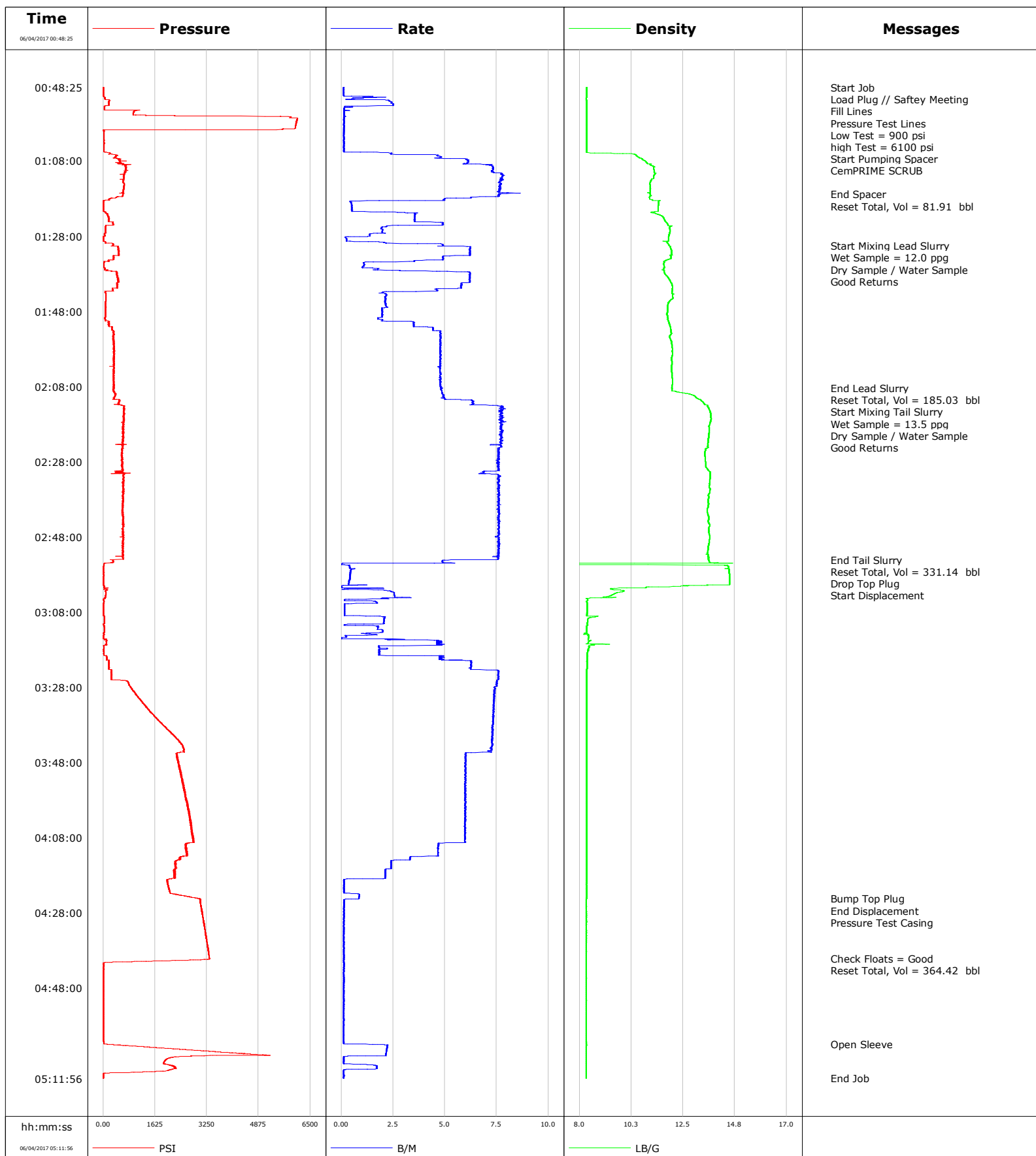


**Well** BUTTERBALL 24C-34HZ  
**Field** WATTENBERG  
**Engineer** Charles Rogers // Drew Dansie  
**Country** United States

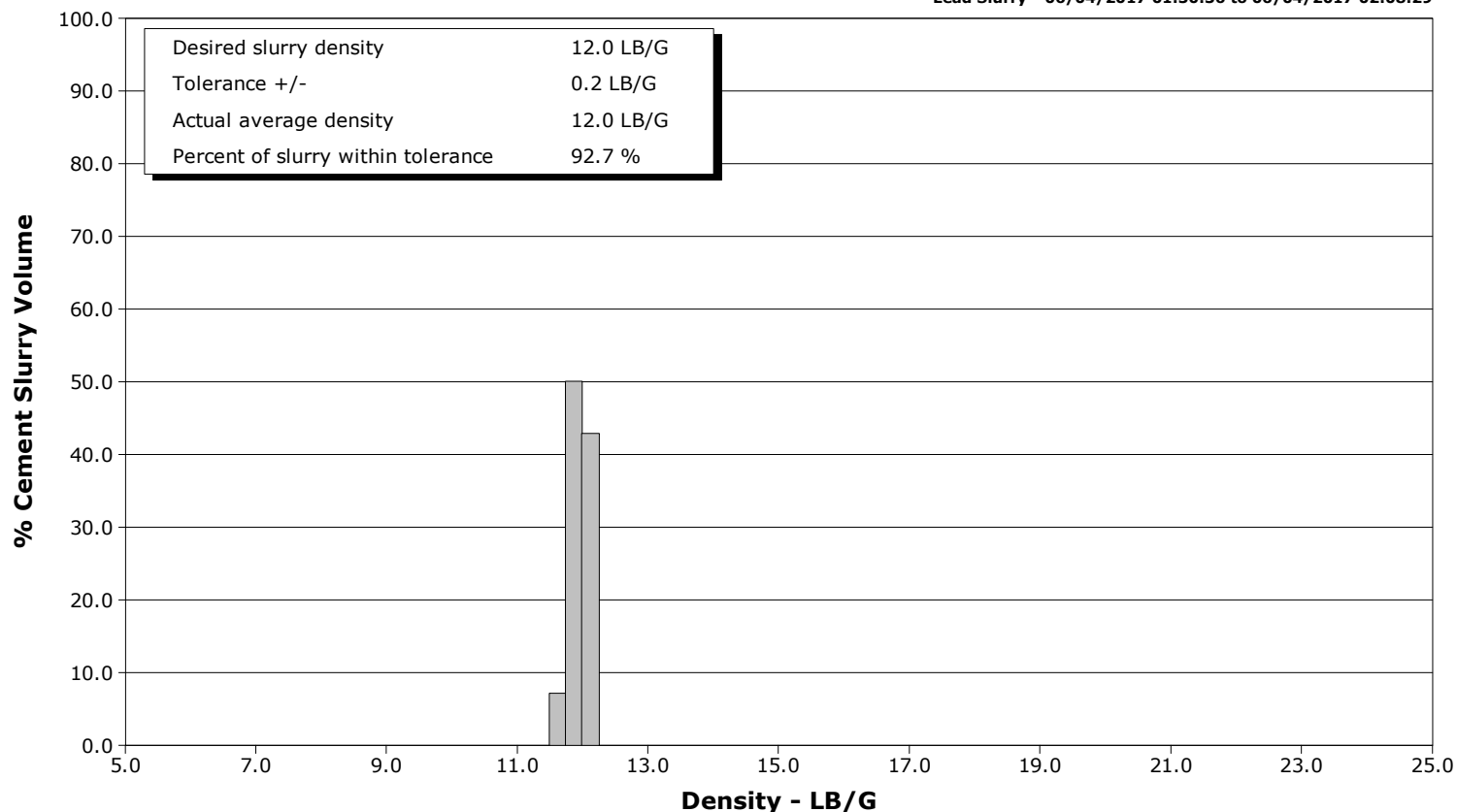
**Client** Anadarko  
**SIR No.** DMBW-01017  
**Job Type** 5 1/2 Production  
**Job Date** 06-03-2017



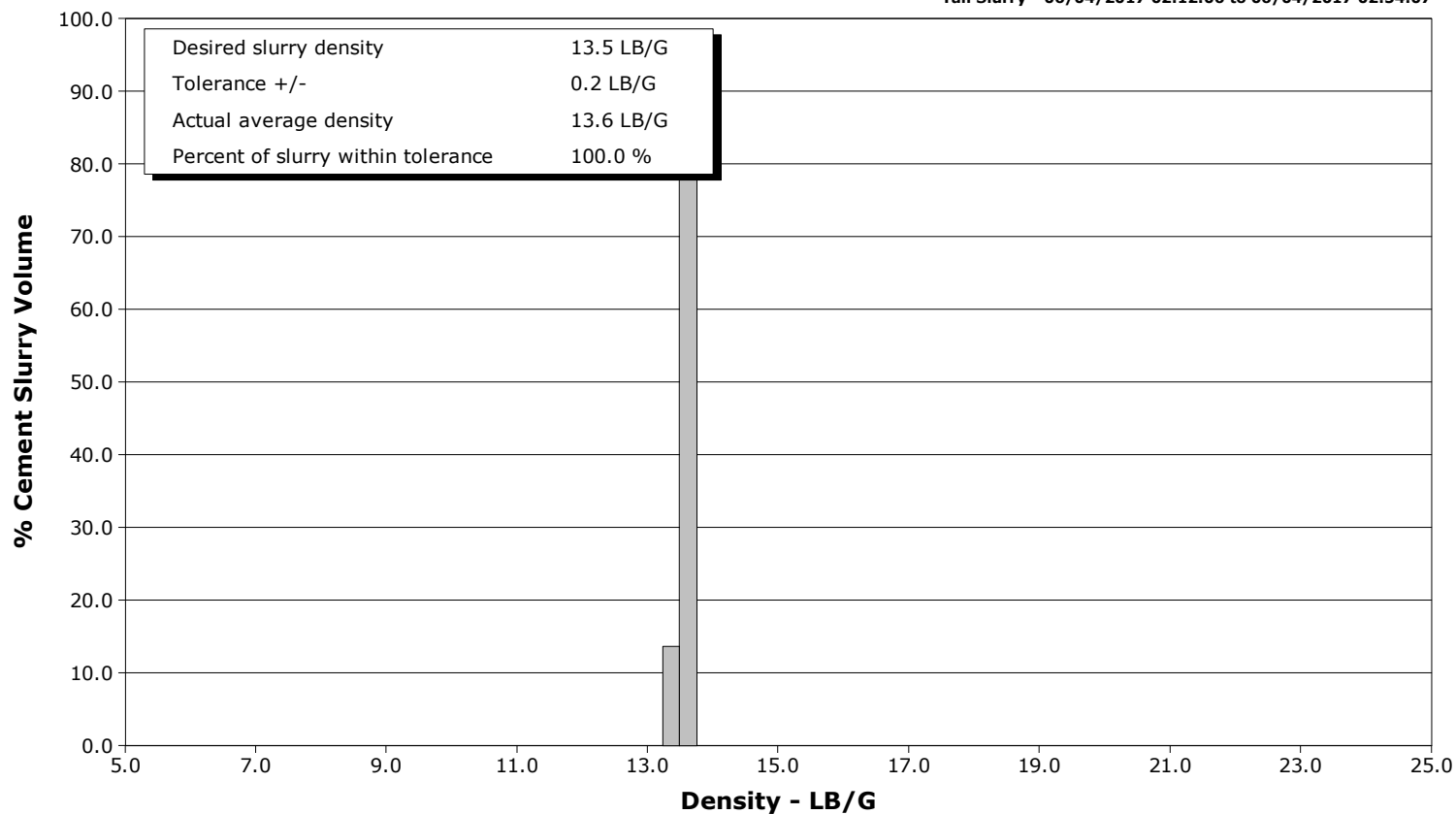
**Well** BUTTERBALL 24C-34HZ  
**Field** WATTENBERG  
**Engineer** Charles Rogers // Drew Dansie  
**Country** United States

**Client** Anadarko  
**SIR No.** DMBW-01017  
**Job Type** 5 1/2 Production  
**Job Date** 06-03-2017

**Lead Slurry - 06/04/2017 01:30:36 to 06/04/2017 02:08:29**



**Tail Slurry - 06/04/2017 02:12:06 to 06/04/2017 02:54:07**



# Cementing Service Report

				Customer Anadarko			Job Number DMBW-01017								
Well BUTTERBALL 24C-34HZ 0			Location (legal) BCA			Schlumberger Location Cheyenne, WY			Job Start Jun/03/2017						
Field WATTENBERG		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 0631713246		API/UWI 05123443200000													
Rig Name PRECISION #461		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		15682.0		5.5		17.0		K55	8RD		
						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 5 1/2 Production													
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	
Service Instructions 80 bbls of 10.9 ppg CemPRIME 539 Sacks of 12.0 ppg Lead Cement 1070 Sacks of 13.5 ppg Tail Cement						ft		ft							
						ft		ft						Diameter in	
						ft		ft							
		Treat Down				Displacement bbl		Packer Type		Packer Depth ft					
		Tubing Vol. 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 Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 15682.0 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 Jun/03/2017		Arrived on Location Jun/03/2017		Leave Location Jun/04/2017		Collar Type Float				Tail Pipe Depth ft					
						Collar Depth 15680.0 ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
06/04/2017	00:48:25	5	0.1	8.31	37.4	Started Acquisition									
06/04/2017	00:48:27	5	0.1	8.31	37.4	Load Plug // Saftey Meeting									
06/04/2017	00:48:28	5	0.1	8.31	37.4	Fill Lines									
06/04/2017	00:48:30	5	0.1	8.31	37.4	Pressure Test Lines									
06/04/2017	00:48:32	5	0.1	8.31	37.4	Low Test = 900 psi									
06/04/2017	00:48:33	4	0.1	8.31	37.4	high Test = 6100 psi									
06/04/2017	00:50:05	6	0.1	8.31	37.6										
06/04/2017	00:51:45	101	1.2	8.30	0.9										
06/04/2017	00:53:25	67	1.2	8.31	4.8										
06/04/2017	00:55:05	953	0.1	8.31	5.2										
06/04/2017	00:56:45	6096	0.1	8.31	5.4										
06/04/2017	00:58:25	6039	0.1	8.31	5.6										
06/04/2017	01:00:05	39	0.1	8.31	5.8										
06/04/2017	01:01:45	29	0.1	8.31	6.0										
06/04/2017	01:02:14	27	0.1	8.31	0.0	Start Pumping Spacer									
06/04/2017	01:03:25	33	0.1	8.31	0.2										
06/04/2017	01:04:35	27	0.1	8.31	0.3	CemPRIME SCRUB									
06/04/2017	01:05:05	27	0.1	8.31	0.4										
06/04/2017	01:06:45	395	4.7	10.50	3.8										
06/04/2017	01:08:25	547	6.1	10.90	13.0										
06/04/2017	01:10:05	712	7.3	11.23	24.5										

Well			Field	Job Start		Customer		Job Number	
BUTTERBALL 24C-34HZ 0			WATTENBERG		Jun/03/2017		Anadarko		DMBW-01017
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/04/2017	01:13:25	626	7.7	11.09	49.8				
06/04/2017	01:15:05	654	7.7	11.07	62.6				
06/04/2017	01:16:45	624	7.7	11.07	75.4				
06/04/2017	01:16:54	614	7.7	11.08	76.6	End Spacer			
06/04/2017	01:17:40	434	6.3	11.04	82.3	Reset Total, Vol = 81.91 bbl			
06/04/2017	01:18:25	196	4.9	11.16	86.4				
06/04/2017	01:20:05	13	0.5	11.42	88.0				
06/04/2017	01:21:45	71	2.9	11.11	0.7				
06/04/2017	01:23:25	177	3.5	11.66	6.6				
06/04/2017	01:25:05	314	4.9	11.84	13.6				
06/04/2017	01:26:45	68	2.0	11.92	17.2				
06/04/2017	01:28:25	11	0.2	11.86	19.6				
06/04/2017	01:30:05	306	4.8	11.85	21.3				
06/04/2017	01:30:36	306	4.9	11.89	23.8	Start Mixing Lead Slurry			
06/04/2017	01:30:37	324	4.9	11.90	23.9	Wet Sample = 12.0 ppg			
06/04/2017	01:30:38	255	4.9	11.90	23.9	Dry Sample / Water Sample			
06/04/2017	01:30:39	308	4.8	11.92	24.0	Good Returns			
06/04/2017	01:31:45	474	6.2	11.99	30.7				
06/04/2017	01:33:25	341	4.9	11.97	40.9				
06/04/2017	01:35:05	29	1.1	11.68	47.6				
06/04/2017	01:36:45	56	1.8	11.64	49.6				
06/04/2017	01:38:25	446	6.2	11.76	57.4				
06/04/2017	01:40:05	467	6.2	11.95	67.7				
06/04/2017	01:41:45	431	5.8	12.04	77.5				
06/04/2017	01:43:25	86	2.1	12.11	83.7				
06/04/2017	01:45:05	80	2.1	11.94	87.3				
06/04/2017	01:46:45	77	2.2	11.82	90.9				
06/04/2017	01:48:25	70	2.0	11.81	94.2				
06/04/2017	01:50:05	60	1.8	11.84	97.4				
06/04/2017	01:51:45	171	3.5	11.92	102.3				
06/04/2017	01:53:25	346	4.8	11.98	109.4				
06/04/2017	01:55:05	319	4.8	11.92	117.4				
06/04/2017	01:56:45	336	4.8	12.00	125.3				
06/04/2017	01:58:25	351	4.8	12.03	133.3				
06/04/2017	02:00:05	335	4.8	12.01	141.2				
06/04/2017	02:01:45	328	4.8	12.02	149.2				
06/04/2017	02:03:25	328	4.8	11.99	157.1				
06/04/2017	02:05:05	344	4.8	12.01	165.1				
06/04/2017	02:06:45	319	4.8	12.04	173.0				
06/04/2017	02:08:25	336	4.9	12.01	181.0				
06/04/2017	02:08:29	325	4.9	12.03	181.3	End Lead Slurry			
06/04/2017	02:08:31	325	4.8	12.03	181.5	Reset Total, Vol = 185.03 bbl			
06/04/2017	02:10:05	385	4.9	12.84	0.6				
06/04/2017	02:11:45	494	6.3	13.29	9.2				
06/04/2017	02:12:06	487	6.3	13.35	11.4	Start Mixing Tail Slurry			
06/04/2017	02:12:08	493	6.4	13.36	11.6	Wet Sample = 13.5 ppg			
06/04/2017	02:12:10	486	6.3	13.36	11.9	Good Returns			
06/04/2017	02:13:25	667	7.7	13.57	20.4				
06/04/2017	02:15:05	657	7.8	13.69	33.3				
06/04/2017	02:16:45	668	7.6	13.71	46.1				
06/04/2017	02:18:25	621	7.7	13.63	59.0				
06/04/2017	02:20:05	642	7.6	13.63	71.9				
06/04/2017	02:21:45	622	7.8	13.60	84.7				
06/04/2017	02:23:25	533	7.7	13.57	97.5				

Well			Field	Job Start		Customer		Job Number	
BUTTERBALL 24C-34HZ 0			WATTENBERG		Jun/03/2017		Anadarko		DMBW-01017
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
06/04/2017	02:26:45	575	7.6	13.45	122.9				
06/04/2017	02:28:25	618	7.5	13.48	135.5				
06/04/2017	02:30:05	625	7.6	13.56	148.1				
06/04/2017	02:31:45	636	7.7	13.67	160.2				
06/04/2017	02:33:25	611	7.6	13.65	172.8				
06/04/2017	02:35:05	640	7.6	13.66	185.4				
06/04/2017	02:36:45	617	7.6	13.61	198.1				
06/04/2017	02:38:25	625	7.6	13.59	210.8				
06/04/2017	02:40:05	623	7.6	13.58	223.4				
06/04/2017	02:41:45	611	7.6	13.57	236.1				
06/04/2017	02:43:25	633	7.6	13.61	248.7				
06/04/2017	02:45:05	623	7.6	13.65	261.4				
06/04/2017	02:46:45	613	7.6	13.62	274.0				
06/04/2017	02:48:25	627	7.6	13.64	286.6				
06/04/2017	02:50:05	629	7.6	13.61	299.3				
06/04/2017	02:51:45	603	7.6	13.57	311.9				
06/04/2017	02:53:25	620	7.5	13.63	324.6				
06/04/2017	02:54:07	326	5.3	13.61	329.7	End Tail Slurry			
06/04/2017	02:55:03	38	0.0	2.35	333.9	Reset Total, Vol = 331.14 bbl			
06/04/2017	02:55:05	34	0.0	0.36	333.9				
06/04/2017	02:55:08	30	0.0	0.03	333.9	Drop Top Plug			
06/04/2017	02:56:45	14	0.5	14.50	334.5				
06/04/2017	02:58:25	14	0.4	14.51	335.2				
06/04/2017	03:00:05	14	0.4	14.51	335.9				
06/04/2017	03:01:45	35	0.3	9.36	0.3				
06/04/2017	03:03:25	78	2.6	9.43	3.8				
06/04/2017	03:05:05	31	1.6	8.32	6.8				
06/04/2017	03:06:45	5	0.2	8.33	8.0				
06/04/2017	03:08:25	5	0.2	8.32	8.3				
06/04/2017	03:10:05	36	2.1	8.36	10.6				
06/04/2017	03:11:45	31	1.7	8.32	13.2				
06/04/2017	03:13:25	35	1.9	8.32	16.3				
06/04/2017	03:15:05	4	0.0	8.38	0.0				
06/04/2017	03:16:45	99	4.8	8.63	7.0				
06/04/2017	03:18:25	17	1.8	8.36	10.5				
06/04/2017	03:20:05	109	4.8	8.34	15.2				
06/04/2017	03:21:45	179	6.3	8.33	24.6				
06/04/2017	03:23:25	253	7.5	8.32	35.2				
06/04/2017	03:25:05	252	7.6	8.32	47.8				
06/04/2017	03:26:45	787	7.5	8.31	60.3				
06/04/2017	03:28:25	912	7.4	8.31	72.8				
06/04/2017	03:30:05	1044	7.4	8.31	85.1				
06/04/2017	03:31:45	1213	7.4	8.31	97.3				
06/04/2017	03:33:25	1375	7.4	8.31	109.6				
06/04/2017	03:35:05	1547	7.3	8.31	121.8				
06/04/2017	03:36:45	1733	7.3	8.31	134.0				
06/04/2017	03:38:25	1930	7.3	8.31	146.2				
06/04/2017	03:40:05	2138	7.3	8.30	158.4				
06/04/2017	03:41:45	2315	7.2	8.30	170.5				
06/04/2017	03:43:25	2484	7.3	8.30	182.7				
06/04/2017	03:45:05	2535	7.2	8.31	194.7				
06/04/2017	03:46:45	2333	6.0	8.30	204.9				
06/04/2017	03:48:25	2376	6.0	8.30	214.9				
06/04/2017	03:50:05	2432	6.0	8.30	224.9				

Well			Field	Job Start		Customer		Job Number
BUTTERBALL 24C-34HZ 0			WATTENBERG	Jun/03/2017		Anadarko		DMBW-01017
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
06/04/2017	03:53:25	2508	6.0	8.30	244.8			
06/04/2017	03:55:05	2536	6.0	8.31	254.8			
06/04/2017	03:56:45	2572	6.0	8.31	264.7			
06/04/2017	03:58:25	2633	6.0	8.31	274.7			
06/04/2017	04:00:05	2654	6.0	8.31	284.7			
06/04/2017	04:01:45	2717	6.0	8.31	294.6			
06/04/2017	04:03:25	2718	6.0	8.30	304.6			
06/04/2017	04:05:05	2775	6.0	8.30	314.5			
06/04/2017	04:06:45	2775	6.0	8.30	324.4			
06/04/2017	04:08:25	2814	6.0	8.30	334.4			
06/04/2017	04:10:05	2577	4.7	8.30	343.3			
06/04/2017	04:11:45	2629	4.7	8.30	351.1			
06/04/2017	04:13:25	2411	3.3	8.30	358.2			
06/04/2017	04:15:05	2251	2.4	8.30	362.6			
06/04/2017	04:16:45	2232	2.1	8.30	366.5			
06/04/2017	04:18:25	2268	2.1	8.30	370.0			
06/04/2017	04:20:05	2018	0.1	8.30	371.2			
06/04/2017	04:21:45	2070	0.1	8.30	371.4			
06/04/2017	04:23:25	2543	0.9	8.30	372.0			
06/04/2017	04:24:12	3028	0.9	8.30	372.7	Bump Top Plug		
06/04/2017	04:24:16	3045	0.5	8.30	372.8	Pressure Test Casing		
06/04/2017	04:25:05	3054	0.1	8.30	372.9			
06/04/2017	04:26:45	3074	0.1	8.30	373.1			
06/04/2017	04:28:25	3111	0.1	8.30	373.3			
06/04/2017	04:30:05	3146	0.1	8.30	373.5			
06/04/2017	04:31:45	3177	0.1	8.30	373.7			
06/04/2017	04:33:25	3208	0.1	8.30	373.9			
06/04/2017	04:35:05	3239	0.1	8.30	374.1			
06/04/2017	04:36:45	3275	0.1	8.30	374.3			
06/04/2017	04:38:25	3299	0.1	8.30	374.5			
06/04/2017	04:40:03	3331	0.1	8.30	374.7	Check Floats = Good		
06/04/2017	04:40:05	3334	0.1	8.30	374.7			
06/04/2017	04:40:09	3334	0.1	8.30	374.7	Reset Total, Vol = 364.42 bbl		
06/04/2017	04:41:45	15	0.1	8.30	374.9			
06/04/2017	04:43:25	15	0.1	8.30	375.1			
06/04/2017	04:45:05	14	0.1	8.30	375.3			
06/04/2017	04:46:45	14	0.1	8.30	375.5			
06/04/2017	04:48:25	13	0.1	8.30	375.6			
06/04/2017	04:50:05	13	0.1	8.30	375.8			
06/04/2017	04:51:45	12	0.1	8.30	376.0			
06/04/2017	04:53:25	10	0.1	8.30	376.2			
06/04/2017	04:55:05	10	0.1	8.30	376.4			
06/04/2017	04:56:45	10	0.1	8.30	376.6			
06/04/2017	04:58:25	13	0.1	8.30	376.8			
06/04/2017	05:00:05	11	0.1	8.30	377.0			
06/04/2017	05:01:45	14	0.1	8.30	0.1			
06/04/2017	05:02:47	45	0.3	8.30	0.2	Open Sleeve		
06/04/2017	05:03:25	1082	2.2	8.30	1.4			
06/04/2017	05:05:05	3910	2.2	8.30	5.1			
06/04/2017	05:06:45	2005	0.1	8.30	7.0			
06/04/2017	05:08:25	2097	1.6	8.30	7.6			
06/04/2017	05:10:05	1666	0.1	8.30	9.5			
06/04/2017	05:11:45	13	0.1	8.30	9.7			

<b>Well</b> BUTTERBALL 24C-34HZ 0	<b>Field</b> WATTENBERG	<b>Job Start</b> Jun/03/2017	<b>Customer</b> Anadarko	<b>Job Number</b> DMBW-01017
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.9	N2	Mud	Maximum Rate 8.6		Total Slurry 510.2	Mud 0.0	Spacer 82.8	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 6104	Final 12	Average 1029	Bump Plug to 3000	Breakdown	Type		Volume bbl		Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 493.0 bbl		Displacement 364.5 bbl		Mix Water Temp 71 degF		Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl
								Washed Thru Perfs <input type="checkbox"/>		To ft
Customer or Authorized Representative Will Turner				Schlumberger Supervisor Charles Rogers // Drew Dansie				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-