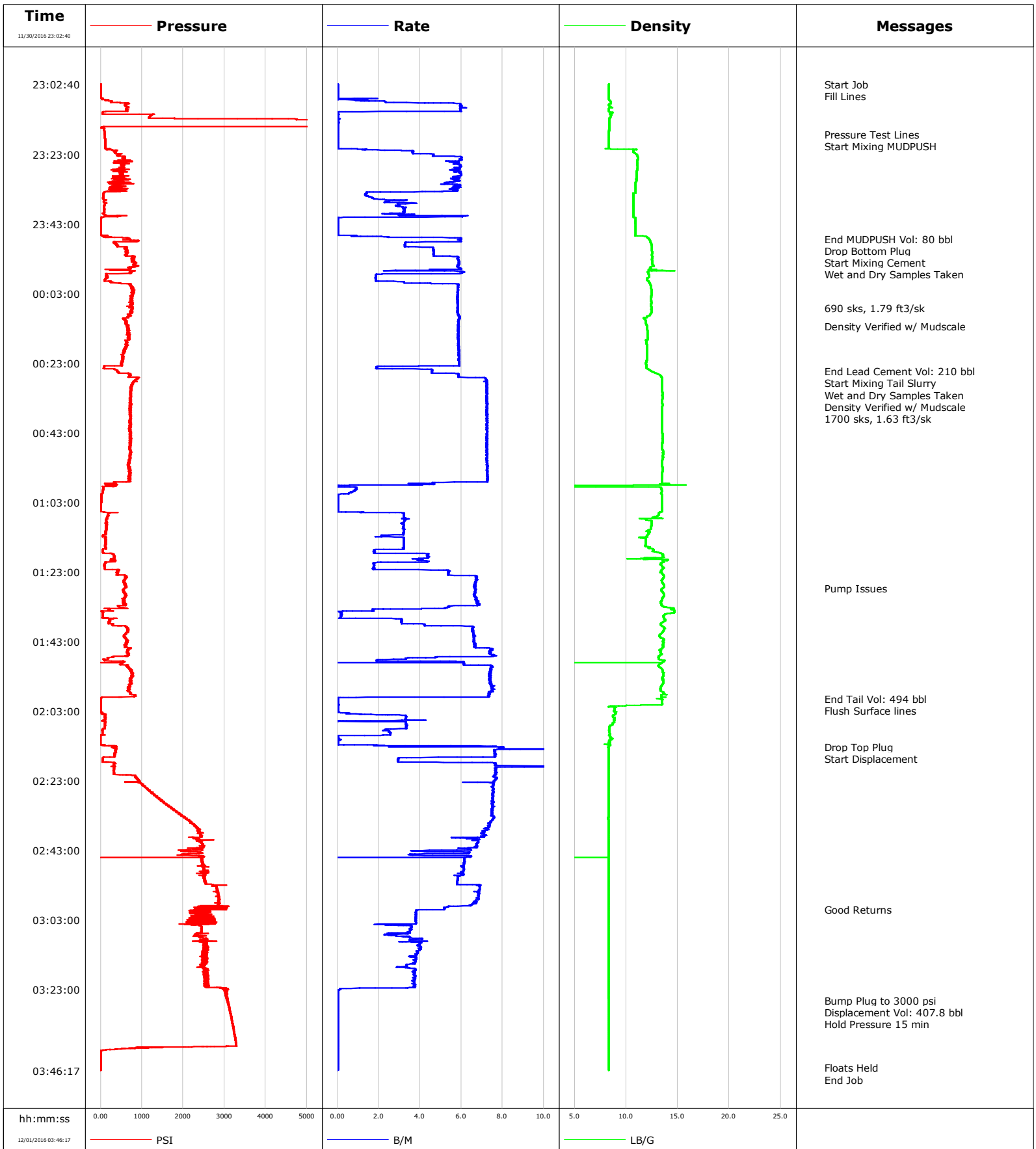


Well	JZM 30N-3HZ	Client	ANADARKO - USL - ROCKIES
Field	Wattenberg	SIR No.	DDGG-00646
Engineer	Billy Barg	Job Type	Production
Country	United States	Job Date	11-30-2016



				Customer			Job Number			
				ANADARKO - USL - ROCKIES			DDGG-00646			
Well		Location (legal)			Schlumberger Location			Job Start		
JZM 30N-3HZ					Cheyenne, WY			Nov/30/2016		
Field		Formation Name/Type			Deviation	Bit Size	Well MD		Well TVD	
Wattenberg					deg	8.5 in	17552.0 ft		7497.0 ft	
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado			psi	230 degF	229 degF	lb/gal		
Well Master		API/UWI								
631662983		4939035								
Rig Name	Drilled For		Service Via		Casing/Liner					
Extreme 22	Oil		Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class		Well Type		2250.0	9.6	36.0	J-55	LTC	
	New		Development		17541.0	5.5	17.0	HCP-110	LTC	
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
OBM		9.50 lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type									
Cementing	Production									
Max. Allowed Tub. Press	Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole					
psi	psi		5.5" LTC		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions	ft	ft						ft		
Cement 5.5" Production Casing	ft	ft						ft	Diameter	
9 5/8" 36# Previous Casing: 2250'	ft	ft						in		
8.5" tp TD// OH Excess 4%										
Est Top of Lead Cement: 1000'										
Est Top of Tail Cement: 6000'										
TD: 17552' (7497')										
Casing/Tubing Secured	<input checked="" type="checkbox"/>	1 Hole Vol. Circulated prior to Cement	<input checked="" type="checkbox"/>	Casing Tools			Squeeze Job			
Lift Pressure	12551 psi			Shoe Type		Float		Squeeze Type		
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated		<input type="checkbox"/>	Shoe Depth		17541.0 ft		Tool Type	
No. Centralizers	Top Plugs	1	Bottom Plugs	1	Stage Tool Type		Tool Depth			
Cement Head Type	Double			Stage Tool Depth		ft		Tail Pipe Size		
Job Scheduled For	Arrived on Location		Leave Location		Collar Type		Float		Tail Pipe Depth	
Nov/30/2016 17:00	Nov/30/2016 17:00		Dec/01/2016 05:00		Collar Depth		17539.4 ft		Sqz. Total Vol.	
									bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/30/2016	23:02:40	2	0.0	8.34	0.0	Started Acquisition				
11/30/2016	23:02:44	2	0.0	8.33	0.0	Start Job				
11/30/2016	23:04:20	1	0.0	8.34	0.0					
11/30/2016	23:06:00	9	0.0	8.35	0.0					
11/30/2016	23:07:40	254	2.3	8.49	0.9					
11/30/2016	23:09:20	660	6.0	8.47	9.3					
11/30/2016	23:11:00	42	0.0	8.59	16.7					
11/30/2016	23:12:40	4154	0.1	8.39	16.7					
11/30/2016	23:14:20	5136	0.0	8.36	16.8					
11/30/2016	23:16:00	79	0.0	8.35	16.8					
11/30/2016	23:17:11	96	0.0	8.34	16.8	Pressure Test Lines				
11/30/2016	23:17:21	99	0.0	8.34	16.8	Start Mixing MUDPUSH				
11/30/2016	23:17:40	103	0.0	8.34	16.8					
11/30/2016	23:19:20	112	0.0	8.34	16.8					
11/30/2016	23:21:00	114	0.0	8.32	16.8					
11/30/2016	23:22:40	506	3.7	10.92	20.8					
11/30/2016	23:24:20	565	6.0	11.14	29.7					
11/30/2016	23:26:00	487	6.0	11.08	39.3					
11/30/2016	23:27:40	502	5.9	11.03	49.1					
11/30/2016	23:29:20	522	5.7	10.99	58.9					
11/30/2016	23:31:00	231	5.3	10.92	68.4					

Well		Field		Job Start		Customer		Job Number	
JZM 30N-3HZ		Wattenberg		Nov/30/2016		ANADARKO - USL - ROCKIES		DDGG-00646	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/30/2016	23:34:20	66	1.4	10.70	84.4				
11/30/2016	23:36:00	134	2.7	10.71	87.1				
11/30/2016	23:37:40	89	2.8	10.71	91.9				
11/30/2016	23:39:20	82	3.2	10.71	97.2				
11/30/2016	23:41:00	21	0.5	10.72	103.3				
11/30/2016	23:42:40	9	0.0	10.90	103.3				
11/30/2016	23:44:20	7	0.0	10.90	103.3				
11/30/2016	23:46:00	2	0.0	10.89	103.3				
11/30/2016	23:47:13	701	6.0	12.21	106.9	End MUDPUSH Vol: 80 bbl			
11/30/2016	23:47:39	905	6.0	12.29	109.4	Drop Bottom Plug			
11/30/2016	23:47:40	931	5.9	12.30	109.5				
11/30/2016	23:47:49	900	5.9	12.32	110.4	Start Mixing Cement			
11/30/2016	23:49:20	390	3.3	12.47	116.1				
11/30/2016	23:51:00	627	4.6	12.52	123.6				
11/30/2016	23:51:58	629	4.7	12.51	128.1	Wet and Dry Samples Taken			
11/30/2016	23:52:40	769	5.8	12.53	131.9				
11/30/2016	23:54:20	817	5.9	12.54	141.7				
11/30/2016	23:56:00	664	4.8	12.31	151.4				
11/30/2016	23:57:40	155	1.9	12.20	158.9				
11/30/2016	23:59:20	106	1.9	12.16	162.0				
12/01/2016	00:01:00	758	5.8	12.41	169.9				
12/01/2016	00:02:40	795	5.8	12.44	179.6				
12/01/2016	00:04:20	771	5.8	12.41	189.3				
12/01/2016	00:06:00	763	5.8	12.41	199.0				
12/01/2016	00:07:03	787	5.8	12.44	205.1	690 sks, 1.79 ft3/sk			
12/01/2016	00:07:40	746	5.8	12.42	208.7				
12/01/2016	00:09:20	733	5.9	12.13	218.4				
12/01/2016	00:11:00	605	5.8	11.91	228.2				
12/01/2016	00:12:15	661	5.9	12.00	235.5	Density Verified w/ Mudscale			
12/01/2016	00:12:40	637	5.9	12.02	238.0				
12/01/2016	00:14:20	654	5.9	12.04	247.7				
12/01/2016	00:16:00	688	5.8	12.09	257.4				
12/01/2016	00:17:40	635	5.9	12.00	267.2				
12/01/2016	00:19:20	600	5.9	12.02	277.0				
12/01/2016	00:21:00	521	5.9	12.00	286.7				
12/01/2016	00:22:40	528	5.9	11.94	296.5				
12/01/2016	00:24:20	74	1.9	11.98	304.1				
12/01/2016	00:25:13	391	4.6	12.42	307.5	End Lead Cement Vol: 210 bbl			
12/01/2016	00:25:31	432	4.6	12.65	308.8	Start Mixing Tail Slurry			
12/01/2016	00:26:00	703	5.9	13.04	311.2				
12/01/2016	00:27:40	859	7.2	13.49	321.8				
12/01/2016	00:29:20	756	7.2	13.51	333.9				
12/01/2016	00:31:00	723	7.2	13.51	345.9				
12/01/2016	00:31:59	736	7.2	13.52	353.0	Wet and Dry Samples Taken			
12/01/2016	00:32:09	728	7.2	13.51	354.2	Density Verified w/ Mudscale			
12/01/2016	00:32:40	730	7.2	13.53	357.9				
12/01/2016	00:34:11	722	7.2	13.49	368.9	1700 sks, 1.63 ft3/sk			
12/01/2016	00:34:20	728	7.2	13.50	370.0				
12/01/2016	00:36:00	719	7.2	13.49	382.1				
12/01/2016	00:37:40	707	7.3	13.51	394.1				
12/01/2016	00:39:20	719	7.3	13.51	406.2				
12/01/2016	00:41:00	717	7.2	13.48	418.2				
12/01/2016	00:42:40	712	7.2	13.50	430.3				
12/01/2016	00:44:20	723	7.2	13.52	442.3				

Well		Field		Job Start		Customer		Job Number	
JZM 30N-3HZ		Wattenberg		Nov/30/2016		ANADARKO - USL - ROCKIES		DDGG-00646	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/01/2016	00:47:40	710	7.2	13.49	466.4				
12/01/2016	00:49:20	730	7.2	13.56	478.5				
12/01/2016	00:51:00	690	7.2	13.49	490.5				
12/01/2016	00:52:40	694	7.3	13.51	502.6				
12/01/2016	00:54:20	714	7.3	13.51	514.7				
12/01/2016	00:56:00	684	7.3	13.47	526.8				
12/01/2016	00:57:40	360	4.5	13.52	537.4				
12/01/2016	00:59:20	63	0.9	13.42	539.5				
12/01/2016	01:01:00	12	0.0	13.44	540.3				
12/01/2016	01:02:40	12	0.0	13.46	540.3				
12/01/2016	01:04:20	10	0.0	13.47	540.3				
12/01/2016	01:06:00	209	3.2	13.15	540.9				
12/01/2016	01:07:40	154	3.2	11.48	546.3				
12/01/2016	01:09:20	137	3.2	12.43	551.7				
12/01/2016	01:11:00	123	3.2	12.15	557.0				
12/01/2016	01:12:40	59	2.1	11.99	561.9				
12/01/2016	01:14:20	115	3.2	11.92	567.0				
12/01/2016	01:16:00	121	3.2	12.18	572.3				
12/01/2016	01:17:40	287	4.3	13.41	576.1				
12/01/2016	01:19:20	351	4.1	11.67	583.3				
12/01/2016	01:21:00	91	1.8	13.39	588.2				
12/01/2016	01:22:40	423	5.4	13.38	592.3				
12/01/2016	01:24:20	631	6.7	13.65	601.8				
12/01/2016	01:26:00	586	6.7	13.49	613.0				
12/01/2016	01:27:37	592	6.7	13.54	623.8	Pump Issues			
12/01/2016	01:27:40	591	6.7	13.53	624.1				
12/01/2016	01:29:20	593	6.6	13.64	635.2				
12/01/2016	01:31:00	555	6.7	13.43	646.3				
12/01/2016	01:32:40	419	5.8	13.44	657.6				
12/01/2016	01:34:20	53	0.1	14.71	663.4				
12/01/2016	01:36:00	56	0.2	13.69	663.7				
12/01/2016	01:37:40	187	3.1	13.41	667.9				
12/01/2016	01:39:20	654	6.6	13.62	676.7				
12/01/2016	01:41:00	603	6.6	13.26	687.7				
12/01/2016	01:42:40	627	6.6	13.57	698.7				
12/01/2016	01:44:20	600	6.6	13.59	709.7				
12/01/2016	01:46:00	645	7.4	13.29	721.7				
12/01/2016	01:47:40	175	3.4	13.15	733.1				
12/01/2016	01:49:20	503	6.1	13.33	739.9				
12/01/2016	01:51:00	729	7.4	13.49	751.8				
12/01/2016	01:52:40	742	7.4	13.61	764.1				
12/01/2016	01:54:20	718	7.4	13.58	776.4				
12/01/2016	01:56:00	658	7.5	13.35	788.8				
12/01/2016	01:57:40	716	7.4	13.63	801.3				
12/01/2016	01:59:20	9	0.0	13.14	810.8				
12/01/2016	01:59:21	9	0.0	13.34	810.8	End Tail Vol: 494 bbl			
12/01/2016	01:59:29	9	0.0	13.30	810.8	Flush Surface lines			
12/01/2016	02:01:00	6	0.1	13.54	810.8				
12/01/2016	02:02:40	9	0.0	8.83	810.9				
12/01/2016	02:04:20	114	3.3	8.73	812.4				
12/01/2016	02:06:00	114	3.0	8.82	817.0				
12/01/2016	02:07:40	102	3.3	8.38	822.6				
12/01/2016	02:09:20	45	2.6	8.40	827.0				
12/01/2016	02:11:00	-5	0.1	8.61	828.6				

Well			Field		Job Start	Customer	Job Number
JZM 30N-3HZ			Wattenberg		Nov/30/2016	ANADARKO - USL - ROCKIES	DDGG-00646
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
12/01/2016	02:13:10	389	2.5	8.30	830.7	Drop Top Plug	
12/01/2016	02:13:12	373	7.9	8.29	830.9	Start Displacement	
12/01/2016	02:14:20	366	7.6	8.30	840.0		
12/01/2016	02:16:00	343	7.6	8.28	852.7		
12/01/2016	02:17:40	77	4.3	8.27	858.9		
12/01/2016	02:19:20	333	7.6	8.27	874.5		
12/01/2016	02:21:00	334	7.7	8.27	887.3		
12/01/2016	02:22:40	887	7.6	8.26	900.0		
12/01/2016	02:24:20	1039	7.5	8.27	912.5		
12/01/2016	02:26:00	1178	7.5	8.27	925.1		
12/01/2016	02:27:40	1381	7.5	8.26	937.6		
12/01/2016	02:29:20	1531	7.5	8.26	950.2		
12/01/2016	02:31:00	1724	7.4	8.26	962.7		
12/01/2016	02:32:40	1959	7.5	8.26	975.1		
12/01/2016	02:34:20	2119	7.5	8.26	987.7		
12/01/2016	02:36:00	2290	7.3	8.27	1000.0		
12/01/2016	02:37:40	2409	7.0	8.26	1012.0		
12/01/2016	02:39:20	2270	5.5	8.26	1023.8		
12/01/2016	02:41:00	2453	6.8	8.26	1034.9		
12/01/2016	02:42:40	2453	6.4	8.26	1045.9		
12/01/2016	02:44:20	1960	3.6	8.27	1054.6		
12/01/2016	02:46:00	2460	6.1	8.26	1064.6		
12/01/2016	02:47:40	2479	6.1	8.26	1074.8		
12/01/2016	02:49:20	2490	6.1	8.27	1084.9		
12/01/2016	02:51:00	2533	5.8	8.27	1094.8		
12/01/2016	02:52:40	2557	5.8	8.27	1104.5		
12/01/2016	02:54:20	2812	6.9	8.27	1115.8		
12/01/2016	02:56:00	2860	6.8	8.27	1127.1		
12/01/2016	02:57:40	2879	6.7	8.27	1138.4		
12/01/2016	02:59:20	2613	5.2	8.27	1149.0		
12/01/2016	03:00:00	2289	5.2	8.27	1152.5	Good Returns	
12/01/2016	03:01:00	2573	3.8	8.27	1156.4		
12/01/2016	03:02:40	2739	3.8	8.27	1162.7		
12/01/2016	03:04:20	2423	3.0	8.27	1168.8		
12/01/2016	03:06:00	2444	3.5	8.27	1174.5		
12/01/2016	03:07:40	2387	3.0	8.28	1179.7		
12/01/2016	03:09:20	2551	3.6	8.28	1185.7		
12/01/2016	03:11:00	2486	4.0	8.28	1192.3		
12/01/2016	03:12:40	2518	3.9	8.28	1198.9		
12/01/2016	03:14:20	2573	3.8	8.29	1205.1		
12/01/2016	03:16:00	2452	3.3	8.29	1211.2		
12/01/2016	03:17:40	2600	3.7	8.29	1217.0		
12/01/2016	03:19:20	2576	3.8	8.29	1223.2		
12/01/2016	03:21:00	2529	3.7	8.29	1229.4		
12/01/2016	03:22:40	3091	0.4	8.30	1235.3		
12/01/2016	03:24:20	3070	0.0	8.30	1235.4		
12/01/2016	03:26:00	3058	0.0	8.30	1235.4		
12/01/2016	03:26:09	3074	0.0	8.30	1235.4	Bump Plug to 3000 psi	
12/01/2016	03:26:10	3084	0.0	8.30	1235.4	Displacement Vol: 407.8 bbl	
12/01/2016	03:26:19	3077	0.0	8.30	1235.4	Hold Pressure 15 min	
12/01/2016	03:27:40	3098	0.0	8.30	1235.4		
12/01/2016	03:29:20	3134	0.0	8.31	1235.4		
12/01/2016	03:31:00	3165	0.0	8.31	1235.4		
12/01/2016	03:32:40	3192	0.0	8.31	1235.4		

Well		Field		Job Start		Customer		Job Number	
JZM 30N-3HZ		Wattenberg		Nov/30/2016		ANADARKO - USL - ROCKIES		DDGG-00646	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/01/2016	03:36:00	3244	0.0	8.31	1235.4				
12/01/2016	03:37:40	3267	0.0	8.32	1235.4				
12/01/2016	03:39:20	3048	0.0	8.32	1235.4				
12/01/2016	03:41:00	0	0.0	8.32	1235.4				
12/01/2016	03:42:40	1	0.0	8.32	1235.4				
12/01/2016	03:44:20	1	0.0	8.32	1235.4				
12/01/2016	03:45:29	1	0.0	8.32	1235.4	Floats Held			
12/01/2016	03:45:35	1	0.0	8.32	1235.4	End Job			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
5.3			20.6	704.0	0.0	80.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
5251	1	1028	3000			bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume			
%	713.5 bbl	407.8 bbl	85 degF	<input type="checkbox"/>	bbl			
				Washed Thru Perfs	To			
				<input type="checkbox"/>	ft			
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	Job Completed			
Albert Bryan	Billy Barg			<input type="checkbox"/>	<input checked="" type="checkbox"/>			
				-	-			