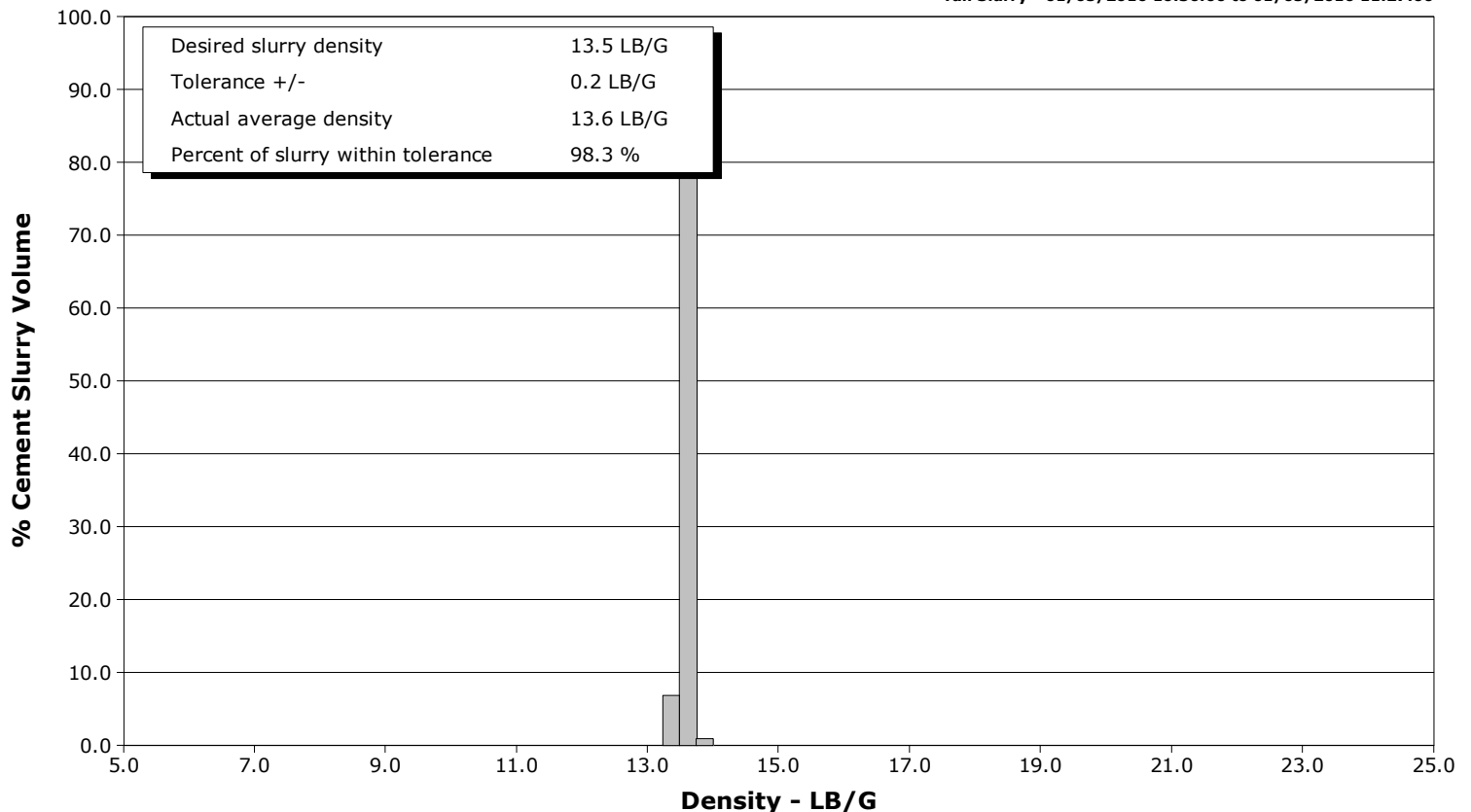
**Well** Whisper Rock 3N-25HZ  
**Field** Wattenberge  
**Engineer** Jordan Moreland / Stacy Terry  
**Country**

**Client** Anadarko  
**SIR No.** CWJN-01601  
**Job Type** Cem Prod Casing  
**Job Date**

**Lead Slurry - 01/05/2016 09:52:00 to 01/05/2016 10:29:00**



**Tail Slurry - 01/05/2016 10:36:00 to 01/05/2016 11:27:00**



# Cementing Service Report

				Customer Anadarko			Job Number CWJN-01601				
Well Whisper Rock 3N-25HZ			Location (legal)			Schlumberger Location CWY			Job Start Jan/05/2016		
Field Wattenberge		Formation Name/Type			Deviation deg		Bit Size 8.5 in		Well MD ft		
County Weld		State/Province Colorado			BHP psi		BHST 232 degF		BHCT 227 degF		
Well Master 0631629525		API/UWI 05123413000000							Pore Press. Gradient lb/gal		
Rig Name Precision 462		Drilled For Oil		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class New		Well Type Development		13570.0		5.5		17.0	
						0.0		0.0		0.0	
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 Cem Prod Casing									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 313.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 315.0 bbl		Annular Vol. 567.0 bbl	
										Openhole Vol. 1041.0 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 Float			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 13570.0 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/05/2016		Arrived on Location Jan/05/2016		Leave Location Jan/05/2016		Collar Type Float			Tail Pipe Depth ft		
						Collar Depth 13478.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
01/05/2016	09:16:18	278	1.2	8.34	0.0						
01/05/2016	09:17:00	53	2.3	8.34	1.1	Rig Up Per Standard					
01/05/2016	09:18:18	-156	0.0	8.34	0.0						
01/05/2016	09:20:00	382	0.0	8.34	0.0	Start Pumping Spacer					
01/05/2016	09:20:18	376	0.0	8.34	0.0						
01/05/2016	09:21:00	4333	0.0	8.34	0.0	80 bbl MUDPUSH Express					
01/05/2016	09:22:00	4369	0.0	8.34	0.0	Good Returns					
01/05/2016	09:22:18	4337	0.0	8.34	0.0						
01/05/2016	09:24:18	3159	0.0	8.34	0.0						
01/05/2016	09:26:18	-120	0.0	8.34	0.0						
01/05/2016	09:28:18	-114	0.0	8.34	0.0						
01/05/2016	09:30:18	159	4.6	10.83	5.7						
01/05/2016	09:32:18	417	6.5	10.61	16.1						
01/05/2016	09:34:18	164	4.6	10.84	28.5						
01/05/2016	09:36:18	146	4.6	10.69	37.2						
01/05/2016	09:38:18	333	6.5	10.66	48.9						
01/05/2016	09:40:18	317	6.5	10.86	62.0						
01/05/2016	09:42:18	63	4.6	10.99	71.6						
01/05/2016	09:44:18	77	4.6	10.97	80.9						
01/05/2016	09:46:00	-248	0.0	11.34	82.1	End Spacer					
01/05/2016	09:46:18	-249	0.0	11.33	82.1						

Well			Field	Job Start		Customer		Job Number	
Whisper Rock 3N-25HZ			Wattenberge		Jan/05/2016		Anadarko		CWJN-01601
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/05/2016	09:48:18	-248	0.0	11.31	82.1				
01/05/2016	09:50:00	271	4.6	11.88	83.2	Start Cement Slurry			
01/05/2016	09:50:18	189	4.6	11.90	84.5				
01/05/2016	09:52:00	486	6.5	12.04	93.1	Start Mixing Lead Slurry			
01/05/2016	09:52:18	490	6.5	12.05	95.0				
01/05/2016	09:54:18	463	6.5	12.12	108.1				
01/05/2016	09:56:18	406	6.5	12.14	121.1				
01/05/2016	09:58:18	349	6.5	12.10	134.2				
01/05/2016	10:00:00	297	6.5	12.07	145.3	Wet Dry Samples			
01/05/2016	10:00:18	294	6.5	12.08	147.2				
01/05/2016	10:01:00	301	6.5	12.09	151.8	Test = 12.0 ppg			
01/05/2016	10:02:00	294	6.5	12.12	158.3	Good Returns			
01/05/2016	10:02:18	295	6.5	12.11	160.3				
01/05/2016	10:03:00	299	6.5	12.10	164.9	268 bbl Lead			
01/05/2016	10:04:18	287	6.5	12.06	173.3				
01/05/2016	10:06:18	288	6.5	12.09	186.4				
01/05/2016	10:08:18	279	6.5	12.09	199.4				
01/05/2016	10:10:18	285	6.5	12.06	212.5				
01/05/2016	10:12:18	289	6.5	12.07	225.5				
01/05/2016	10:14:18	290	6.5	12.07	238.5				
01/05/2016	10:16:18	269	6.5	12.08	251.5				
01/05/2016	10:18:18	286	6.5	12.08	264.6				
01/05/2016	10:20:18	266	6.5	12.09	277.6				
01/05/2016	10:22:18	315	6.5	12.09	290.6				
01/05/2016	10:24:18	302	6.5	12.08	303.6				
01/05/2016	10:26:18	60	6.0	12.08	316.7				
01/05/2016	10:28:18	50	4.6	12.08	325.9				
01/05/2016	10:29:00	58	4.6	12.05	329.1	End Lead Slurry			
01/05/2016	10:30:18	274	6.5	12.04	337.4				
01/05/2016	10:32:18	37	5.9	12.00	350.5				
01/05/2016	10:34:18	146	4.6	13.10	356.8				
01/05/2016	10:36:00	212	4.5	13.51	364.6	Start Mixing Tail Slurry			
01/05/2016	10:36:18	213	4.6	13.46	366.0				
01/05/2016	10:38:18	542	6.5	13.59	376.1				
01/05/2016	10:40:00	561	6.5	13.62	387.1	Wet Dry Samples			
01/05/2016	10:40:18	545	6.5	13.57	389.1				
01/05/2016	10:41:00	542	6.5	13.62	393.6	Test = 13.5 ppg			
01/05/2016	10:42:00	546	6.5	13.60	400.1	Good Returns			
01/05/2016	10:42:18	563	6.5	13.61	402.0				
01/05/2016	10:43:00	574	6.5	13.64	406.6	326 bbl Tail			
01/05/2016	10:44:18	553	6.5	13.63	415.0				
01/05/2016	10:46:18	554	6.5	13.61	428.0				
01/05/2016	10:48:18	538	6.5	13.55	440.9				
01/05/2016	10:50:18	533	6.5	13.60	453.9				
01/05/2016	10:52:18	537	6.5	13.55	466.9				
01/05/2016	10:54:18	191	4.6	13.46	479.4				
01/05/2016	10:56:18	192	4.6	13.59	488.6				
01/05/2016	10:58:18	178	4.6	13.53	497.7				
01/05/2016	11:00:18	504	6.3	13.54	506.9				
01/05/2016	11:02:18	523	6.5	13.50	519.9				
01/05/2016	11:04:18	468	6.5	13.51	532.9				
01/05/2016	11:06:18	487	6.5	13.50	545.9				
01/05/2016	11:08:18	207	4.6	13.52	557.7				
01/05/2016	11:10:18	209	4.6	13.57	566.8				

Well			Field	Job Start		Customer		Job Number	
Whisper Rock 3N-25HZ			Wattenberge		Jan/05/2016		Anadarko		CWJN-01601
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/05/2016	11:14:18	594	6.5	13.75	585.7				
01/05/2016	11:16:18	559	6.5	13.62	598.6				
01/05/2016	11:18:18	539	6.5	13.62	611.6				
01/05/2016	11:20:18	539	6.5	13.60	624.6				
01/05/2016	11:22:18	544	6.5	13.58	637.6				
01/05/2016	11:24:18	544	6.5	13.59	650.6				
01/05/2016	11:26:18	535	6.5	13.56	663.6				
01/05/2016	11:27:00	524	6.5	13.55	668.1	End Tail Slurry			
01/05/2016	11:28:18	530	6.5	13.53	676.5				
01/05/2016	11:30:18	521	6.5	13.52	689.5				
01/05/2016	11:32:00	172	4.6	13.52	698.5	End Cement Slurry			
01/05/2016	11:32:18	180	4.6	13.52	699.9				
01/05/2016	11:34:18	-255	0.0	11.92	703.8				
01/05/2016	11:36:18	-172	0.0	11.39	703.9				
01/05/2016	11:38:18	-175	2.3	8.51	705.3				
01/05/2016	11:40:00	-25	4.7	8.53	711.4	Wash Up To Pit			
01/05/2016	11:40:18	-35	4.7	8.39	712.8				
01/05/2016	11:42:18	-21	4.6	8.69	722.2				
01/05/2016	11:44:18	-37	4.6	8.36	731.4				
01/05/2016	11:46:18	-254	0.0	8.34	735.1				
01/05/2016	11:48:00	205	8.5	8.33	740.8	Drop Top Plug			
01/05/2016	11:48:18	198	8.5	8.33	743.4				
01/05/2016	11:49:00	200	8.5	8.34	749.4	Start Displacement			
01/05/2016	11:50:00	192	8.5	8.34	758.0	313 bbl Water			
01/05/2016	11:50:18	201	8.5	8.34	760.5				
01/05/2016	11:51:00	973	8.5	8.34	766.4	Good Returns			
01/05/2016	11:52:18	966	8.5	8.33	777.5				
01/05/2016	11:54:18	1109	8.5	8.33	794.4				
01/05/2016	11:56:18	1291	8.4	8.33	811.3				
01/05/2016	11:58:18	1488	8.4	8.34	828.2				
01/05/2016	12:00:18	1680	8.4	8.34	845.1				
01/05/2016	12:02:18	1894	8.4	8.34	861.8				
01/05/2016	12:04:18	1700	6.5	8.25	878.2				
01/05/2016	12:06:18	2188	8.0	8.35	892.1				
01/05/2016	12:08:18	2403	8.0	8.35	908.0				
01/05/2016	12:10:18	2475	7.9	8.35	923.9				
01/05/2016	12:12:18	2511	8.0	8.35	939.8				
01/05/2016	12:14:18	2518	7.9	8.35	955.7				
01/05/2016	12:16:18	2603	7.9	8.36	971.6				
01/05/2016	12:18:18	2608	7.9	8.35	987.4				
01/05/2016	12:20:18	2636	7.9	8.36	1003.3				
01/05/2016	12:22:18	2655	7.9	8.35	1019.2				
01/05/2016	12:24:18	2335	6.5	8.36	1032.9				
01/05/2016	12:26:18	2051	4.6	8.36	1045.6				
01/05/2016	12:28:18	2058	4.6	8.36	1054.7				
01/05/2016	12:30:18	1694	2.1	8.36	1059.5				
01/05/2016	12:31:00	1767	2.1	8.36	1061.0	Bump Top Plug			
01/05/2016	12:32:18	2365	0.0	8.36	1063.0				
01/05/2016	12:34:18	2412	0.0	8.36	1063.0				
01/05/2016	12:36:18	-5	0.0	8.37	1063.0				
01/05/2016	12:38:18	1080	2.1	8.36	1064.4				
01/05/2016	12:39:00	2458	2.0	8.36	1065.8	Bleed Off Floats Held			
01/05/2016	12:40:00	2970	0.0	8.36	1066.4	2 1/2 bbl Back			
01/05/2016	12:40:18	2961	0.0	8.36	1066.4				

Well			Field		Job Start	Customer		Job Number	
Whisper Rock 3N-25HZ			Wattenberge		Jan/05/2016	Anadarko		CWJN-01601	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
01/05/2016	12:44:18	2986	0.0	8.37	1066.4				
01/05/2016	12:46:18	3022	0.0	8.37	1066.4				
01/05/2016	12:48:18	3056	0.0	8.37	1066.4				
01/05/2016	12:50:18	3089	0.0	8.37	1066.4				
01/05/2016	12:52:18	3120	0.0	8.37	1066.4				
01/05/2016	12:54:18	3153	0.0	8.37	1066.4				
01/05/2016	12:55:00	3163	0.0	8.37	1066.4	Test Good			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final 0	Average	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement bbl	Mix Water Temp 74 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative			Schlumberger Supervisor Jordan Moreland / Stacy Terry			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				