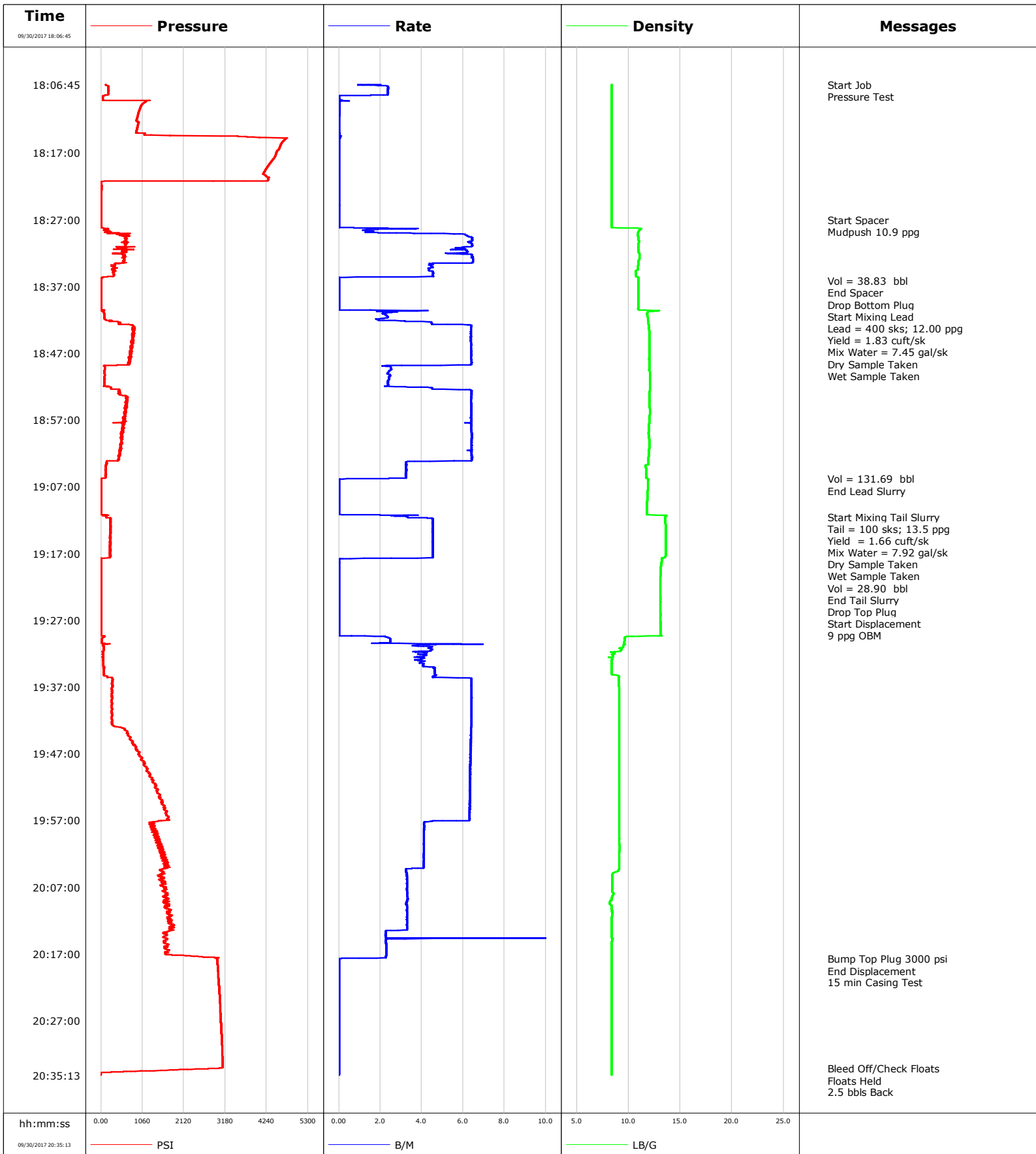


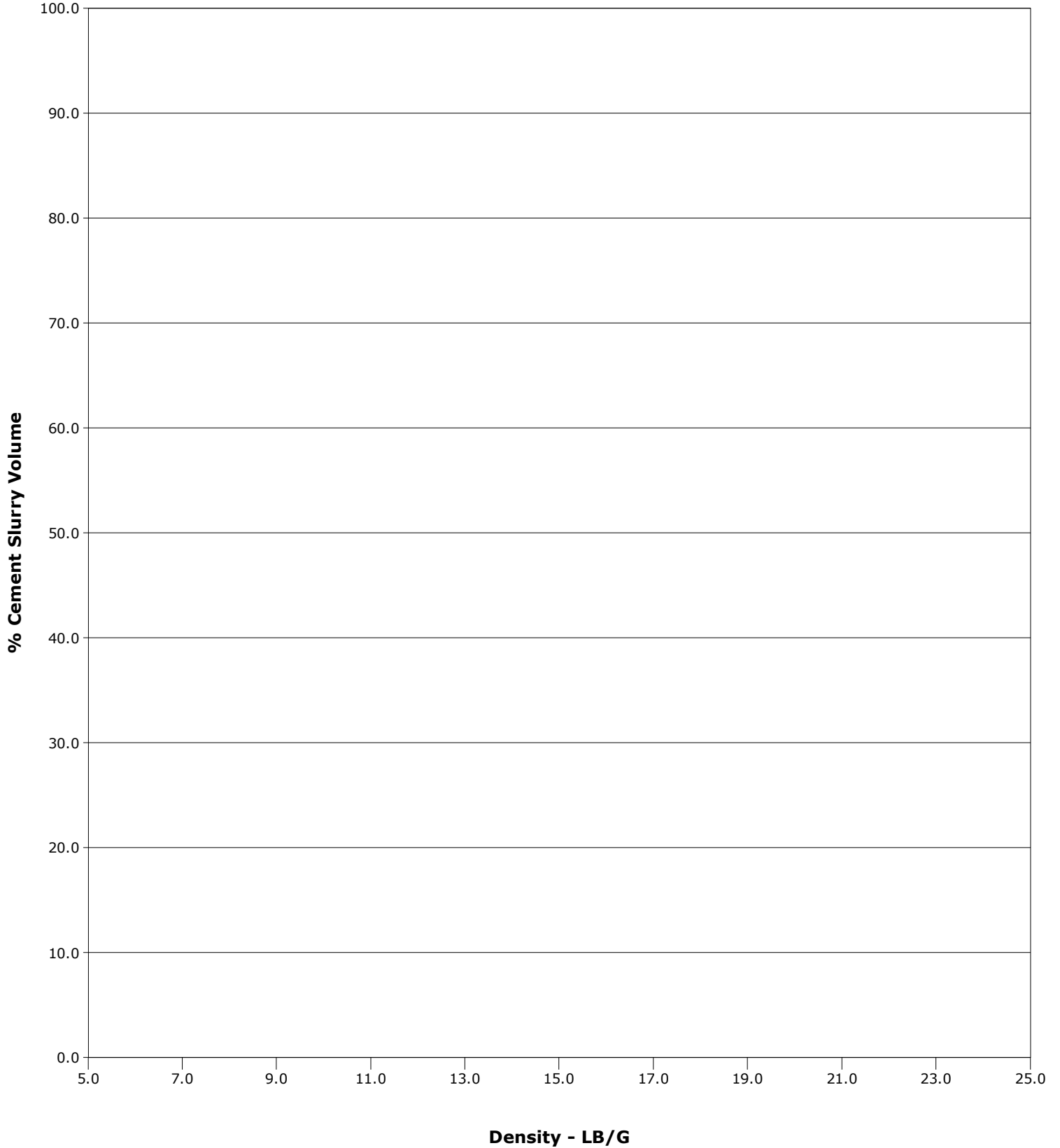
Well	NORDEN - 28N-14HZ	Client	ANADARKO PETROLEUM COMPANY
Field	Wattenberg	SIR No.	DMBW-01527
Engineer	Michael Lopez	Job Type	7" Intermediate
Country	United States	Job Date	09-30-2017



Well NORDEN - 28N-14HZ
Field Wattenberg
Engineer Michael Lopez
Country United States

Client ANADARKO PETROLEUM COMPANY
SIR No. DMBW-01527
Job Type 7" Intermediate
Job Date 09-30-2017

- 08/20/1973 00:38:48 to 05/10/1972 01:54:16



				Customer			Job Number				
				ANADARKO PETROLEUM COMPANY			DMBW-01527				
Well		Location (legal)			Schlumberger Location			Job Start			
NORDEN - 28N-14HZ 0631692240					Cheyenne			Sep/30/2017			
Field		Formation Name/Type			Deviation		Bit Size		Well MD	Well TVD	
Wattenberg					deg		8.5 in		5892.0 ft	5791.0 ft	
County		State/Province			BHP		BHST		BHCT		Pore Press. Gradient
Weld		Colorado			psi		198 degF		148 degF		lb/gal
Well Master		API/UWI									
0631692240		05123435700000									
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		1874.0	9.6	36.0	J55	8RD	
		New		Development		5892.0	7.0	26.0	N80	8RD	
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		7" Intermediate									
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole					
psi		psi		7" 8rnd							
						Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions						ft	ft			ft	
9 5/8" 36# Previous Casing: 1,874'						ft	ft			Diameter	
8 1/2" to TD // OH Excess: 6%						ft	ft			in	
Top of Lead Cement: 0'											
Top of Tail Cement: 4,892'											
TD: 5,892' (5,791')						Treat Down	Displacement	Packer Type	Packer Depth		
						Casing	223.0 bbl		ft		
						Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.		
						bbl	225.0 bbl	146.0 bbl	90.7 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		Float		Squeeze Type		
Pipe Rotated		Pipe Reciprocated				Shoe Depth		5892.0 ft		Tool Type	
<input type="checkbox"/>		<input type="checkbox"/>									
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type			Tool Depth		
		1		1					ft		
Cement Head Type		Double			Stage Tool Depth		ft		Tail Pipe Size		
									in		
Job Scheduled For		Arrived on Location		Leave Location		Collar Type		Float		Tail Pipe Depth	
Sep/30/2017 16:00		Sep/30/2017 16:00		Sep/30/2017 22:00						ft	
						Collar Depth		5852.6 ft		Sqz. Total Vol.	
										bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
09/30/2017	18:06:45	143	2.0	8.38	0.0	Safety Meeting Complete					
09/30/2017	18:06:46	126	1.4	8.38	0.0	Pressure Test					
09/30/2017	18:08:45	46	0.0	8.38	3.7						
09/30/2017	18:10:45	972	0.0	8.38	3.8						
09/30/2017	18:12:45	946	0.0	8.38	3.8						
09/30/2017	18:14:45	4222	0.1	8.38	3.9						
09/30/2017	18:16:45	4501	0.0	8.38	3.9						
09/30/2017	18:18:45	4301	0.0	8.38	3.9						
09/30/2017	18:20:45	4287	0.0	8.38	3.9						
09/30/2017	18:22:45	12	0.0	8.38	0.0						
09/30/2017	18:24:45	12	0.0	8.38	0.0						
09/30/2017	18:26:45	11	0.0	8.37	0.0						
09/30/2017	18:27:00	11	0.0	8.37	0.0	Start Spacer					
09/30/2017	18:27:01	12	0.0	8.37	0.0	Mudpush 10.9 ppg					
09/30/2017	18:28:45	171	1.7	10.99	1.0						
09/30/2017	18:30:45	626	6.5	10.95	12.2						
09/30/2017	18:32:45	606	6.5	11.05	24.5						
09/30/2017	18:34:45	331	4.5	10.66	35.0						
09/30/2017	18:36:09	7	0.0	10.96	38.8	Vol = 38.83 bbl					
09/30/2017	18:36:10	7	0.0	10.97	38.8	End Spacer					
09/30/2017	18:36:45	4	0.0	10.96	38.8						

Well NORDEN - 28N-14HZ 0631692240			Field Wattenberg		Job Start Sep/30/2017	Customer ANADARKO PETROLEUM COMPANY	Job Number DMBW-01527
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/30/2017	18:39:46	5	0.0	10.95	38.8	Drop Bottom Plug	
09/30/2017	18:40:45	29	1.8	12.65	39.4		
09/30/2017	18:41:05	78	2.1	11.79	40.1	Start Mixing Lead	
09/30/2017	18:41:36	81	2.4	11.84	41.3	Lead = 400 sks; 12.00 ppg	
09/30/2017	18:41:37	81	2.4	11.85	41.3	Yield = 1.83 cuft/sk	
09/30/2017	18:41:38	81	2.4	11.85	41.4	Mix Water = 7.45 gal/sk	
09/30/2017	18:41:39	81	2.4	11.85	41.4	Dry Sample Taken	
09/30/2017	18:42:45	712	6.2	11.94	45.0		
09/30/2017	18:43:23	859	6.4	11.98	49.0	Wet Sample Taken	
09/30/2017	18:44:45	792	6.4	12.00	57.7		
09/30/2017	18:46:45	742	6.4	12.00	70.5		
09/30/2017	18:48:45	734	6.4	12.02	83.3		
09/30/2017	18:50:45	89	2.4	12.04	88.5		
09/30/2017	18:52:45	452	6.4	12.03	95.2		
09/30/2017	18:54:45	639	6.4	12.03	108.0		
09/30/2017	18:56:45	562	6.4	12.02	120.8		
09/30/2017	18:58:45	564	6.4	11.96	133.5		
09/30/2017	19:00:45	494	6.4	12.00	146.3		
09/30/2017	19:02:45	463	6.4	11.92	159.2		
09/30/2017	19:04:45	119	3.3	11.71	167.1		
09/30/2017	19:05:48	22	1.8	11.76	170.5	Vol = 131.69 bbl	
09/30/2017	19:05:49	22	1.0	11.84	170.5	End Lead Slurry	
09/30/2017	19:06:45	5	0.0	11.85	170.6		
09/30/2017	19:08:45	6	0.0	11.84	170.6		
09/30/2017	19:10:45	5	0.0	11.76	170.6		
09/30/2017	19:11:33	154	3.3	13.52	171.5	Start Mixing Tail Slurry	
09/30/2017	19:11:43	239	4.3	13.52	172.0	Tail = 100 sks; 13.5 ppg	
09/30/2017	19:11:44	240	4.5	13.52	172.1	Yield = 1.66 cuft/sk	
09/30/2017	19:11:45	242	4.5	13.52	172.2	Mix Water = 7.92 gal/sk	
09/30/2017	19:11:46	242	4.5	13.52	172.3	Dry Sample Taken	
09/30/2017	19:12:45	241	4.5	13.57	176.7		
09/30/2017	19:13:18	240	4.5	13.60	179.2	Wet Sample Taken	
09/30/2017	19:14:45	228	4.5	13.58	185.8		
09/30/2017	19:16:45	224	4.5	13.58	194.9		
09/30/2017	19:17:54	8	0.0	13.20	199.5	Vol = 28.90 bbl	
09/30/2017	19:17:55	9	0.0	13.20	199.5	End Tail Slurry	
09/30/2017	19:18:45	8	0.0	13.15	199.5		
09/30/2017	19:20:45	9	0.0	13.08	199.5		
09/30/2017	19:22:45	8	0.0	13.08	199.5		
09/30/2017	19:24:06	8	0.0	13.08	199.5	Drop Top Plug	
09/30/2017	19:24:09	7	0.0	13.08	199.5	Start Displacement	
09/30/2017	19:24:10	7	0.0	13.09	199.5	9 ppg OBM	
09/30/2017	19:24:45	8	0.0	13.08	199.5		
09/30/2017	19:26:45	7	0.0	13.09	199.5		
09/30/2017	19:28:45	7	0.0	13.09	199.5		
09/30/2017	19:30:45	51	3.8	9.52	203.2		
09/30/2017	19:32:45	57	4.0	8.41	211.5		
09/30/2017	19:34:45	73	4.6	8.39	220.0		
09/30/2017	19:36:45	299	6.4	9.06	231.1		
09/30/2017	19:38:45	285	6.4	9.08	244.0		
09/30/2017	19:40:45	271	6.4	9.08	256.8		
09/30/2017	19:42:45	293	6.4	9.08	269.6		
09/30/2017	19:44:45	747	6.4	9.08	282.3		
09/30/2017	19:46:45	971	6.3	9.08	295.0		

Well		Field		Job Start		Customer		Job Number	
NORDEN - 28N-14HZ 0631692240		Wattenberg		Sep/30/2017		ANADARKO PETROLEUM COMPANY		DMBW-01527	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/30/2017	19:50:45	1317	6.3	9.08	320.4				
09/30/2017	19:52:45	1436	6.3	9.08	333.1				
09/30/2017	19:54:45	1612	6.3	9.09	345.7				
09/30/2017	19:56:45	1699	6.3	9.10	358.4				
09/30/2017	19:58:45	1321	4.1	9.10	367.4				
09/30/2017	20:00:45	1461	4.1	9.12	375.6				
09/30/2017	20:02:45	1545	4.1	9.11	383.8				
09/30/2017	20:04:45	1607	3.3	8.82	391.5				
09/30/2017	20:06:45	1554	3.3	8.41	398.1				
09/30/2017	20:08:45	1717	3.3	8.38	404.7				
09/30/2017	20:10:45	1675	3.3	8.40	411.2				
09/30/2017	20:12:45	1823	3.3	8.39	417.8				
09/30/2017	20:14:45	1697	4.6	8.48	424.1				
09/30/2017	20:16:45	1639	2.3	8.39	428.8				
09/30/2017	20:17:44	2986	0.1	8.39	430.9	Bump Top Plug 3000 psi			
09/30/2017	20:17:45	2962	0.0	8.39	430.9	End Displacement			
09/30/2017	20:18:03	2973	0.0	8.39	430.9	15 min Casing Test			
09/30/2017	20:18:45	2981	0.0	8.39	430.9				
09/30/2017	20:20:45	3006	0.0	8.39	430.9				
09/30/2017	20:22:45	3027	0.0	8.39	430.9				
09/30/2017	20:24:45	3045	0.0	8.39	430.9				
09/30/2017	20:26:45	3064	0.0	8.39	430.9				
09/30/2017	20:28:45	3079	0.0	8.39	431.0				
09/30/2017	20:30:45	3095	0.0	8.39	431.0				
09/30/2017	20:32:45	3109	0.0	8.39	431.0				
09/30/2017	20:34:11	3023	0.0	8.39	431.0	Bleed Off/Check Floats			
09/30/2017	20:34:45	324	0.0	8.39	431.0				
09/30/2017	20:34:50	30	0.0	8.39	431.0	Floats Held			
09/30/2017	20:34:51	6	0.0	8.39	431.0	2.5 bbls Back			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
					154.0		40.0	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
3000	0		3000			bbl		lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume	
%	154.0 bbl		223.0 bbl	65 degF	<input checked="" type="checkbox"/>		7.0 bbl	
Customer or Authorized Representative			Schlumberger Supervisor		Washed Thru Perfs		To	
Rick Duran			Michael Lopez		<input type="checkbox"/>		ft	
					Circulation Lost		Job Completed	
					<input type="checkbox"/>		<input checked="" type="checkbox"/>	
					-		-	