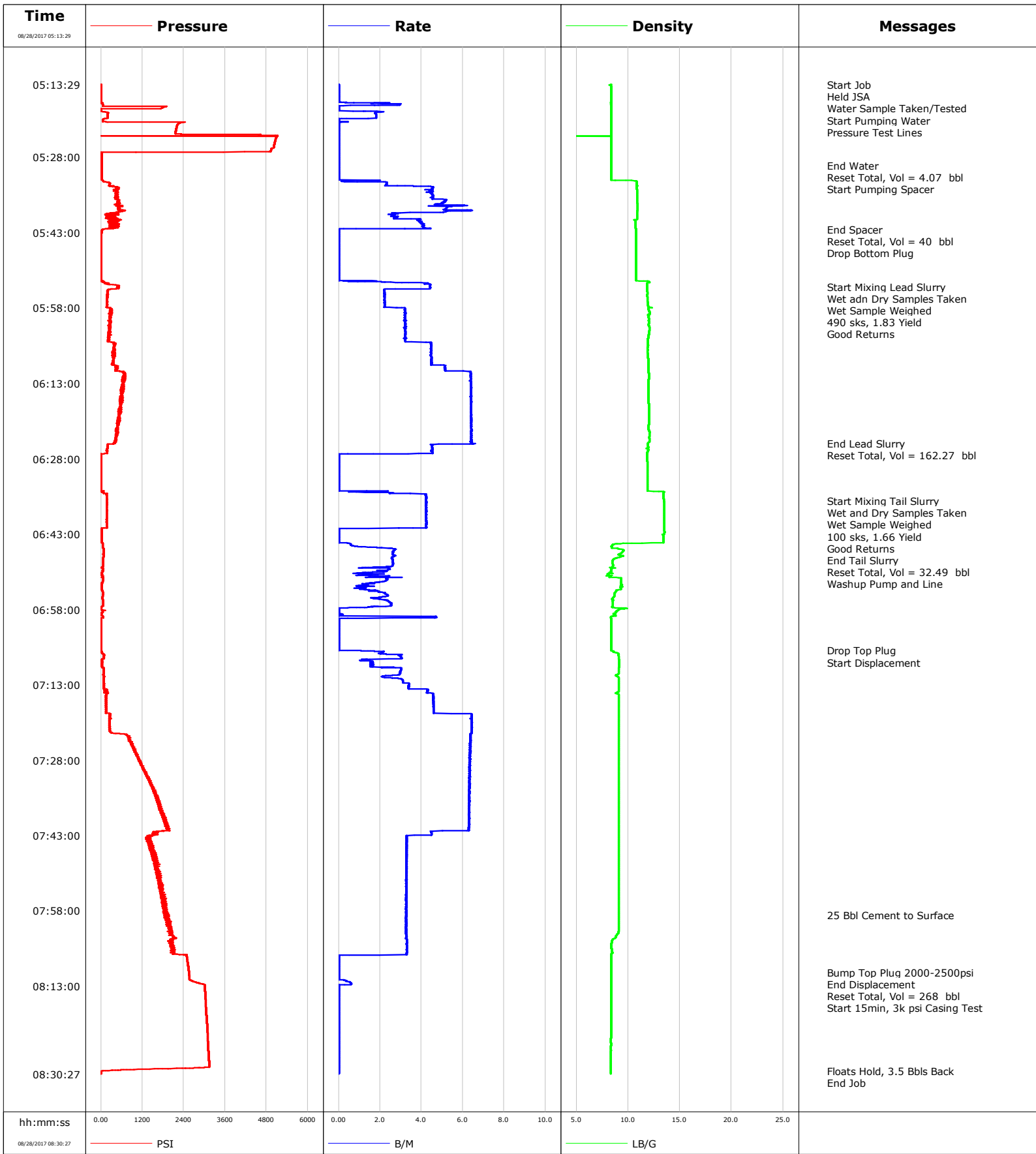


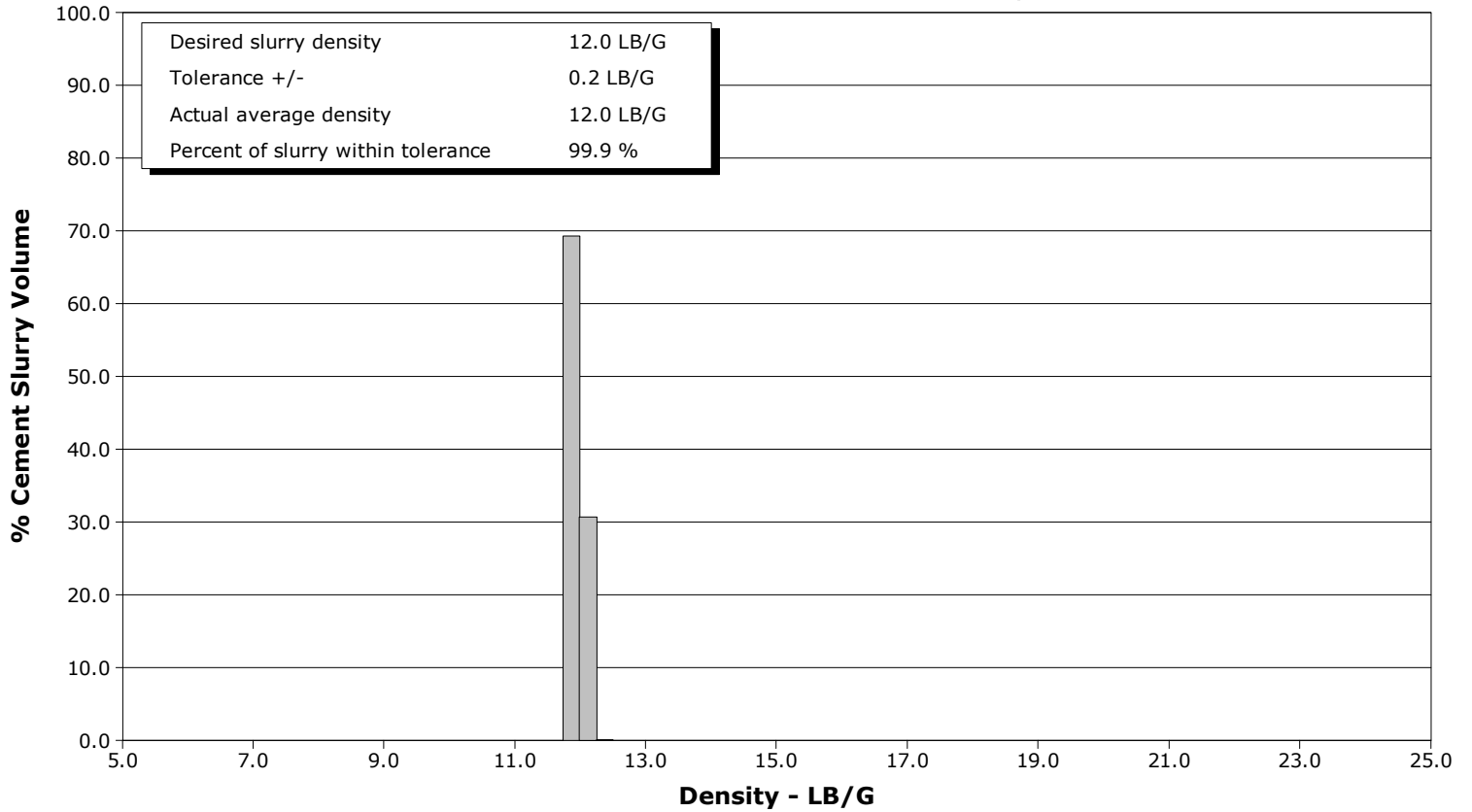
<b>Well</b>	Norden 1C-14HZ	<b>Client</b>	Anadarko
<b>Field</b>	Wattenberg	<b>SIR No.</b>	CSS9-00643
<b>Engineer</b>	Ryan Drilling/Joe Sanchez	<b>Job Type</b>	7" Intermediate
<b>Country</b>	United States	<b>Job Date</b>	08-28-2017



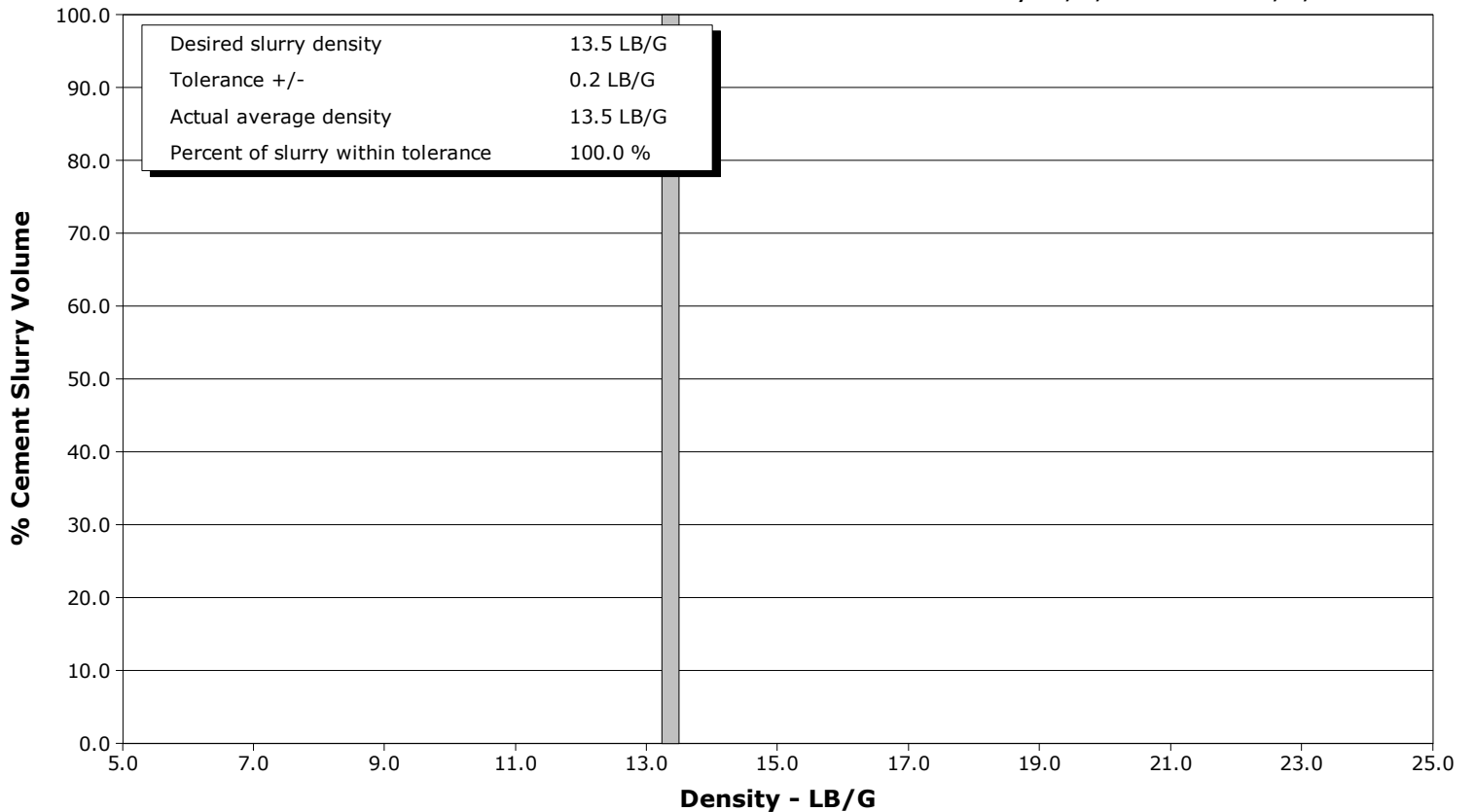
**Well** Norden 1C-14HZ  
**Field** Wattenberg  
**Engineer** Ryan Drilling/Joe Sanchez  
**Country** United States

**Client** Anadarko  
**SIR No.** CSS9-00643  
**Job Type** 7" Intermediate  
**Job Date** 08-28-2017

Lead Slurry - 08/28/2017 05:53:41 to 08/28/2017 06:25:02



Tail Slurry - 08/28/2017 06:36:22 to 08/28/2017 06:41:40



				Customer			Job Number		
				Anadarko			CSS9-00643		
Well		Location (legal)			Schlumberger Location			Job Start	
Norden 1C-14HZ		CWY			CWY			Aug/28/2017	
Field		Formation Name/Type		Deviation	Bit Size	Well MD		Well TVD	
Wattenberg		Shale		90 deg	8.5 in	7090.0 ft		6790.0 ft	
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado		psi	227 degF	176 degF	lb/gal		
Well Master		API/UWI							
0631692297									
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		1875.0	9.6	36.0	j55	lrc	
	New	Development		7090.0	7.0	26.0	n80	lrc	
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" Intermediate								
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					
Treat Down		Displacement		Packer Type		Packer Depth			
Casing		268.0 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			
2000 psi		Float		7090.0 ft					
Pipe Rotated		Pipe Reciprocated		Stage Tool Type		Tool Type			
<input type="checkbox"/>		<input type="checkbox"/>							
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Depth		Tool Depth			
		1	1	ft		ft			
Cement Head Type		Stage Tool Depth		Tail Pipe Size					
Double		ft		in					
Job Scheduled For		Arrived on Location		Leave Location		Collar Type		Tail Pipe Depth	
Aug/27/2017 23:00		Aug/28/2017 23:00		Aug/28/2017 09:00		Float		ft	
				Collar Depth		Sqz. Total Vol.			
				7004.0 ft		bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/28/2017	05:13:29	1	0.0	8.36	17.4	Started Acquisition			
08/28/2017	05:13:32	1	0.0	8.36	17.4	Start Job			
08/28/2017	05:13:33	2	0.0	8.33	17.4	Held JSA			
08/28/2017	05:13:34	1	0.0	8.33	17.4	Water Sample Taken/Tested			
08/28/2017	05:13:45	1	0.0	8.34	17.4	Start Pumping Water			
08/28/2017	05:13:47	2	0.0	8.35	17.4	Pressure Test Lines			
08/28/2017	05:14:29	2	0.0	8.36	17.4				
08/28/2017	05:15:29	1	0.0	8.36	17.4				
08/28/2017	05:16:29	2	0.0	8.36	17.4				
08/28/2017	05:17:29	56	2.9	8.35	18.1				
08/28/2017	05:18:29	8	0.0	8.36	18.8				
08/28/2017	05:19:29	191	1.8	8.36	0.7				
08/28/2017	05:20:29	61	0.0	8.36	2.2				
08/28/2017	05:21:29	2221	0.0	8.36	2.2				
08/28/2017	05:22:29	2176	0.0	8.36	2.2				
08/28/2017	05:23:29	4621	0.0	8.36	2.2				
08/28/2017	05:24:29	5057	0.0	8.36	2.2				
08/28/2017	05:25:29	5024	0.0	8.36	2.2				
08/28/2017	05:26:29	4931	0.0	8.36	2.2				
08/28/2017	05:27:29	19	0.0	8.36	2.2				
08/28/2017	05:28:29	21	0.0	8.36	2.2				

Well		Field		Job Start		Customer		Job Number	
Norden 1C-14HZ		Wattenberg		Aug/28/2017		Anadarko		CSS9-00643	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/28/2017	05:29:42	22	0.0	8.36	2.2	End Water			
08/28/2017	05:29:44	21	0.0	8.36	2.2	Reset Total, Vol = 4.07 bbl			
08/28/2017	05:30:21	21	0.0	8.36	2.2	Start Pumping Spacer			
08/28/2017	05:30:29	21	0.0	8.36	2.2				
08/28/2017	05:31:29	22	0.0	8.36	2.2				
08/28/2017	05:32:29	23	0.0	8.36	2.2				
08/28/2017	05:33:29	241	2.3	10.81	3.7				
08/28/2017	05:34:29	373	4.2	10.85	7.7				
08/28/2017	05:35:29	476	4.5	10.86	12.2				
08/28/2017	05:36:29	482	5.2	10.87	16.8				
08/28/2017	05:37:29	509	4.7	10.91	21.8				
08/28/2017	05:38:29	627	6.2	10.90	27.1				
08/28/2017	05:39:29	127	2.7	10.87	31.4				
08/28/2017	05:40:29	363	3.8	10.60	34.4				
08/28/2017	05:41:29	307	4.1	10.74	38.3				
08/28/2017	05:42:22	47	0.0	10.75	41.4	End Spacer			
08/28/2017	05:42:24	43	0.0	10.75	41.4	Reset Total, Vol = 40 bbl			
08/28/2017	05:42:26	37	0.0	10.75	41.4	Drop Bottom Plug			
08/28/2017	05:42:29	31	0.0	10.75	41.4				
08/28/2017	05:43:29	12	0.0	10.75	41.4				
08/28/2017	05:44:29	9	0.0	10.75	41.4				
08/28/2017	05:45:29	8	0.0	10.75	41.4				
08/28/2017	05:46:29	8	0.0	10.75	41.4				
08/28/2017	05:47:29	7	0.0	10.77	41.4				
08/28/2017	05:48:29	7	0.0	10.77	41.4				
08/28/2017	05:49:29	7	0.0	10.75	41.4				
08/28/2017	05:50:29	7	0.0	10.75	41.4				
08/28/2017	05:51:29	7	0.0	10.75	41.4				
08/28/2017	05:52:29	7	0.0	10.75	41.4				
08/28/2017	05:53:29	465	4.4	11.81	44.2				
08/28/2017	05:53:41	532	4.4	11.81	45.1	Start Mixing Lead Slurry			
08/28/2017	05:53:44	462	4.4	11.81	45.4	Wet adn Dry Samples Taken			
08/28/2017	05:53:45	489	4.4	11.81	45.4	Wet Sample Weighed			
08/28/2017	05:53:46	462	4.4	11.81	45.5	Good Returns			
08/28/2017	05:54:29	199	2.2	11.81	48.1				
08/28/2017	05:55:29	193	2.2	11.84	50.3				
08/28/2017	05:56:29	179	2.2	11.87	52.5				
08/28/2017	05:57:29	162	2.2	11.93	54.8				
08/28/2017	05:58:29	299	3.2	12.00	57.5				
08/28/2017	05:59:29	274	3.2	11.97	60.7				
08/28/2017	06:00:29	285	3.3	11.98	63.9				
08/28/2017	06:01:29	286	3.2	11.99	67.1				
08/28/2017	06:02:29	235	3.2	12.05	70.4				
08/28/2017	06:03:29	217	3.2	11.98	73.6				
08/28/2017	06:04:29	224	3.2	11.90	76.8				
08/28/2017	06:05:29	385	4.5	11.93	80.9				
08/28/2017	06:06:29	393	4.5	11.88	85.3				
08/28/2017	06:07:29	408	4.4	11.90	89.8				
08/28/2017	06:08:29	354	4.5	11.96	94.3				
08/28/2017	06:09:29	419	5.2	11.95	98.8				
08/28/2017	06:10:29	456	5.1	11.97	104.0				
08/28/2017	06:11:29	645	6.4	12.00	110.2				
08/28/2017	06:12:29	626	6.4	11.98	116.6				
08/28/2017	06:13:29	641	6.4	11.95	123.0				

Well		Field		Job Start		Customer		Job Number	
Norden 1C-14HZ		Wattenberg		Aug/28/2017		Anadarko		CSS9-00643	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/28/2017	06:15:29	593	6.4	11.95	135.8				
08/28/2017	06:16:29	551	6.4	11.98	142.1				
08/28/2017	06:17:29	559	6.4	11.99	148.5				
08/28/2017	06:18:29	506	6.4	12.00	154.9				
08/28/2017	06:19:29	526	6.4	12.01	161.3				
08/28/2017	06:20:29	551	6.4	12.00	167.7				
08/28/2017	06:21:29	496	6.4	11.96	174.1				
08/28/2017	06:22:29	445	6.4	12.01	180.6				
08/28/2017	06:23:29	451	6.4	12.06	187.0				
08/28/2017	06:24:29	409	6.4	12.05	193.4				
08/28/2017	06:25:02	358	6.6	11.90	196.9	End Lead Slurry			
08/28/2017	06:25:29	190	4.5	11.93	199.1				
08/28/2017	06:26:29	184	4.5	11.91	203.6	Reset Total, Vol = 162.27 bbl			
08/28/2017	06:27:29	8	0.0	11.84	206.2				
08/28/2017	06:28:29	9	0.0	11.84	206.2				
08/28/2017	06:29:29	9	0.0	11.85	206.2				
08/28/2017	06:30:29	9	0.0	11.86	206.2				
08/28/2017	06:31:29	10	0.0	11.86	206.2				
08/28/2017	06:32:29	10	0.0	11.87	206.2				
08/28/2017	06:33:29	10	0.0	11.87	206.2				
08/28/2017	06:34:29	53	2.3	12.47	206.2				
08/28/2017	06:35:29	166	4.2	13.42	209.3				
08/28/2017	06:36:22	173	4.2	13.46	213.0	Start Mixing Tail Slurry			
08/28/2017	06:36:29	171	4.2	13.46	213.5				
08/28/2017	06:36:55	173	4.2	13.49	215.3	Wet and Dry Samples Taken			
08/28/2017	06:36:56	171	4.2	13.49	215.4	Wet Sample Weighed			
08/28/2017	06:36:57	164	4.2	13.49	215.5	Good Returns			
08/28/2017	06:37:29	174	4.2	13.48	217.7				
08/28/2017	06:38:29	170	4.2	13.48	222.0				
08/28/2017	06:39:29	170	4.2	13.48	226.2				
08/28/2017	06:40:29	167	4.2	13.48	230.4				
08/28/2017	06:41:29	170	4.2	13.50	234.6				
08/28/2017	06:41:40	172	4.2	13.49	235.4	End Tail Slurry			
08/28/2017	06:41:54	21	0.0	13.49	236.2	Reset Total, Vol = 32.49 bbl			
08/28/2017	06:42:29	17	0.0	13.50	236.2				
08/28/2017	06:43:29	17	0.0	13.38	236.2				
08/28/2017	06:44:29	17	0.0	13.39	236.2				
08/28/2017	06:45:29	49	1.0	8.38	236.6				
08/28/2017	06:46:29	76	2.6	9.50	239.0				
08/28/2017	06:46:55	72	2.6	9.27	240.1	Washup Pump and Line			
08/28/2017	06:47:29	72	2.6	9.31	241.6				
08/28/2017	06:48:29	67	2.6	8.45	244.2				
08/28/2017	06:49:29	54	2.3	8.46	246.8				
08/28/2017	06:50:29	52	2.3	8.35	249.0				
08/28/2017	06:51:29	54	2.1	8.27	250.5				
08/28/2017	06:52:29	48	2.1	9.32	252.7				
08/28/2017	06:53:29	23	1.4	9.48	254.2				
08/28/2017	06:54:29	51	1.9	8.80	255.6				
08/28/2017	06:55:29	47	2.2	8.64	257.8				
08/28/2017	06:56:29	63	2.5	8.51	259.9				
08/28/2017	06:57:29	27	1.6	8.43	262.3				
08/28/2017	06:58:29	49	0.0	8.85	262.6				
08/28/2017	06:59:29	69	4.6	8.34	263.2				
08/28/2017	07:00:29	2	0.0	8.36	264.4				

Well Norden 1C-14HZ			Field Wattenberg		Job Start Aug/28/2017	Customer Anadarko		Job Number CSS9-00643
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/28/2017	07:02:29	4	0.0	8.37	264.4			
08/28/2017	07:03:29	4	0.0	8.37	264.4			
08/28/2017	07:04:29	4	0.0	8.37	264.4			
08/28/2017	07:05:29	5	0.0	8.37	264.4			
08/28/2017	07:06:13	12	1.1	8.39	264.4	Drop Top Plug		
08/28/2017	07:06:14	12	1.1	8.39	264.4	Start Displacement		
08/28/2017	07:06:29	19	2.1	8.57	264.9			
08/28/2017	07:07:29	84	3.0	9.11	267.5			
08/28/2017	07:08:29	35	1.7	9.12	269.5			
08/28/2017	07:09:29	65	2.6	9.12	271.1			
08/28/2017	07:10:29	73	3.0	9.08	274.0			
08/28/2017	07:11:29	81	2.1	9.05	276.7			
08/28/2017	07:12:29	74	3.1	9.10	279.6			
08/28/2017	07:13:29	80	3.4	9.08	283.0			
08/28/2017	07:14:29	122	4.3	8.98	286.9			
08/28/2017	07:15:29	157	4.6	9.11	291.4			
08/28/2017	07:16:29	152	4.6	9.10	296.0			
08/28/2017	07:17:29	142	4.6	9.10	300.6			
08/28/2017	07:18:29	155	4.6	9.10	305.2			
08/28/2017	07:19:29	261	6.4	9.10	311.1			
08/28/2017	07:20:29	245	6.4	9.10	317.6			
08/28/2017	07:21:29	240	6.4	9.10	324.0			
08/28/2017	07:22:29	304	6.4	9.10	330.4			
08/28/2017	07:23:29	795	6.4	9.10	336.8			
08/28/2017	07:24:29	861	6.4	9.10	343.2			
08/28/2017	07:25:29	954	6.3	9.10	349.5			
08/28/2017	07:26:29	1001	6.3	9.10	355.9			
08/28/2017	07:27:29	1048	6.3	9.10	362.2			
08/28/2017	07:28:29	1149	6.3	9.10	368.5			
08/28/2017	07:29:29	1208	6.3	9.10	374.9			
08/28/2017	07:30:29	1269	6.3	9.10	381.2			
08/28/2017	07:31:29	1366	6.3	9.09	387.5			
08/28/2017	07:32:29	1451	6.3	9.09	393.8			
08/28/2017	07:33:29	1477	6.3	9.09	400.2			
08/28/2017	07:34:29	1538	6.3	9.09	406.5			
08/28/2017	07:35:29	1637	6.3	9.09	412.8			
08/28/2017	07:36:29	1715	6.3	9.09	419.1			
08/28/2017	07:37:29	1682	6.3	9.09	425.4			
08/28/2017	07:38:29	1767	6.3	9.09	431.7			
08/28/2017	07:39:29	1867	6.3	9.09	438.0			
08/28/2017	07:40:29	1834	6.3	9.09	444.3			
08/28/2017	07:41:29	1898	6.3	9.09	450.6			
08/28/2017	07:42:29	1587	4.5	9.09	456.1			
08/28/2017	07:43:29	1446	3.3	9.09	460.0			
08/28/2017	07:44:29	1361	3.3	9.09	463.3			
08/28/2017	07:45:29	1474	3.3	9.09	466.6			
08/28/2017	07:46:29	1582	3.3	9.09	469.9			
08/28/2017	07:47:29	1482	3.3	9.09	473.1			
08/28/2017	07:48:29	1602	3.3	9.09	476.4			
08/28/2017	07:49:29	1623	3.3	9.09	479.7			
08/28/2017	07:50:29	1600	3.3	9.09	482.9			
08/28/2017	07:51:29	1676	3.3	9.09	486.2			
08/28/2017	07:52:29	1766	3.3	9.09	489.5			
08/28/2017	07:53:29	1753	3.3	9.09	492.7			

Well		Field		Job Start		Customer		Job Number	
Norden 1C-14HZ		Wattenberg		Aug/28/2017		Anadarko		CSS9-00643	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/28/2017	07:55:29	1858	3.3	9.09	499.3				
08/28/2017	07:56:29	1848	3.3	9.09	502.5				
08/28/2017	07:57:29	1844	3.3	9.09	505.8				
08/28/2017	07:58:29	1849	3.3	9.09	509.1				
08/28/2017	07:58:51	1864	3.3	9.09	510.3	25 Bbl Cement to Surface			
08/28/2017	07:59:29	1944	3.3	9.09	512.3				
08/28/2017	08:00:29	2036	3.3	9.09	515.6				
08/28/2017	08:01:29	2036	3.3	9.09	518.8				
08/28/2017	08:02:29	1979	3.3	9.03	522.1				
08/28/2017	08:03:29	2179	3.3	8.71	525.4				
08/28/2017	08:04:29	2010	3.3	8.39	528.7				
08/28/2017	08:05:29	2060	3.3	8.39	531.9				
08/28/2017	08:06:29	2134	3.3	8.42	535.2				
08/28/2017	08:07:29	2493	0.0	8.37	536.2				
08/28/2017	08:08:29	2516	0.0	8.37	536.2				
08/28/2017	08:09:29	2535	0.0	8.37	536.2				
08/28/2017	08:10:13	2546	0.0	8.37	536.2	Bump Top Plug 2000-2500psi			
08/28/2017	08:10:15	2547	0.0	8.37	536.2	End Displacement			
08/28/2017	08:10:18	2547	0.0	8.37	536.2	Reset Total, Vol = 268 bbl			
08/28/2017	08:10:29	2550	0.0	8.37	536.2				
08/28/2017	08:11:29	2564	0.0	8.37	536.2				
08/28/2017	08:12:29	2897	0.6	8.37	536.6				
08/28/2017	08:12:45	3004	0.0	8.37	536.7	Start 15min, 3k psi Casing Test			
08/28/2017	08:13:29	3010	0.0	8.37	536.7				
08/28/2017	08:14:29	3020	0.0	8.37	536.7				
08/28/2017	08:15:29	3028	0.0	8.37	536.7				
08/28/2017	08:16:29	3036	0.0	8.37	536.7				
08/28/2017	08:17:29	3046	0.0	8.37	536.7				
08/28/2017	08:18:29	3054	0.0	8.37	536.7				
08/28/2017	08:19:29	3064	0.0	8.37	536.7				
08/28/2017	08:20:29	3072	0.0	8.36	536.7				
08/28/2017	08:21:29	3080	0.0	8.36	536.7				
08/28/2017	08:22:29	3089	0.0	8.36	536.7				
08/28/2017	08:23:29	3097	0.0	8.35	536.7				
08/28/2017	08:24:29	3104	0.0	8.35	536.7				
08/28/2017	08:25:29	3112	0.0	8.35	536.7				
08/28/2017	08:26:29	3120	0.0	8.35	536.7				
08/28/2017	08:27:29	3127	0.0	8.35	536.7				
08/28/2017	08:28:29	3134	0.0	8.34	536.7				
08/28/2017	08:29:29	1415	0.0	8.34	536.7				
08/28/2017	08:29:50	51	0.0	8.34	536.7	Floats Hold, 3.5 Bbls Back			

<b>Well</b> Norden 1C-14HZ	<b>Field</b> Wattenberg	<b>Job Start</b> Aug/28/2017	<b>Customer</b> Anadarko	<b>Job Number</b> CSS9-00643
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### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
<b>Slurry</b> 4.2	<b>N2</b>	<b>Mud</b>	<b>Maximum Rate</b> 6.6	<b>Total Slurry</b> 192.0	<b>Mud</b> 0.0	<b>Spacer</b> 40.0	<b>N2</b>	
Treating Pressure Summary, psi					Breakdown Fluid			
<b>Maximum</b> 5126	<b>Final</b> 12	<b>Average</b> 934	<b>Bump Plug to</b> 2500	<b>Breakdown</b>	<b>Type</b>	<b>Volume</b> bbl	<b>Density</b> lb/gal	
<b>Avg. N2 Percent</b> %	<b>Designed Slurry Volume</b> 184.0 bbl	<b>Displacement</b> 268.0 bbl	<b>Mix Water Temp</b> 76 degF	<b>Cement Circulated to Surface?</b> <input checked="" type="checkbox"/>	<b>Volume</b> 25.0 bbl			
				<b>Washed Thru Perfs</b> <input type="checkbox"/>	<b>To</b> ft			
<b>Customer or Authorized Representative</b>			<b>Schlumberger Supervisor</b> Ryan Drilling/Joe Sanchez		<b>Circulation Lost</b> <input type="checkbox"/>	<b>Job Completed</b> <input checked="" type="checkbox"/>		
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