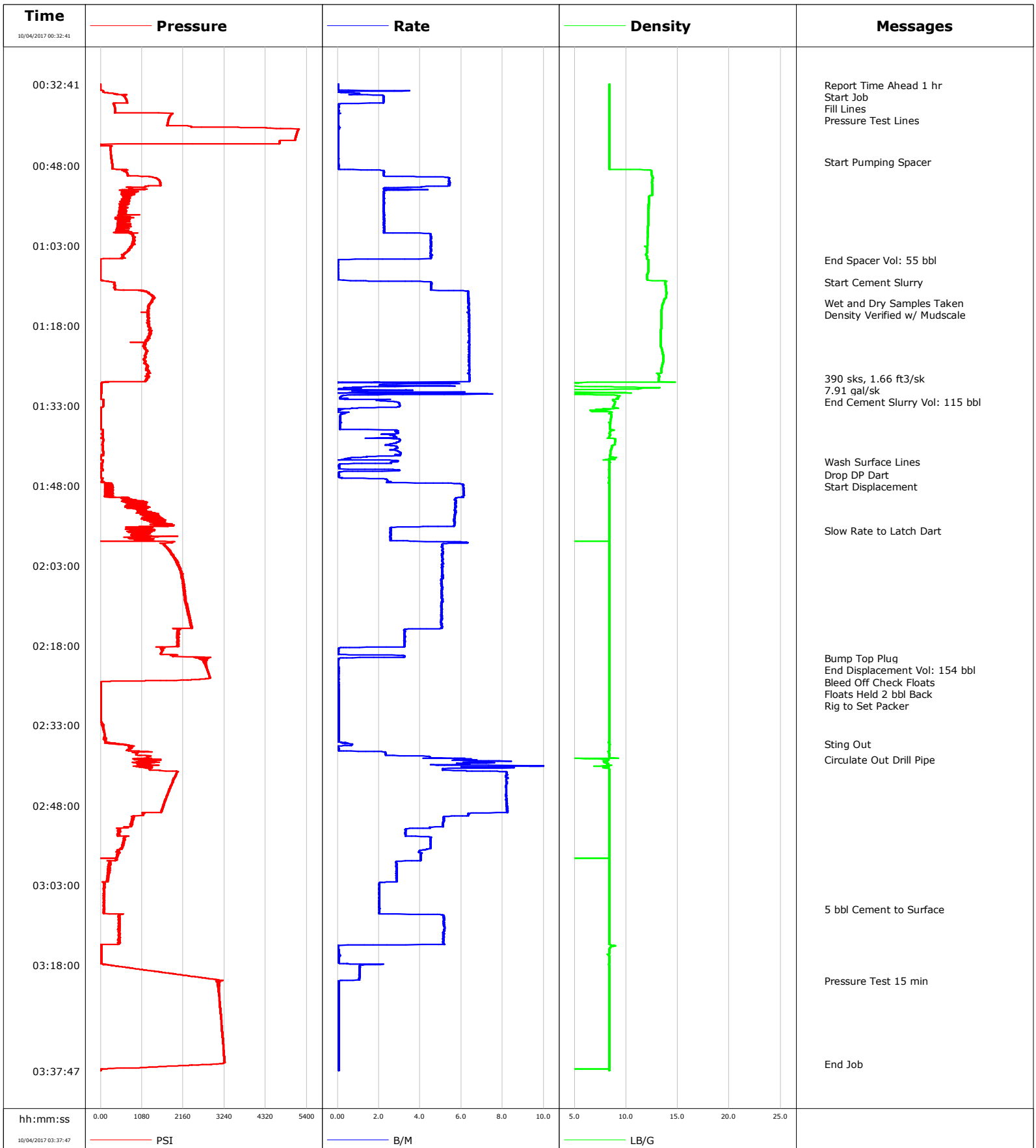


Well	NORDEN 28N-14HZ	Client	ANADARKO PETROLEUM COMPANY
Field	Wattenberg	SIR No.	DXAR-00003
Engineer	Billy Barg	Job Type	4.5" Liner
Country	United States	Job Date	10-03-2017



				Customer			Job Number			
				ANADARKO PETROLEUM COMPANY			DXAR-00003			
Well		Location (legal)			Schlumberger Location		Job Start			
NORDEN 28N-14HZ 0631692240					Cheyenne, WY		Oct/03/2017			
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD			
Wattenberg				deg	6.1 in	11950.0 ft	7396.0 ft			
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient			
Weld		Colorado		psi	229 degF	224 degF	lb/gal			
Well Master		API/UWI								
0631692240		05123435700000								
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		5892.0	7.0	26.0	C-90			
	New	Development		11945.0	5.5	11.6	p110			
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe					
OBM		9.30 lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Service Line		Job Type								
Cementing		4.5" Liner								
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection			Perforations/Open Hole					
psi	psi	4" DP Nubbin			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions 7" 26# Previous Casing: 5,892' 6 1/8" to TD // OH Excess: 6% Top of Cement: 5655' TD: 11,950' (7,396')					ft	ft			ft	
					ft	ft			Diameter	
					ft	ft			in	
Treat Down		Displacement		Packer Type		Packer Depth				
Casing		153.0 bbl				ft				
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.				
bbl		bbl		102.0 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			
psi		Float			11945.0 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			ft		in			
Cement Head Type				Collar Type		Collar Depth		Tail Pipe Depth		
				Float		11896.0 ft		ft		
Job Scheduled For		Arrived on Location		Leave Location		Sqz. Total Vol.				
Oct/03/2017 20:30		Oct/03/2017 20:30		Oct/04/2017 04:00		bbl				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
10/04/2017	00:32:41	-2	0.0	8.36	0.0	Started Acquisition				
10/04/2017	00:32:50	-1	0.0	8.36	0.0	Report Time Ahead 1 hr				
10/04/2017	00:32:56	-2	0.0	8.36	0.0	Start Job				
10/04/2017	00:33:03	-2	0.0	8.36	0.0	Fill Lines				
10/04/2017	00:34:21	201	0.9	8.36	0.1					
10/04/2017	00:36:01	688	2.2	8.35	3.3					
10/04/2017	00:37:41	381	0.0	8.35	4.0					
10/04/2017	00:38:25	1847	0.0	8.35	4.1	Pressure Test Lines				
10/04/2017	00:39:21	1777	0.0	8.35	4.1					
10/04/2017	00:41:01	4708	0.1	8.35	4.2					
10/04/2017	00:42:41	5103	0.0	8.36	0.0					
10/04/2017	00:44:21	295	0.0	8.36	0.1					
10/04/2017	00:46:01	270	0.0	8.36	0.1					
10/04/2017	00:47:14	292	0.0	8.36	0.1	Start Pumping Spacer				
10/04/2017	00:47:41	298	0.0	8.36	0.1					
10/04/2017	00:49:21	685	2.2	12.44	1.5					
10/04/2017	00:51:01	1552	5.4	12.51	8.3					
10/04/2017	00:52:41	902	2.3	12.53	15.4					
10/04/2017	00:54:21	703	2.2	12.18	19.1					
10/04/2017	00:56:01	654	2.2	12.18	22.8					
10/04/2017	00:57:41	688	2.2	12.15	26.5					

Well		Field		Job Start		Customer		Job Number	
NORDEN 28N-14HZ 0631692240		Wattenberg		Oct/03/2017		ANADARKO PETROLEUM COMPANY		DXAR-00003	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/04/2017	01:01:01	857	4.5	12.08	34.9				
10/04/2017	01:02:41	829	4.5	12.05	42.4				
10/04/2017	01:04:21	643	4.5	11.99	49.9				
10/04/2017	01:05:34	-5	0.3	12.13	55.2	End Spacer Vol: 55 bbl			
10/04/2017	01:06:01	-4	0.0	12.17	0.0				
10/04/2017	01:07:41	-2	0.0	12.14	0.0				
10/04/2017	01:09:21	-1	0.0	12.06	0.1				
10/04/2017	01:09:50	312	4.5	13.79	1.0	Start Cement Slurry			
10/04/2017	01:11:01	375	4.5	13.85	6.3				
10/04/2017	01:12:41	1376	6.3	13.89	16.2				
10/04/2017	01:13:46	1305	6.3	13.58	23.0	Wet and Dry Samples Taken			
10/04/2017	01:14:00	1264	6.4	13.53	24.5	Density Verified w/ Mudscales			
10/04/2017	01:14:21	1265	6.3	13.50	26.6				
10/04/2017	01:16:01	1239	6.4	13.40	37.3				
10/04/2017	01:17:41	1253	6.4	13.38	47.9				
10/04/2017	01:19:21	1278	6.4	13.37	58.5				
10/04/2017	01:21:01	1170	6.4	13.35	69.2				
10/04/2017	01:22:41	1200	6.4	13.50	79.8				
10/04/2017	01:24:21	1141	6.4	13.58	90.4				
10/04/2017	01:26:01	1216	6.4	13.41	101.0				
10/04/2017	01:27:41	1256	6.4	13.19	111.6				
10/04/2017	01:27:53	1196	6.4	13.15	112.9	390 sks, 1.66 ft3/sk			
10/04/2017	01:28:08	1186	6.4	13.15	114.5	7.91 gal/sk			
10/04/2017	01:28:26	1175	6.4	13.14	116.4	End Cement Slurry Vol: 115 bbl			
10/04/2017	01:29:21	15	4.2	3.66	119.6				
10/04/2017	01:31:01	12	0.6	8.62	122.8				
10/04/2017	01:32:41	65	3.0	8.87	2.2				
10/04/2017	01:34:21	7	0.2	8.54	4.5				
10/04/2017	01:36:01	6	0.1	8.46	4.8				
10/04/2017	01:37:41	65	2.9	8.64	5.4				
10/04/2017	01:39:21	66	3.0	8.94	9.9				
10/04/2017	01:41:01	57	2.9	8.59	14.6				
10/04/2017	01:42:41	7	1.1	8.73	19.1				
10/04/2017	01:43:27	62	2.9	8.37	20.1	Wash Surface Lines			
10/04/2017	01:44:21	35	0.1	8.36	21.2				
10/04/2017	01:45:56	6	0.1	8.35	22.4	Drop DP Dart			
10/04/2017	01:45:57	5	0.1	8.35	22.4	Start Displacement			
10/04/2017	01:46:01	6	0.1	8.35	22.4				
10/04/2017	01:47:41	293	6.0	8.35	3.1				
10/04/2017	01:49:21	327	6.1	8.35	13.2				
10/04/2017	01:51:01	1214	5.7	8.35	23.1				
10/04/2017	01:52:41	1190	5.7	8.35	32.6				
10/04/2017	01:54:21	1238	5.6	8.36	42.1				
10/04/2017	01:56:01	1295	2.6	8.36	50.6				
10/04/2017	01:56:27	772	2.6	8.36	51.7	Slow Rate to Latch Dart			
10/04/2017	01:57:41	617	2.6	8.36	54.9				
10/04/2017	01:59:21	1702	5.1	8.35	61.8				
10/04/2017	02:01:01	1894	5.1	8.36	70.3				
10/04/2017	02:02:41	2040	5.1	8.37	78.7				
10/04/2017	02:04:21	2099	5.1	8.35	87.2				
10/04/2017	02:06:01	2133	5.0	8.36	95.6				
10/04/2017	02:07:41	2197	5.0	8.36	104.0				
10/04/2017	02:09:21	2187	5.1	8.35	112.4				
10/04/2017	02:11:01	2261	5.0	8.36	120.8				

Well		Field		Job Start		Customer		Job Number	
NORDEN 28N-14HZ 0631692240		Wattenberg		Oct/03/2017		ANADARKO PETROLEUM COMPANY		DXAR-00003	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/04/2017	02:14:21	2362	5.0	8.35	137.6				
10/04/2017	02:16:01	1994	3.2	8.35	144.0				
10/04/2017	02:17:41	2004	3.3	8.35	149.4				
10/04/2017	02:19:21	1586	0.0	8.35	151.6				
10/04/2017	02:20:18	2640	0.4	8.35	153.2	Bump Top Plug			
10/04/2017	02:20:19	2674	0.3	8.35	153.2	End Displacement Vol: 154 bbl			
10/04/2017	02:21:01	2751	0.0	8.36	153.2				
10/04/2017	02:22:41	2800	0.1	8.36	153.3				
10/04/2017	02:24:21	2607	0.1	8.36	153.4				
10/04/2017	02:24:50	6	0.0	8.36	153.4	Bleed Off Check Floats			
10/04/2017	02:24:56	2	0.1	8.36	153.4	Floats Held 2 bbl Back			
10/04/2017	02:25:41	6	0.1	8.36	153.4	Rig to Set Packer			
10/04/2017	02:26:01	6	0.1	8.36	153.4				
10/04/2017	02:27:41	7	0.1	8.36	0.0				
10/04/2017	02:29:21	3	0.1	8.36	0.1				
10/04/2017	02:31:01	5	0.1	8.36	0.2				
10/04/2017	02:32:41	63	0.1	8.36	0.3				
10/04/2017	02:34:21	93	0.1	8.37	0.4				
10/04/2017	02:36:01	143	0.1	8.37	0.5				
10/04/2017	02:36:29	513	0.7	8.39	0.6	Sting Out			
10/04/2017	02:37:41	685	0.1	8.35	0.9				
10/04/2017	02:39:21	1349	6.3	8.14	6.0	Circulate Out Drill Pipe			
10/04/2017	02:41:01	1188	5.9	8.20	17.6				
10/04/2017	02:42:41	1949	8.2	8.36	29.6				
10/04/2017	02:44:21	1835	8.2	8.36	43.3				
10/04/2017	02:46:01	1734	8.2	8.36	56.9				
10/04/2017	02:47:41	1673	8.2	8.36	70.5				
10/04/2017	02:49:21	1332	8.2	8.36	84.2				
10/04/2017	02:51:01	808	5.1	8.36	93.7				
10/04/2017	02:52:41	467	3.3	8.35	101.4				
10/04/2017	02:54:21	628	4.5	8.35	107.5				
10/04/2017	02:56:01	540	4.5	8.35	115.0				
10/04/2017	02:57:41	415	4.0	8.35	121.8				
10/04/2017	02:59:21	252	2.8	8.35	127.4				
10/04/2017	03:01:01	183	2.9	8.35	132.2				
10/04/2017	03:02:41	99	2.0	8.35	136.7				
10/04/2017	03:04:21	83	2.0	8.35	140.1				
10/04/2017	03:06:01	89	2.0	8.35	143.4				
10/04/2017	03:07:25	93	2.0	8.36	146.3	5 bbl Cement to Surface			
10/04/2017	03:07:41	97	2.0	8.36	146.8				
10/04/2017	03:09:21	495	5.1	8.36	153.1				
10/04/2017	03:11:01	491	5.2	8.36	161.6				
10/04/2017	03:12:41	508	5.1	8.36	170.2				
10/04/2017	03:14:21	15	0.0	8.93	177.8				
10/04/2017	03:16:01	14	0.1	8.33	177.9				
10/04/2017	03:17:41	11	0.5	8.35	0.0				
10/04/2017	03:19:21	1635	1.1	8.36	1.9				
10/04/2017	03:20:49	3152	0.2	8.36	3.4	Pressure Test 15 min			
10/04/2017	03:21:01	3115	0.1	8.36	3.4				
10/04/2017	03:22:41	3097	0.1	8.36	3.5				
10/04/2017	03:24:21	3109	0.1	8.36	3.6				
10/04/2017	03:26:01	3127	0.1	8.36	3.7				
10/04/2017	03:27:41	3147	0.1	8.36	3.8				
10/04/2017	03:29:21	3165	0.1	8.36	3.9				

Well NORDEN 28N-14HZ 0631692240		Field Wattenberg		Job Start Oct/03/2017		Customer ANADARKO PETROLEUM COMPANY		Job Number DXAR-00003	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/04/2017	03:32:41	3203	0.1	8.36	4.1				
10/04/2017	03:34:21	3222	0.1	8.36	4.2				
10/04/2017	03:36:01	3238	0.1	8.36	4.2				
10/04/2017	03:36:31	3054	0.1	8.37	4.3	End Job			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 2.9	N2	Mud	Maximum Rate 10.6		Total Slurry 115.0	Mud 0.0	Spacer 55.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5184	Final 3	Average 1180	Bump Plug to 2640	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 115.0 bbl		Displacement 153.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 5.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Rick Duran			Schlumberger Supervisor Billy Barg			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
					-		-	