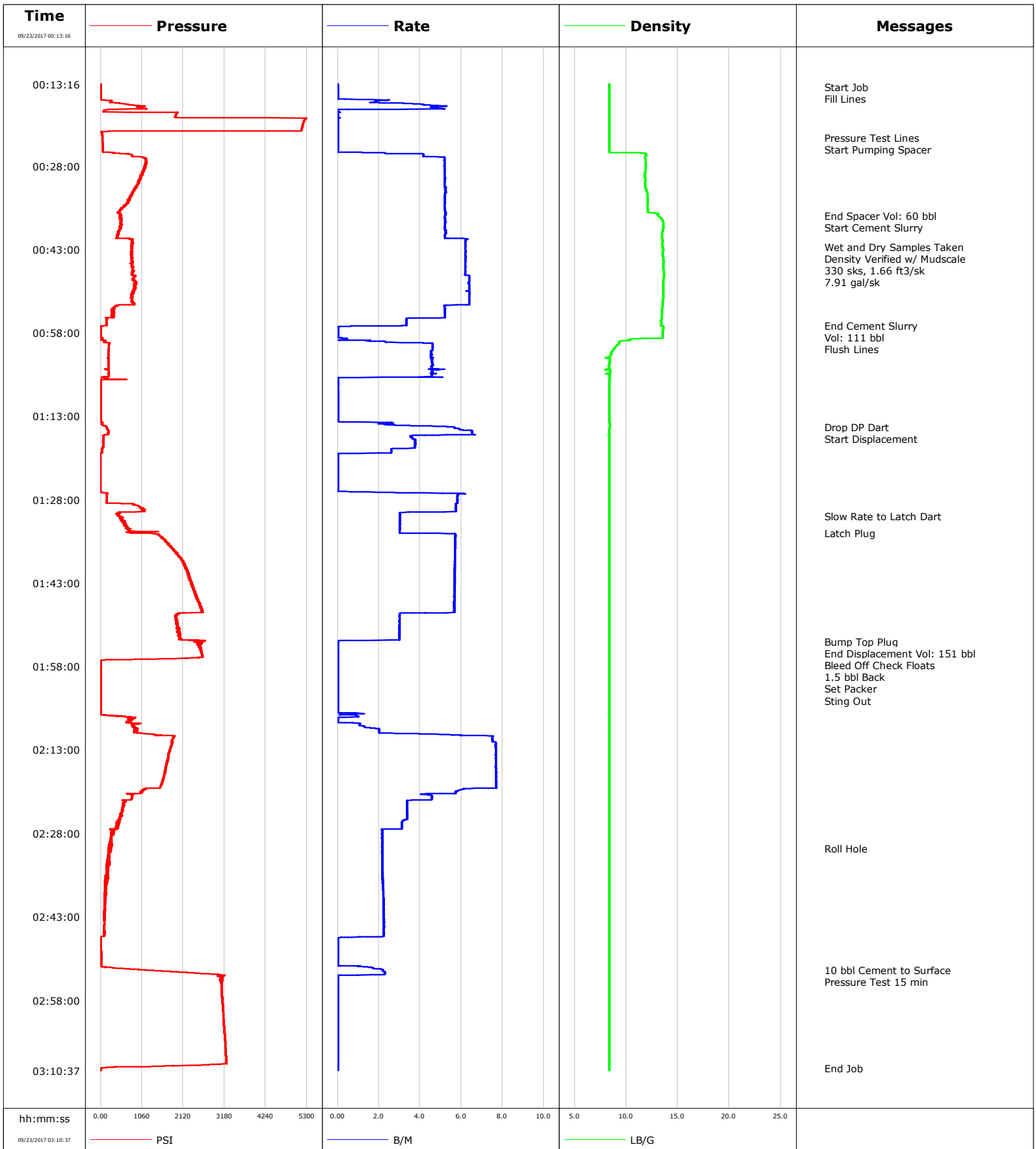


Well	Norden 2N-14HZ	Client	ANADARKO PETROLEUM COMPANY
Field	Wattenberg	SIR No.	DMBW-01467
Engineer	Billy Barg	Job Type	4.5" Liner
Country	United States	Job Date	09-22-2017



				Customer			Job Number			
				ANADARKO PETROLEUM COMPANY			DMBW-01467			
Well		Location (legal)			Schlumberger Location			Job Start		
Norden 2N-14HZ 0631692040					Cheyenne, WY			Sep/22/2017		
Field		Formation Name/Type			Deviation	Bit Size		Well MD	Well TVD	
Wattenberg					deg	6.1 in		11815.0 ft	7343.0 ft	
County		State/Province			BHP	BHST		BHCT	Pore Press. Gradient	
Weld		Colorado			psi	229 degF		225 degF	lb/gal	
Well Master		API/UWI								
0631692040		05123435730000								
Rig Name		Drilled For		Service Via	Casing/Liner					
Xtreme 24		Gas		Land						
					Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone		Well Class		Well Type	11810.0	4.5	11.6	P-110		
		New		Development	0.0	0.0	0.0			
Drilling Fluid Type		Max. Density		Plastic Viscosity	Tubing/Drill Pipe					
OBM		9.00 lb/gal		cP						
					T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line		Job Type								
Cementing		4.5" Liner								
					D	4386.0	4.0	14.0		
					D	5612.0	4.0	29.0		
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection	Perforations/Open Hole					
psi		psi		4" DP						
					Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions					ft	ft			ft	
7" 26# Previous Casing: 5,846'					ft	ft			Diameter	
6 1/8" to TD // OH Excess: 6%					ft	ft			in	
Top of Cement: 5,612'										
TD: 11,810' (7,322')					Treat Down	Displacement		Packer Type		Packer Depth
					Drill Pipe	151.0 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		psi			Shoe Type			Squeeze Type		
					Float					
Pipe Rotated		Pipe Reciprocated			Shoe Depth			Tool Type		
<input type="checkbox"/>		<input type="checkbox"/>			11810.0 ft					
No. Centralizers		Top Plugs		Bottom Plugs	Stage Tool Type			Tool Depth		
								ft		
Cement Head Type					Stage Tool Depth			Tail Pipe Size		
					ft			in		
Job Scheduled For		Arrived on Location		Leave Location	Collar Type			Tail Pipe Depth		
Sep/22/2017 19:30		Sep/22/2017 19:30		Sep/23/2017 04:00	Float			ft		
					Collar Depth			Sqz. Total Vol.		
					11761.0 ft			bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
09/23/2017	00:13:16	5	0.0	8.37	0.0	Started Acquisition				
09/23/2017	00:13:46	5	0.0	8.37	0.0	Start Job				
09/23/2017	00:13:53	5	0.0	8.37	0.0	Fill Lines				
09/23/2017	00:14:56	5	0.0	8.37	0.0					
09/23/2017	00:16:36	287	1.8	8.37	1.1					
09/23/2017	00:18:16	73	0.0	8.37	6.4					
09/23/2017	00:19:56	5221	0.0	8.37	6.4					
09/23/2017	00:21:36	5159	0.0	8.37	6.4					
09/23/2017	00:22:50	42	0.0	8.37	0.0	Pressure Test Lines				
09/23/2017	00:23:16	47	0.0	8.37	0.0					
09/23/2017	00:24:04	52	0.0	8.37	0.0	Start Pumping Spacer				
09/23/2017	00:24:56	53	0.0	8.37	0.0					
09/23/2017	00:26:36	1116	5.2	11.84	4.1					
09/23/2017	00:28:16	1150	5.2	11.91	12.7					
09/23/2017	00:29:56	1023	5.2	11.80	21.3					
09/23/2017	00:31:36	914	5.2	11.84	30.0					
09/23/2017	00:33:16	795	5.2	12.04	38.7					
09/23/2017	00:34:56	659	5.2	12.08	47.3					
09/23/2017	00:36:36	502	5.2	13.13	56.0					
09/23/2017	00:36:58	476	5.2	13.12	57.9	End Spacer Vol: 60 bbl				
09/23/2017	00:37:09	528	5.2	13.24	58.9	Start Cement Slurry				

Well		Field		Job Start		Customer		Job Number	
Norden 2N-14HZ 0631692040		Wattenberg		Sep/22/2017		ANADARKO PETROLEUM COMPANY		DMBW-01467	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/23/2017	00:39:56	471	5.2	13.49	13.4				
09/23/2017	00:41:36	811	6.2	13.53	22.6				
09/23/2017	00:42:31	797	6.2	13.53	28.3	Wet and Dry Samples Taken			
09/23/2017	00:42:40	808	6.2	13.55	29.2	Density Verified w/ Mudscales			
09/23/2017	00:43:10	805	6.2	13.58	32.3	330 sks, 1.66 ft3/sk			
09/23/2017	00:43:16	790	6.2	13.57	32.9				
09/23/2017	00:43:23	789	6.2	13.56	33.7	7.91 gal/sk			
09/23/2017	00:44:56	796	6.2	13.61	43.2				
09/23/2017	00:46:36	812	6.2	13.61	53.6				
09/23/2017	00:48:16	828	6.4	13.61	64.0				
09/23/2017	00:49:56	910	6.4	13.61	74.6				
09/23/2017	00:51:36	821	6.4	13.58	85.2				
09/23/2017	00:53:16	384	5.2	13.54	95.6				
09/23/2017	00:54:56	277	5.2	13.46	104.2				
09/23/2017	00:56:36	148	3.3	13.40	110.6				
09/23/2017	00:56:43	120	3.1	13.34	111.0	End Cement Slurry			
09/23/2017	00:56:49	13	0.6	13.66	111.2	Vol: 111 bbl			
09/23/2017	00:56:53	13	0.1	13.64	111.2	Flush Lines			
09/23/2017	00:58:16	9	0.0	13.55	0.0				
09/23/2017	00:59:56	224	4.6	9.30	1.8				
09/23/2017	01:01:36	200	4.5	8.55	9.4				
09/23/2017	01:03:16	199	4.6	8.39	17.0				
09/23/2017	01:04:56	209	4.6	8.47	24.7				
09/23/2017	01:06:36	10	0.0	8.38	0.0				
09/23/2017	01:08:16	8	0.0	8.38	0.0				
09/23/2017	01:09:56	7	0.0	8.38	0.1				
09/23/2017	01:11:36	7	0.0	8.38	0.1				
09/23/2017	01:13:16	7	0.0	8.38	0.2				
09/23/2017	01:14:53	152	5.4	8.40	2.7	Drop DP Dart			
09/23/2017	01:14:56	160	5.7	8.40	2.9				
09/23/2017	01:16:36	68	3.6	8.38	12.8				
09/23/2017	01:18:16	64	3.8	8.37	19.0				
09/23/2017	01:19:56	-4	0.0	8.37	23.2				
09/23/2017	01:21:36	-3	0.0	8.37	23.2				
09/23/2017	01:23:16	-3	0.0	8.38	23.2				
09/23/2017	01:24:56	-3	0.0	8.38	23.2				
09/23/2017	01:26:36	13	1.2	8.38	23.2				
09/23/2017	01:28:16	158	5.8	8.38	32.2				
09/23/2017	01:29:56	1104	5.7	8.38	41.8				
09/23/2017	01:31:01	512	3.0	8.37	45.8	Slow Rate to Latch Dart			
09/23/2017	01:31:36	528	3.0	8.37	47.6				
09/23/2017	01:33:16	694	3.0	8.37	52.6				
09/23/2017	01:34:01	1167	3.8	8.37	54.9	Latch Plug			
09/23/2017	01:34:56	1615	5.7	8.37	60.0				
09/23/2017	01:36:36	1831	5.7	8.37	69.5				
09/23/2017	01:38:16	2039	5.7	8.37	79.0				
09/23/2017	01:39:56	2179	5.7	8.37	88.4				
09/23/2017	01:41:36	2277	5.7	8.37	97.9				
09/23/2017	01:43:16	2368	5.7	8.37	107.3				
09/23/2017	01:44:56	2450	5.7	8.37	116.8				
09/23/2017	01:46:36	2557	5.6	8.37	126.2				
09/23/2017	01:48:16	2634	5.7	8.37	135.6				
09/23/2017	01:49:56	1952	3.0	8.37	140.9				
09/23/2017	01:51:36	2003	3.0	8.37	145.9				

Well		Field		Job Start		Customer		Job Number	
Norden 2N-14HZ 0631692040		Wattenberg		Sep/22/2017		ANADARKO PETROLEUM COMPANY		DMBW-01467	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/23/2017	01:53:27	2461	0.0	8.37	151.0	Bump Top Plug			
09/23/2017	01:53:33	2400	0.0	8.37	151.0	End Displacement Vol: 151 bbl			
09/23/2017	01:54:56	2565	0.0	8.37	151.0				
09/23/2017	01:56:17	2621	0.0	8.37	151.0	Bleed Off Check Floats			
09/23/2017	01:56:36	1734	0.0	8.37	151.0				
09/23/2017	01:57:05	5	0.0	8.37	151.0	1.5 bbl Back			
09/23/2017	01:57:13	3	0.0	8.37	151.0	Set Packer			
09/23/2017	01:58:16	4	0.0	8.37	0.0				
09/23/2017	01:59:56	4	0.0	8.37	0.0				
09/23/2017	02:01:36	4	0.0	8.38	0.0				
09/23/2017	02:03:16	3	0.0	8.38	0.0				
09/23/2017	02:04:56	5	0.0	8.38	0.0				
09/23/2017	02:06:36	9	0.2	8.37	0.2				
09/23/2017	02:08:16	997	1.1	8.37	0.8				
09/23/2017	02:09:56	932	2.0	8.37	3.5				
09/23/2017	02:11:36	1829	7.6	8.37	14.4				
09/23/2017	02:13:16	1765	7.7	8.37	27.2				
09/23/2017	02:14:56	1711	7.7	8.37	40.0				
09/23/2017	02:16:36	1651	7.7	8.37	52.8				
09/23/2017	02:18:16	1591	7.7	8.37	65.5				
09/23/2017	02:19:56	1172	6.2	8.37	78.3				
09/23/2017	02:21:36	803	4.6	8.37	87.0				
09/23/2017	02:23:16	573	3.4	8.37	93.1				
09/23/2017	02:24:56	502	3.4	8.37	98.7				
09/23/2017	02:26:36	473	3.1	8.37	104.1				
09/23/2017	02:28:16	330	2.2	8.37	108.3				
09/23/2017	02:29:56	231	2.2	8.37	111.9				
09/23/2017	02:30:41	203	2.2	8.37	113.5	Roll Hole			
09/23/2017	02:31:36	230	2.2	8.37	115.5				
09/23/2017	02:33:16	240	2.2	8.37	119.1				
09/23/2017	02:34:56	193	2.2	8.37	122.7				
09/23/2017	02:36:36	110	2.2	8.37	126.3				
09/23/2017	02:38:16	107	2.2	8.37	130.0				
09/23/2017	02:39:56	125	2.2	8.37	133.7				
09/23/2017	02:41:36	120	2.2	8.37	137.4				
09/23/2017	02:43:16	87	2.2	8.37	141.1				
09/23/2017	02:44:56	86	2.2	8.37	144.8				
09/23/2017	02:46:36	9	1.4	8.37	148.5				
09/23/2017	02:48:16	10	0.0	8.37	148.6				
09/23/2017	02:49:56	13	0.0	8.37	148.6				
09/23/2017	02:51:36	13	0.0	8.37	148.7				
09/23/2017	02:52:30	1059	2.2	8.37	1.1	10 bbl Cement to Surface			
09/23/2017	02:52:37	1290	2.2	8.37	1.3	Pressure Test 15 min			
09/23/2017	02:53:16	2798	2.3	8.37	2.8				
09/23/2017	02:54:56	3092	0.0	8.37	3.3				
09/23/2017	02:56:36	3110	0.0	8.37	3.3				
09/23/2017	02:58:16	3127	0.0	8.37	3.3				
09/23/2017	02:59:56	3144	0.0	8.37	3.3				
09/23/2017	03:01:36	3159	0.0	8.37	3.3				
09/23/2017	03:03:16	3176	0.0	8.37	3.3				
09/23/2017	03:04:56	3192	0.0	8.37	3.3				
09/23/2017	03:06:36	3207	0.0	8.37	3.3				
09/23/2017	03:08:16	3224	0.0	8.37	3.3				
09/23/2017	03:09:56	1238	0.0	8.37	3.3				

Well Norden 2N-14HZ 0631692040	Field Wattenberg	Job Start Sep/22/2017	Customer ANADARKO PETROLEUM COMPANY	Job Number DMBW-01467
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.7	N2	Mud	Maximum Rate 7.7	Total Slurry 111.0	Mud 0.0	Spacer 60.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5277	Final 5	Average 1029	Bump Plug to 2500	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 112.0 bbl	Displacement 151.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	To ft		
				Washed Thru Perfs <input type="checkbox"/>				
Customer or Authorized Representative Rick Duran			Schlumberger Supervisor Billy Barg		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>		
					-	-		