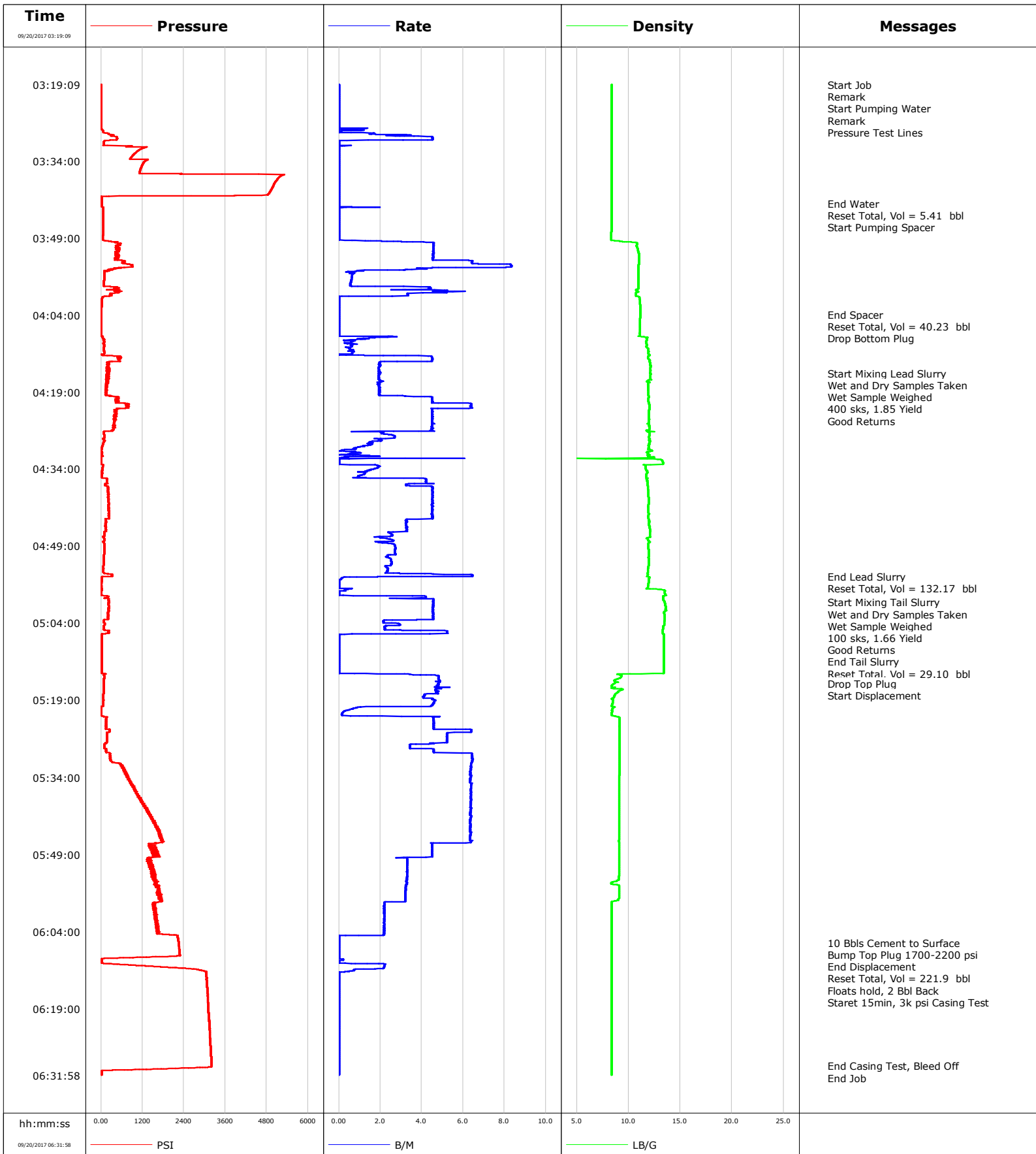


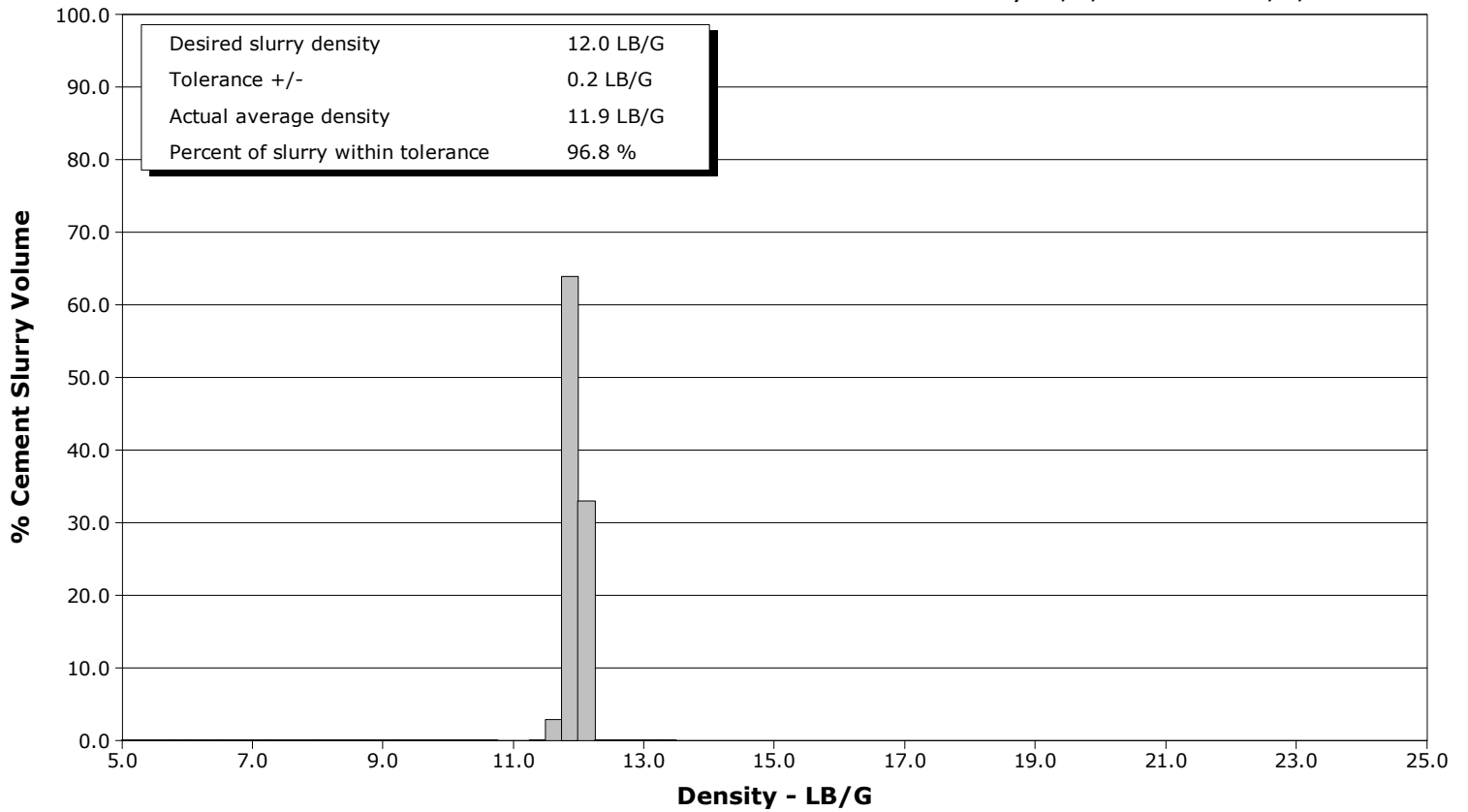
Well	Norden 2N-14HZ	Client	Anadarko
Field	Wattenberg	SIR No.	DMBW-01466
Engineer	Ryan Drilling	Job Type	7" Int.
Country	United States	Job Date	09-20-2017



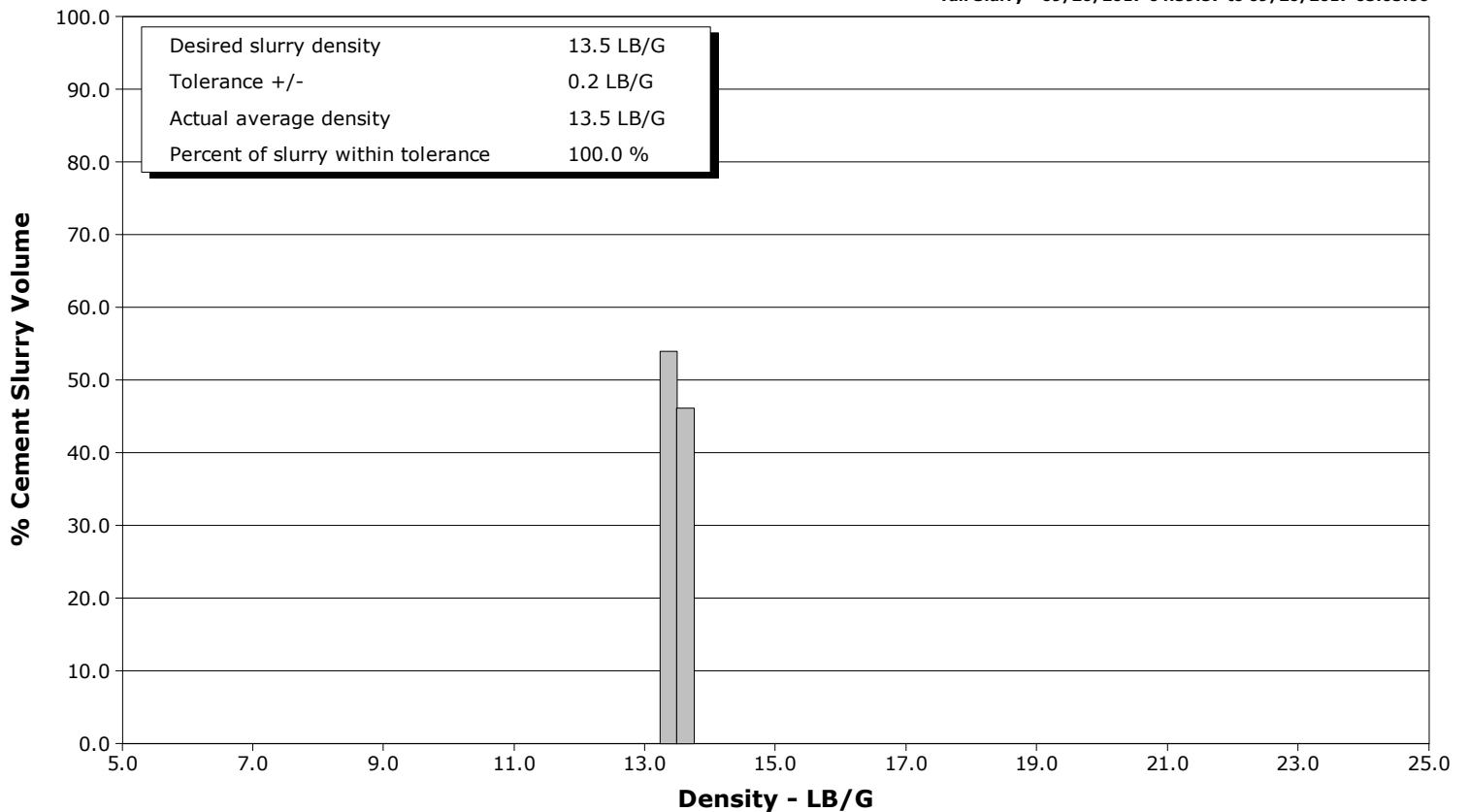
Well Norden 2N-14HZ
Field Wattenberg
Engineer Ryan Drilling
Country United States

Client Anadarko
SIR No. DMBW-01466
Job Type 7" Int.
Job Date 09-20-2017

Lead Slurry - 09/20/2017 04:15:22 to 09/20/2017 04:54:57



Tail Slurry - 09/20/2017 04:59:57 to 09/20/2017 05:05:06



				Customer			Job Number			
				Anadarko			DMBW-01466			
Well		Location (legal)			Schlumberger Location			Job Start		
Norden 2N-14HZ		CWY			CWY			Sep/20/2017		
Field		Formation Name/Type			Deviation	Bit Size	Well MD		Well TVD	
Wattenberg					90 deg	8.5 in	5846.0 ft		5824.0 ft	
County		State/Province			BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado			psi	198 degF	148 degF	lb/gal		
Well Master		API/UWI								
0631692040										
Rig Name	Drilled For		Service Via		Casing/Liner					
Xtreme 24	Oil & Gas		Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class		Well Type		5846.0	7.0	26.0	n80	Itc	
	New		Development		0.0	0.0	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
		lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line	Job Type									
Cementing	7" Int.									
Max. Allowed Tub. Press	Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole					
psi	psi		Double Cement head		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			
7" intermediate casing cementing. Top of Lead: Surface Top of Tail: 4,849'		Casing	221.9 bbl				ft			
		Tubing Vol.	Casing Vol.		Annular Vol.		Openhole Vol.			
		bbl	bbl		bbl		bbl			
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement			Casing Tools			Squeeze Job		
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								
Lift Pressure		Shoe Type			Shoe Depth			Squeeze Type		
1700 psi		Float			5846.0 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		
Double		Sep/20/2017 02:00			Sep/20/2017 02:00			Sep/20/2017 07:30		
		Collar Type			Collar Depth			Tail Pipe Depth		
		Float			5799.0 ft			ft		
		Sqz. Total Vol.			bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
09/20/2017	03:19:09	4	0.0	8.36	0.0	Started Acquisition				
09/20/2017	03:19:10	5	0.0	8.36	0.0	Start Job				
09/20/2017	03:19:11	5	0.0	8.36	0.0	Remark				
09/20/2017	03:19:14	5	0.0	8.36	0.0	Start Pumping Water				
09/20/2017	03:19:16	4	0.0	8.36	0.0	Remark				
09/20/2017	03:19:17	4	0.0	8.36	0.0	Pressure Test Lines				
09/20/2017	03:20:09	5	0.0	8.36	0.0					
09/20/2017	03:21:09	5	0.0	8.36	0.0					
09/20/2017	03:22:09	5	0.0	8.36	0.0					
09/20/2017	03:23:09	5	0.0	8.36	0.0					
09/20/2017	03:24:09	4	0.0	8.36	0.0					
09/20/2017	03:25:09	2	0.0	8.36	0.0					
09/20/2017	03:26:09	2	0.0	8.36	0.0					
09/20/2017	03:27:09	2	0.0	8.36	0.0					
09/20/2017	03:28:09	70	0.5	8.36	0.4					
09/20/2017	03:29:09	280	2.4	8.36	1.6					
09/20/2017	03:30:09	99	0.0	8.36	5.4					
09/20/2017	03:31:09	821	0.0	8.36	5.4					
09/20/2017	03:32:09	1052	0.0	8.36	5.4					
09/20/2017	03:33:09	900	0.0	8.36	5.4					
09/20/2017	03:34:09	1262	0.0	8.36	5.4					

Well			Field		Job Start	Customer	Job Number
Norden 2N-14HZ			Wattenberg		Sep/20/2017	Anadarko	DMBW-01466
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/20/2017	03:36:09	1118	0.0	8.36	5.4		
09/20/2017	03:37:09	5169	0.0	8.36	5.4		
09/20/2017	03:38:09	5047	0.0	8.36	5.4		
09/20/2017	03:39:09	4971	0.0	8.36	5.4		
09/20/2017	03:40:09	4886	0.0	8.36	5.4		
09/20/2017	03:41:09	2	0.0	8.36	5.4		
09/20/2017	03:42:09	23	0.0	8.36	5.4		
09/20/2017	03:42:16	23	0.0	8.36	5.4		End Water
09/20/2017	03:42:18	24	0.0	8.36	5.4		Reset Total, Vol = 5.41 bbl
09/20/2017	03:42:21	23	0.0	8.36	5.4		Start Pumping Spacer
09/20/2017	03:43:09	66	0.0	8.36	0.1		
09/20/2017	03:44:09	65	0.0	8.36	0.1		
09/20/2017	03:45:09	62	0.0	8.36	0.1		
09/20/2017	03:46:09	60	0.0	8.36	0.1		
09/20/2017	03:47:09	60	0.0	8.35	0.1		
09/20/2017	03:48:09	59	0.0	8.35	0.1		
09/20/2017	03:49:09	56	0.0	8.34	0.1		
09/20/2017	03:50:09	560	4.6	10.81	2.2		
09/20/2017	03:51:09	453	4.6	10.89	6.8		
09/20/2017	03:52:09	410	4.5	11.01	11.4		
09/20/2017	03:53:09	476	4.5	11.02	15.9		
09/20/2017	03:54:09	816	8.3	10.99	22.0		
09/20/2017	03:55:09	215	3.5	10.95	28.8		
09/20/2017	03:56:09	90	0.6	10.95	29.9		
09/20/2017	03:57:09	88	0.6	10.95	30.5		
09/20/2017	03:58:09	83	0.6	10.95	31.1		
09/20/2017	03:59:09	557	3.6	10.73	34.1		
09/20/2017	04:00:09	295	3.3	10.70	38.5		
09/20/2017	04:01:09	23	0.0	11.08	39.2		
09/20/2017	04:02:09	15	0.0	11.13	39.2		
09/20/2017	04:03:09	13	0.0	11.14	39.2		
09/20/2017	04:03:55	11	0.0	11.13	39.2		End Spacer
09/20/2017	04:03:56	12	0.0	11.13	39.2		Reset Total, Vol = 40.23 bbl
09/20/2017	04:04:01	12	0.0	11.13	39.2		Drop Bottom Plug
09/20/2017	04:04:09	12	0.0	11.13	39.2		
09/20/2017	04:05:09	11	0.0	11.12	39.2		
09/20/2017	04:06:09	12	0.0	11.11	39.2		
09/20/2017	04:07:09	11	0.0	11.09	39.2		
09/20/2017	04:08:09	13	0.0	11.12	39.2		
09/20/2017	04:09:09	88	0.6	11.70	40.5		
09/20/2017	04:10:09	87	0.6	11.74	41.1		
09/20/2017	04:11:09	88	0.7	11.96	41.6		
09/20/2017	04:12:09	491	4.5	11.89	42.9		
09/20/2017	04:13:09	185	2.0	12.01	47.3		
09/20/2017	04:14:09	178	1.9	12.14	49.3		
09/20/2017	04:15:09	201	2.0	12.10	51.2		
09/20/2017	04:15:22	171	1.9	12.07	51.6		Start Mixing Lead Slurry
09/20/2017	04:15:24	158	1.9	12.09	51.7		Wet and Dry Samples Taken
09/20/2017	04:15:25	218	2.0	12.11	51.7		Wet Sample Weighed
09/20/2017	04:15:26	169	2.0	12.11	51.7		400 sks, 1.85 Yield
09/20/2017	04:16:09	151	1.9	12.12	53.1		
09/20/2017	04:17:09	170	1.9	12.04	55.1		
09/20/2017	04:18:09	142	1.9	11.91	57.0		
09/20/2017	04:19:09	120	1.9	11.92	59.0		

Well			Field		Job Start	Customer	Job Number
Norden 2N-14HZ			Wattenberg		Sep/20/2017	Anadarko	DMBW-01466
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/20/2017	04:21:09	541	4.8	11.95	66.3		
09/20/2017	04:22:09	783	6.4	12.02	72.6		
09/20/2017	04:23:09	430	4.5	11.96	77.2		
09/20/2017	04:24:09	374	4.5	11.97	81.7		
09/20/2017	04:25:09	373	4.5	11.96	86.2		
09/20/2017	04:26:09	350	4.5	12.02	90.7		
09/20/2017	04:27:09	76	2.1	12.03	93.9		
09/20/2017	04:28:09	64	1.9	12.07	96.5		
09/20/2017	04:29:09	59	1.6	11.99	98.2		
09/20/2017	04:30:09	23	0.8	11.97	99.3		
09/20/2017	04:31:09	23	0.8	11.96	99.9		
09/20/2017	04:32:09	7	0.0	13.13	100.7		
09/20/2017	04:33:09	49	0.5	12.14	100.7		
09/20/2017	04:34:09	33	1.5	11.68	102.5		
09/20/2017	04:35:09	25	1.1	11.73	103.7		
09/20/2017	04:36:09	164	4.2	11.79	105.9		
09/20/2017	04:37:09	108	3.3	11.83	109.9		
09/20/2017	04:38:09	191	4.5	11.89	114.2		
09/20/2017	04:39:09	204	4.5	11.92	118.7		
09/20/2017	04:40:09	210	4.5	11.94	123.2		
09/20/2017	04:41:09	217	4.5	11.92	127.7		
09/20/2017	04:42:09	237	4.5	11.89	132.2		
09/20/2017	04:43:09	235	4.5	11.90	136.8		
09/20/2017	04:44:09	143	3.3	11.96	140.8		
09/20/2017	04:45:09	131	3.3	12.05	144.0		
09/20/2017	04:46:09	148	3.3	12.08	147.3		
09/20/2017	04:47:09	56	2.5	12.06	149.9		
09/20/2017	04:48:09	62	1.8	12.05	152.2		
09/20/2017	04:49:09	97	2.7	11.91	154.7		
09/20/2017	04:50:09	95	2.7	11.96	157.4		
09/20/2017	04:51:09	78	2.3	11.90	159.9		
09/20/2017	04:52:09	86	2.5	11.95	162.4		
09/20/2017	04:53:09	70	2.3	11.89	164.8		
09/20/2017	04:54:09	66	2.3	11.87	167.2		
09/20/2017	04:54:57	33	3.5	11.84	171.2	End Lead Slurry	
09/20/2017	04:55:01	26	0.5	12.00	171.3	Reset Total, Vol = 132.17 bbl	
09/20/2017	04:55:09	21	0.2	11.99	171.4		
09/20/2017	04:56:09	15	0.0	11.94	171.4		
09/20/2017	04:57:09	14	0.0	11.84	171.4		
09/20/2017	04:58:09	11	0.0	13.51	171.6		
09/20/2017	04:59:09	99	2.6	13.35	173.6		
09/20/2017	04:59:57	239	4.6	13.48	177.1	Start Mixing Tail Slurry	
09/20/2017	04:59:58	234	4.6	13.49	177.2	Wet and Dry Samples Taken	
09/20/2017	04:59:59	230	4.6	13.50	177.3	100 sks, 1.66 Yield	
09/20/2017	05:00:00	232	4.6	13.51	177.3	Good Returns	
09/20/2017	05:00:09	223	4.6	13.52	178.0		
09/20/2017	05:01:09	231	4.5	13.57	182.6		
09/20/2017	05:02:09	189	4.6	13.42	187.1		
09/20/2017	05:03:09	205	4.5	13.49	191.7		
09/20/2017	05:04:09	108	2.9	13.43	194.5		
09/20/2017	05:05:06	73	2.2	13.33	196.8	End Tail Slurry	
09/20/2017	05:05:09	74	2.2	13.33	196.9		
09/20/2017	05:05:58	226	5.2	13.31	200.4	Reset Total, Vol = 29.10 bbl	
09/20/2017	05:06:09	28	0.3	13.40	201.1		

Well			Field		Job Start	Customer	Job Number
Norden 2N-14HZ			Wattenberg		Sep/20/2017	Anadarko	DMBW-01466
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/20/2017	05:08:09	17	0.0	13.39	201.1		
09/20/2017	05:09:09	17	0.0	13.39	201.1		
09/20/2017	05:10:09	17	0.0	13.38	201.1		
09/20/2017	05:11:09	17	0.0	13.38	201.1		
09/20/2017	05:12:09	17	0.0	13.38	201.1		
09/20/2017	05:13:09	17	0.0	13.38	201.1		
09/20/2017	05:14:09	79	4.7	9.35	202.2		
09/20/2017	05:15:09	79	4.8	8.64	207.0		
09/20/2017	05:15:41	81	4.8	8.67	209.6	Drop Top Plug	
09/20/2017	05:15:42	81	4.8	8.68	209.7	Start Displacement	
09/20/2017	05:16:09	78	4.7	8.39	211.9		
09/20/2017	05:17:09	81	4.7	9.16	216.6		
09/20/2017	05:18:09	60	4.1	8.63	221.1		
09/20/2017	05:19:09	70	4.6	8.48	225.5		
09/20/2017	05:20:09	66	4.4	8.37	230.0		
09/20/2017	05:21:09	7	0.3	8.40	231.0		
09/20/2017	05:22:09	81	4.1	8.82	231.4		
09/20/2017	05:23:09	145	4.6	9.13	236.0		
09/20/2017	05:24:09	137	4.6	9.12	240.6		
09/20/2017	05:25:09	236	6.4	9.13	246.1		
09/20/2017	05:26:09	181	5.2	9.12	251.4		
09/20/2017	05:27:09	177	5.2	9.13	256.7		
09/20/2017	05:28:09	90	3.4	9.13	260.6		
09/20/2017	05:29:09	146	4.6	9.13	264.9		
09/20/2017	05:30:09	259	6.4	9.12	271.1		
09/20/2017	05:31:09	384	6.4	9.12	277.6		
09/20/2017	05:32:09	610	6.4	9.12	283.9		
09/20/2017	05:33:09	749	6.4	9.12	290.3		
09/20/2017	05:34:09	780	6.3	9.11	296.7		
09/20/2017	05:35:09	839	6.4	9.10	303.0		
09/20/2017	05:36:09	994	6.4	9.11	309.4		
09/20/2017	05:37:09	1043	6.4	9.11	315.7		
09/20/2017	05:38:09	1103	6.4	9.11	322.1		
09/20/2017	05:39:09	1254	6.4	9.11	328.5		
09/20/2017	05:40:09	1304	6.4	9.10	334.8		
09/20/2017	05:41:09	1372	6.3	9.10	341.2		
09/20/2017	05:42:09	1461	6.3	9.09	347.6		
09/20/2017	05:43:09	1603	6.4	9.09	353.9		
09/20/2017	05:44:09	1635	6.3	9.09	360.3		
09/20/2017	05:45:09	1669	6.4	9.08	366.6		
09/20/2017	05:46:09	1792	6.3	9.08	372.9		
09/20/2017	05:47:09	1484	4.5	9.08	378.6		
09/20/2017	05:48:09	1464	4.5	9.08	383.1		
09/20/2017	05:49:09	1680	4.5	9.08	387.6		
09/20/2017	05:50:09	1394	3.3	9.08	391.4		
09/20/2017	05:51:09	1401	3.3	9.08	394.7		
09/20/2017	05:52:09	1487	3.3	9.08	397.9		
09/20/2017	05:53:09	1539	3.3	9.08	401.2		
09/20/2017	05:54:09	1523	3.3	8.87	404.5		
09/20/2017	05:55:09	1646	3.2	9.11	407.8		
09/20/2017	05:56:09	1677	3.2	9.08	411.0		
09/20/2017	05:57:09	1740	3.2	9.08	414.2		
09/20/2017	05:58:09	1748	3.2	8.44	417.4		
09/20/2017	05:59:09	1514	2.2	8.36	419.7		

Well		Field		Job Start		Customer		Job Number	
Norden 2N-14HZ		Wattenberg		Sep/20/2017		Anadarko		DMBW-01466	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/20/2017	06:01:09	1631	2.2	8.36	424.1				
09/20/2017	06:02:09	1570	2.2	8.36	426.3				
09/20/2017	06:03:09	1619	2.2	8.37	428.5				
09/20/2017	06:04:09	1675	2.2	8.36	430.6				
09/20/2017	06:05:09	2224	0.0	8.36	432.0				
09/20/2017	06:06:09	2243	0.0	8.36	432.0				
09/20/2017	06:06:11	2244	0.0	8.36	432.0	10 Bbls Cement to Surface			
09/20/2017	06:06:13	2245	0.0	8.36	432.0	Bump Top Plug 1700-2200 psi			
09/20/2017	06:06:14	2245	0.0	8.36	432.0	End Displacement			
09/20/2017	06:06:15	2245	0.0	8.36	432.0	Reset Total, Vol = 221.9 bbl			
09/20/2017	06:07:09	2265	0.0	8.36	432.0				
09/20/2017	06:08:09	2275	0.0	8.36	432.0				
09/20/2017	06:09:09	548	0.0	8.36	432.0				
09/20/2017	06:10:09	26	0.0	8.36	432.1				
09/20/2017	06:11:09	2345	2.2	8.36	434.0	Floats hold, 2 Bbl Back			
09/20/2017	06:11:57	3050	0.0	8.36	434.8	Stare 15min, 3k psi Casing Test			
09/20/2017	06:12:09	3053	0.0	8.36	434.8				
09/20/2017	06:13:09	3058	0.0	8.36	434.8				
09/20/2017	06:14:09	3066	0.0	8.36	434.8				
09/20/2017	06:15:09	3074	0.0	8.37	434.8				
09/20/2017	06:16:09	3087	0.0	8.37	434.8				
09/20/2017	06:17:09	3091	0.0	8.37	434.8				
09/20/2017	06:18:09	3102	0.0	8.37	434.8				
09/20/2017	06:19:09	3111	0.0	8.37	434.8				
09/20/2017	06:20:09	3119	0.0	8.37	434.8				
09/20/2017	06:21:09	3129	0.0	8.37	434.8				
09/20/2017	06:22:09	3137	0.0	8.37	434.8				
09/20/2017	06:23:09	3144	0.0	8.36	434.8				
09/20/2017	06:24:09	3155	0.0	8.35	434.8				
09/20/2017	06:25:09	3162	0.0	8.35	434.8				
09/20/2017	06:26:09	3171	0.0	8.35	434.8				
09/20/2017	06:27:09	3179	0.0	8.36	434.8				
09/20/2017	06:28:09	3186	0.0	8.36	434.8				
09/20/2017	06:29:09	3193	0.0	8.36	434.8				
09/20/2017	06:30:09	3201	0.0	8.36	434.8				
09/20/2017	06:30:12	3200	0.0	8.36	434.8	End Casing Test, Bleed Off			
09/20/2017	06:30:36	2414	0.0	8.36	434.8	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
3.7			8.4	160.0	0.0	40.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
5305	15	849	2200			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	10.0 bbl
%	0.0 bbl	221.9 bbl	73 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative			Schlumberger Supervisor	Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
			Ryan Drilling	-		-	