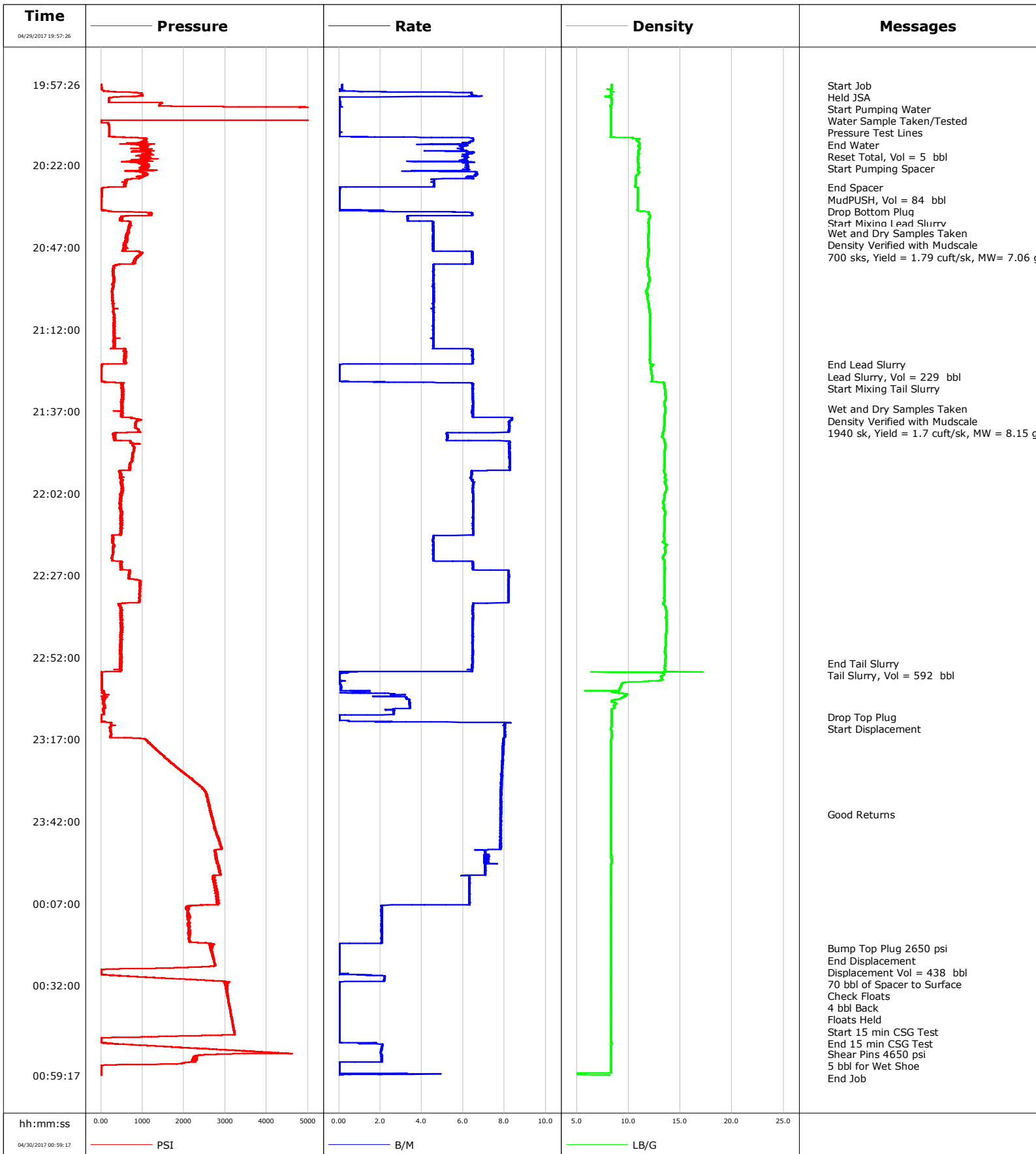


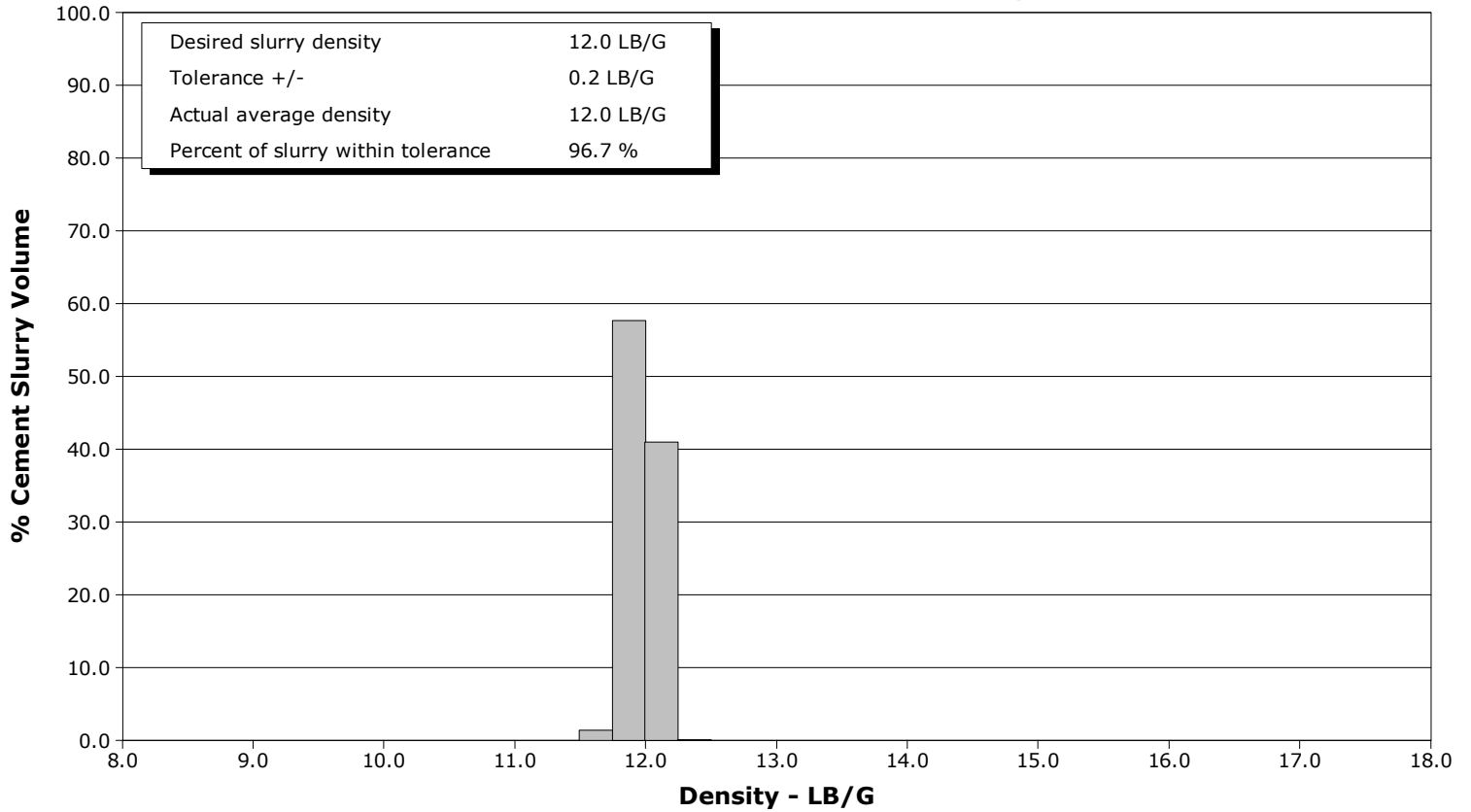
Well	SS Minnow 14N2-14HZ	Client	Anadarko
Field	Wattenberg	SIR No.	DMBW-00868
Engineer	Ryan Call	Job Type	5.5" Production
Country	United States	Job Date	04-29-2017



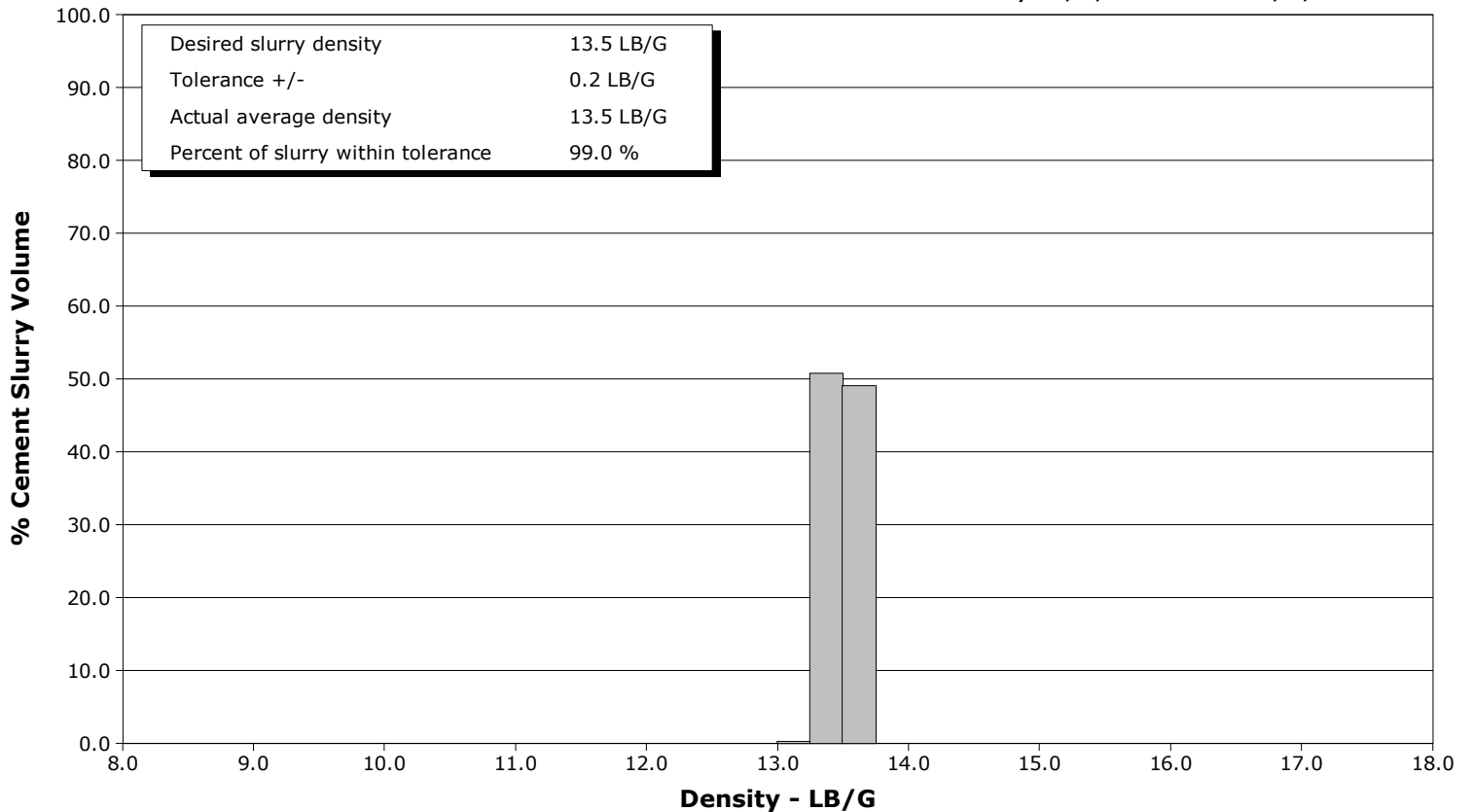
Well SS Minnow 14N2-14HZ
Field Wattenberg
Engineer Ryan Call
Country United States

Client Anadarko
SIR No. DMBW-00868
Job Type 5.5" Production
Job Date 04-29-2017

Lead Slurry - 04/29/2017 20:36:37 to 04/29/2017 21:22:42



Tail Slurry - 04/29/2017 21:28:45 to 04/29/2017 22:53:55



				Customer			Job Number		
				Anadarko			DMBW-00868		
Well		Location (legal)		Schlumberger Location		Job Start			
SS Minnow 14N2-14HZ		P564		CWY		Apr/29/2017			
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD		
Wattenberg				deg	8.5 in	19753.0 ft	71945.0 ft		
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient		
Weld		CP		psi	226 degF	225 degF	lb/gal		
Well Master		API/UWI							
0631713359		05123441710000							
Rig Name	Drilled For	Service Via	Casing/Liner						
P564	Oil & Gas	Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Offshore Zone	Well Class	Well Type	2400.0	9.6	36.0	J-55	8 RD		
	New	Development	19753.0	5.5	20.0	P-110	8 RD		
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe					
OBM		9.70 lb/gal	cP	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type								
Cementing	5.5" Production								
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole						
psi	psi	5.5" Double Plug	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval		
			ft	ft			ft		
			ft	ft			Diameter		
			ft	ft			in		
Service Instructions		Treat Down	Displacement		Packer Type	Packer Depth			
9 5/8" 36# Previous Casing: 2,400 8 1/2" to TD // OH Excess: 4% Top of Lead Cement: 1,000' Top of Tail Cement: 6,000' TD: 19,753' (7,117') Temp Gradient 2.3 degF/100ft from Gradient Map -- Bring 5 1/2" Head (Double Plug), Bowls, SLB Top and Bottom Plugs (For Backup Only) --Bring Defoamer, 400 lbs Sugar, and CemPRIME SCRUB Surfactant and Fiber			438.0 bbl			ft			
		Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.				
		bbl	bbl	824.0 bbl	bbl				
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement	Casing Tools			Squeeze Job			
<input type="checkbox"/>		<input type="checkbox"/>							
Lift Pressure		Shoe Type	Shoe Depth		Squeeze Type				
psi		Float	19754.0 ft						
Pipe Rotated		Pipe Reciprocated	Stage Tool Type			Tool Depth			
<input type="checkbox"/>		<input type="checkbox"/>				ft			
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Depth			Tail Pipe Size		
		1	1	ft			in		
Cement Head Type		Job Scheduled For	Arrived on Location	Leave Location	Collar Type		Tail Pipe Depth		
Double		Apr/29/2017 16:00	Apr/29/2017 16:00	Apr/29/2017	Float		ft		
		Collar Depth	Sqz. Total Vol.						
		19708.0 ft	bbl						
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
04/29/2017	19:57:26	5	0.2	8.36	0.0	Started Acquisition			
04/29/2017	19:57:36	6	0.1	8.36	0.0	Start Job			
04/29/2017	19:57:43	5	0.2	8.36	0.0	Held JSA			
04/29/2017	19:57:46	4	0.2	8.36	0.1	Start Pumping Water			
04/29/2017	19:57:47	4	0.2	8.36	0.1	Water Sample Taken/Tested			
04/29/2017	19:58:15	10	0.2	8.36	0.1	Pressure Test Lines			
04/29/2017	19:59:26	63	0.0	8.33	0.3				
04/29/2017	20:01:26	234	0.0	8.31	9.6				
04/29/2017	20:03:26	1421	0.1	8.36	9.7				
04/29/2017	20:05:26	5431	0.0	8.34	9.8				
04/29/2017	20:07:26	5397	0.0	8.34	9.8				
04/29/2017	20:09:26	179	0.0	8.35	9.8				
04/29/2017	20:09:42	183	0.0	8.35	9.8	End Water			
04/29/2017	20:09:43	183	0.0	8.35	9.8	Reset Total, Vol = 5 bbl			
04/29/2017	20:11:26	199	0.0	8.35	0.0				
04/29/2017	20:13:26	327	1.0	8.27	0.2				
04/29/2017	20:13:46	993	6.4	10.41	1.6	Start Pumping Spacer			
04/29/2017	20:15:26	1013	6.2	11.04	12.3				
04/29/2017	20:17:26	994	6.0	10.96	24.0				
04/29/2017	20:19:26	1069	6.2	10.92	36.3				
04/29/2017	20:21:26	1017	6.2	10.97	48.2				

Well			Field		Job Start	Customer		Job Number
SS Minnow 14N2-14HZ			Wattenberg		Apr/29/2017	Anadarko		DMBW-00868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
04/29/2017	20:25:26	1043	6.2	10.73	73.0			
04/29/2017	20:27:26	607	4.6	10.70	83.5			
04/29/2017	20:28:51	75	0.0	10.91	89.2	End Spacer		
04/29/2017	20:29:01	29	0.0	10.90	89.2	MudPUSH, Vol = 84 bbl		
04/29/2017	20:29:26	17	0.0	10.90	89.2			
04/29/2017	20:29:57	15	0.0	10.91	89.3	Drop Bottom Plug		
04/29/2017	20:31:26	12	0.0	10.91	89.3			
04/29/2017	20:33:26	10	0.0	10.88	89.4			
04/29/2017	20:35:26	9	0.0	10.84	89.4			
04/29/2017	20:36:37	1200	6.4	11.97	92.6	Start Mixing Lead Slurry		
04/29/2017	20:37:26	687	3.7	12.05	97.7			
04/29/2017	20:39:26	708	4.6	11.94	104.8			
04/29/2017	20:41:26	670	4.5	11.97	113.9			
04/29/2017	20:42:43	671	4.6	11.97	119.8	Wet and Dry Samples Taken		
04/29/2017	20:42:44	674	4.6	11.97	119.8	Density Verified with Mudscale		
04/29/2017	20:43:20	610	4.6	11.90	122.6	700 sks, Yield = 1.79 cuft/sk, MW= 7.06 gal/sk		
04/29/2017	20:43:26	641	4.6	11.90	123.0			
04/29/2017	20:45:26	588	4.6	11.89	132.1			
04/29/2017	20:47:26	601	4.6	11.94	141.2			
04/29/2017	20:49:26	930	6.4	11.91	152.6			
04/29/2017	20:51:26	799	6.5	11.80	165.4			
04/29/2017	20:53:26	290	4.6	11.87	176.0			
04/29/2017	20:55:26	299	4.6	11.93	185.1			
04/29/2017	20:57:26	296	4.6	12.00	194.3			
04/29/2017	20:59:26	290	4.6	11.83	203.4			
04/29/2017	21:01:26	269	4.6	11.88	212.6			
04/29/2017	21:03:26	274	4.6	11.89	221.7			
04/29/2017	21:05:26	290	4.6	11.97	230.8			
04/29/2017	21:07:26	304	4.6	12.10	240.0			
04/29/2017	21:09:26	316	4.6	12.11	249.1			
04/29/2017	21:11:26	315	4.6	12.06	258.2			
04/29/2017	21:13:26	328	4.6	12.07	267.4			
04/29/2017	21:15:26	303	4.6	12.09	276.5			
04/29/2017	21:17:26	310	4.6	12.08	285.6			
04/29/2017	21:19:26	558	6.4	12.04	297.5			
04/29/2017	21:21:26	581	6.5	12.04	310.4			
04/29/2017	21:22:42	30	0.1	12.33	318.0	End Lead Slurry		
04/29/2017	21:22:48	23	0.0	12.37	318.0	Lead Slurry, Vol = 229 bbl		
04/29/2017	21:23:26	13	0.0	12.13	318.0			
04/29/2017	21:25:26	12	0.0	12.21	318.0			
04/29/2017	21:27:26	11	0.0	12.27	318.0			
04/29/2017	21:28:45	517	6.5	13.40	321.7	Start Mixing Tail Slurry		
04/29/2017	21:29:26	526	6.5	13.48	326.2			
04/29/2017	21:31:26	528	6.4	13.55	339.1			
04/29/2017	21:33:26	519	6.5	13.57	352.0			
04/29/2017	21:35:26	516	6.4	13.51	364.9			
04/29/2017	21:36:16	493	6.5	13.52	370.3	Wet and Dry Samples Taken		
04/29/2017	21:36:17	501	6.5	13.52	370.4	1940 sk, Yield = 1.7 cuft/sk, MW = 8.15 gal/sk		
04/29/2017	21:37:26	519	6.5	13.52	377.8			
04/29/2017	21:39:26	903	8.3	13.47	391.8			
04/29/2017	21:41:26	825	8.2	13.44	408.2			
04/29/2017	21:43:26	944	8.2	13.34	424.7			
04/29/2017	21:45:26	366	5.2	13.39	435.3			
04/29/2017	21:47:26	765	8.2	13.55	450.2			

Well			Field		Job Start	Customer	Job Number
SS Minnow 14N2-14HZ			Wattenberg		Apr/29/2017	Anadarko	DMBW-00868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
04/29/2017	21:51:26	750	8.2	13.50	483.1		
04/29/2017	21:53:26	706	8.2	13.47	499.6		
04/29/2017	21:55:26	453	6.4	13.41	515.4		
04/29/2017	21:57:26	483	6.4	13.51	528.2		
04/29/2017	21:59:26	503	6.5	13.59	541.1		
04/29/2017	22:01:26	527	6.5	13.59	554.0		
04/29/2017	22:03:26	486	6.5	13.44	567.0		
04/29/2017	22:05:26	457	6.5	13.40	579.9		
04/29/2017	22:07:26	500	6.5	13.51	592.9		
04/29/2017	22:09:26	473	6.5	13.49	605.8		
04/29/2017	22:11:26	501	6.5	13.51	618.8		
04/29/2017	22:13:26	491	6.5	13.46	631.7		
04/29/2017	22:15:26	286	4.6	13.44	643.5		
04/29/2017	22:17:26	303	4.6	13.59	652.6		
04/29/2017	22:19:26	295	4.6	13.55	661.7		
04/29/2017	22:21:26	261	4.6	13.35	670.8		
04/29/2017	22:23:26	481	6.5	13.46	681.4		
04/29/2017	22:25:26	707	8.2	13.50	694.4		
04/29/2017	22:27:26	678	8.2	13.46	710.8		
04/29/2017	22:29:26	934	8.2	13.47	727.2		
04/29/2017	22:31:26	940	8.2	13.47	743.6		
04/29/2017	22:33:26	931	8.2	13.44	759.9		
04/29/2017	22:35:26	684	7.9	13.37	776.3		
04/29/2017	22:37:26	492	6.5	13.61	789.3		
04/29/2017	22:39:26	473	6.5	13.62	802.2		
04/29/2017	22:41:26	487	6.4	13.64	815.1		
04/29/2017	22:43:26	509	6.5	13.66	828.0		
04/29/2017	22:45:26	474	6.5	13.59	840.9		
04/29/2017	22:47:26	504	6.5	13.58	853.8		
04/29/2017	22:49:26	455	6.5	13.55	866.7		
04/29/2017	22:51:26	478	6.5	13.57	879.6		
04/29/2017	22:53:26	477	6.4	13.54	892.5		
04/29/2017	22:53:55	493	6.5	13.53	895.6	End Tail Slurry	
04/29/2017	22:54:05	472	6.4	13.54	896.7	Tail Slurry, Vol = 592 bbl	
04/29/2017	22:55:26	467	6.4	13.49	905.4		
04/29/2017	22:57:26	16	0.0	13.36	911.4		
04/29/2017	22:59:26	16	0.0	10.64	911.5		
04/29/2017	23:01:26	16	0.1	9.16	911.7		
04/29/2017	23:03:26	80	3.2	9.77	913.8		
04/29/2017	23:05:26	66	3.4	8.36	920.0		
04/29/2017	23:07:26	101	3.4	8.61	926.8		
04/29/2017	23:09:26	84	2.7	8.36	932.2		
04/29/2017	23:10:07	4	0.0	8.36	932.4	Drop Top Plug	
04/29/2017	23:11:10	5	0.0	8.36	932.4	Start Displacement	
04/29/2017	23:11:26	9	0.5	8.34	932.5		
04/29/2017	23:13:26	207	8.0	8.34	946.6		
04/29/2017	23:15:26	238	8.0	8.36	962.6		
04/29/2017	23:17:26	1128	7.9	8.34	978.5		
04/29/2017	23:19:26	1281	7.9	8.34	994.4		
04/29/2017	23:21:26	1455	7.9	8.34	1010.3		
04/29/2017	23:23:26	1644	7.9	8.34	1026.1		
04/29/2017	23:25:26	1812	7.9	8.34	1041.9		
04/29/2017	23:27:26	2020	7.9	8.34	1057.6		
04/29/2017	23:29:26	2217	7.8	8.34	1073.3		

Well			Field		Job Start	Customer	Job Number
SS Minnow 14N2-14HZ			Wattenberg		Apr/29/2017	Anadarko	DMBW-00868
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
04/29/2017	23:33:26	2546	7.8	8.34	1104.7		
04/29/2017	23:35:26	2573	7.8	8.34	1120.3		
04/29/2017	23:37:26	2624	7.8	8.34	1136.0		
04/29/2017	23:39:26	2655	7.8	8.34	1151.6		
04/29/2017	23:39:48	2663	7.8	8.34	1154.5	Good Returns	
04/29/2017	23:41:26	2690	7.8	8.34	1167.2		
04/29/2017	23:43:26	2737	7.8	8.34	1182.9		
04/29/2017	23:45:26	2780	7.8	8.34	1198.5		
04/29/2017	23:47:26	2835	7.8	8.34	1214.1		
04/29/2017	23:49:26	2898	7.8	8.34	1229.7		
04/29/2017	23:51:26	2751	7.1	8.34	1244.6		
04/29/2017	23:53:26	2800	7.1	8.35	1258.8		
04/29/2017	23:55:26	2846	7.1	8.34	1273.0		
04/29/2017	23:57:26	2870	7.1	8.34	1287.1		
04/29/2017	23:59:26	2700	6.3	8.34	1300.5		
04/30/2017	00:01:26	2746	6.3	8.34	1313.1		
04/30/2017	00:03:26	2788	6.3	8.34	1325.7		
04/30/2017	00:05:26	2787	6.3	8.34	1338.3		
04/30/2017	00:07:26	2406	4.1	8.34	1350.8		
04/30/2017	00:09:26	2102	2.1	8.33	1355.0		
04/30/2017	00:11:26	2130	2.1	8.34	1359.1		
04/30/2017	00:13:26	2122	2.1	8.33	1363.2		
04/30/2017	00:15:26	2110	2.1	8.33	1367.3		
04/30/2017	00:17:26	2113	2.1	8.33	1371.5		
04/30/2017	00:19:26	2612	0.0	8.34	1375.0		
04/30/2017	00:20:43	2658	0.0	8.34	1375.0	Bump Top Plug 2650 psi	
04/30/2017	00:20:44	2693	0.0	8.33	1375.0	End Displacement	
04/30/2017	00:20:48	2642	0.0	8.34	1375.0	Displacement Vol = 438 bbl	
04/30/2017	00:21:26	2672	0.0	8.34	1375.1		
04/30/2017	00:22:39	2699	0.0	8.34	1375.1	70 bbl of Spacer to Surface	
04/30/2017	00:23:26	2707	0.0	8.34	1375.1		
04/30/2017	00:25:26	2743	0.0	8.34	1375.1		
04/30/2017	00:26:25	2187	0.0	8.34	1375.1	Check Floats	
04/30/2017	00:26:26	2123	0.0	8.34	1375.1	4 bbl Back	
04/30/2017	00:27:26	1	0.0	8.34	1375.1	Floats Held	
04/30/2017	00:29:26	1085	2.2	8.33	1376.6		
04/30/2017	00:30:42	2975	2.2	8.33	1379.3	Start 15 min CSG Test	
04/30/2017	00:31:26	2993	0.0	8.33	1379.5		
04/30/2017	00:33:26	3044	0.0	8.34	1379.5		
04/30/2017	00:35:26	3062	0.0	8.33	1379.5		
04/30/2017	00:37:26	3084	0.0	8.34	1379.5		
04/30/2017	00:39:26	3115	0.0	8.34	1379.6		
04/30/2017	00:41:26	3145	0.0	8.34	1379.6		
04/30/2017	00:43:26	3174	0.0	8.34	1379.6		
04/30/2017	00:45:26	3204	0.0	8.33	1379.6		
04/30/2017	00:46:29	3219	0.0	8.34	1379.6	End 15 min CSG Test	
04/30/2017	00:47:26	1800	0.0	8.34	1379.6		
04/30/2017	00:49:26	121	0.5	8.34	1379.6		
04/30/2017	00:51:26	2786	2.1	8.33	1383.5		
04/30/2017	00:52:52	3034	2.0	8.33	1386.4	Shear Pins 4650 psi	
04/30/2017	00:53:20	2293	2.1	8.33	1387.4	5 bbl for Wet Shoe	
04/30/2017	00:53:26	2323	2.1	8.33	1387.6		
04/30/2017	00:55:26	2055	0.0	8.33	1391.4		
04/30/2017	00:57:26	0	0.0	8.33	1391.5		

Well SS Minnow 14N2-14HZ	Field Wattenberg	Job Start Apr/29/2017	Customer Anadarko	Job Number DMBW-00868
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.0	N2	Mud	Maximum Rate 8.4	Total Slurry 1392.1	Mud 0.0	Spacer 75.6	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5482	Final 1	Average 1181	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 478.2 bbl	Mix Water Temp 68 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	To ft		
				Washed Thru Perfs <input type="checkbox"/>				
Customer or Authorized Representative			Schlumberger Supervisor Ryan Call		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		