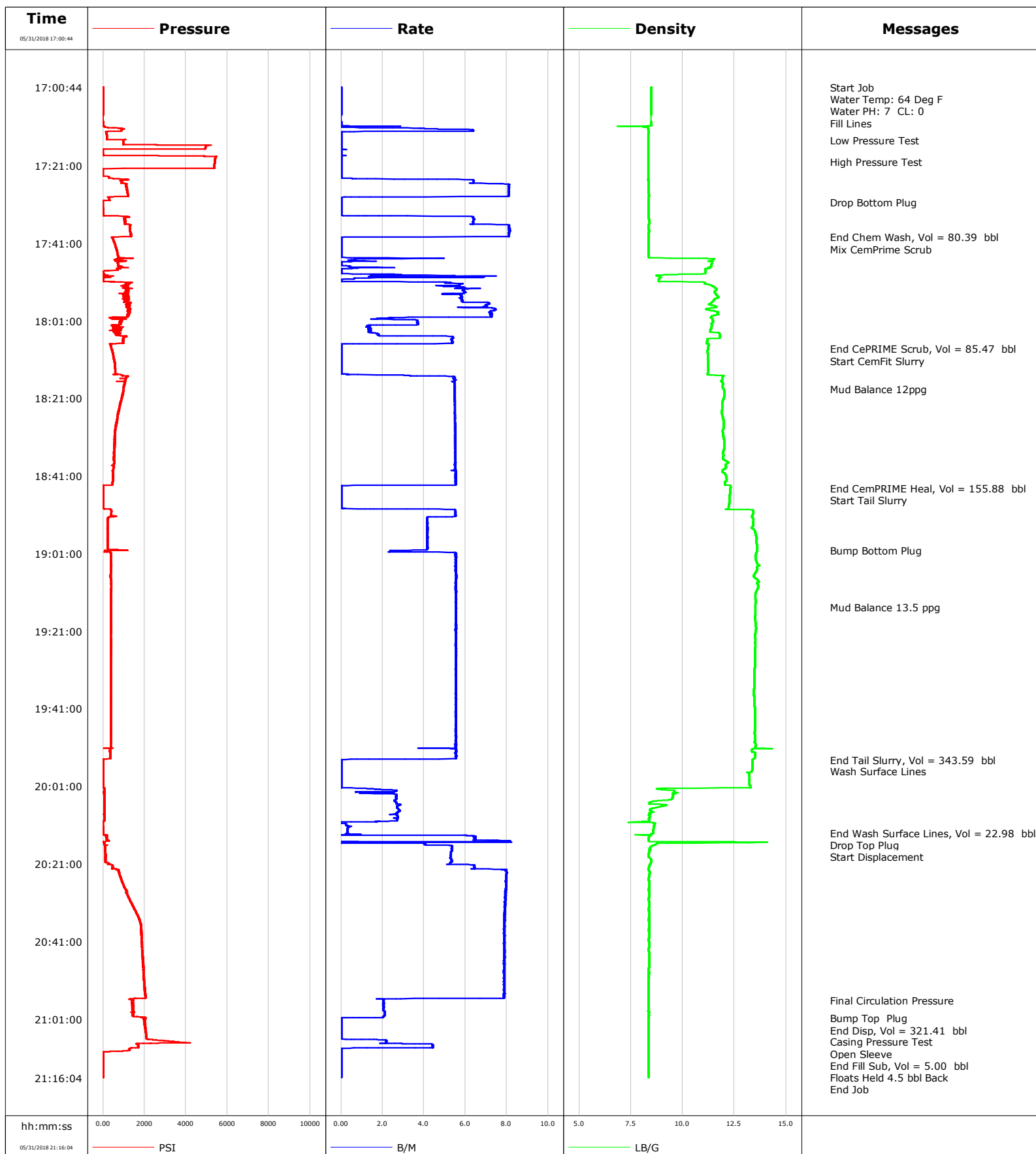


Well Daisy 31E 232 - 232
Field Wattenberg
Engineer Adam Aasen
Country United States

Client PDC ENERGY, INC
SIR No. 2738689
Job Type
Job Date 05-31-2018



Cementing Service Report

				Customer PDC ENERGY, INC			Job Number 2738689	
Well Daisy 31E 232 - 232			Location (legal)			Schlumberger Location Schlumberger		Job Start May/31/2018
Field Wattenberg		Formation Name/Type		Deviation 90 deg	Bit Size 8.5 in	Well MD 14500.0 ft		Well TVD 6830.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 218 degF	BHCT 203 degF	Pore Press. Gradient lb/gal	
Well Master 0631733210		API/UWI						
Rig Name ENSIGN 161	Drilled For Oil & Gas	Service Via Land		Casing/ Liner				
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class New	Well Type New Well Completion		2534.0	9.6	36.0	J55	BTC
				14496.0	5.5	20.0	C-90	BTC
Drilling Fluid Type Other		Max. Density 10.50 lb/gal	Plastic Viscosity 54.000 cP	Tubing/Drill Pipe				
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade Thread
Service Line Cementing		Job Type						
Max. Allowed Tub. Press 5000 psi		Max. Allowed Ann. Press 3000 psi	WH Connection Single Cement head	Perforations/Open Hole				
				Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
				ft	ft			ft
				ft	ft			Diameter
				ft	ft			in
				Treat Down Casing	Displacement 321.1 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. bbl	Casing Vol. 321.8 bbl	Annular Vol. 121.4 bbl	Openhole Vol. 488.0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools			Squeeze Job	
Lift Pressure psi				Shoe Type Float			Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 14496.0 ft			Tool Type	
No. Centralizers 204	Top Plugs 1	Bottom Plugs 1		Stage Tool Type			Tool Depth ft	
Cement Head Type Single				Stage Tool Depth ft			Tail Pipe Size in	
Job Scheduled For May/31/2018 12:00		Arrived on Location May/31/2018 12:15		Leave Location May/31/2018 22:00			Collar Type Float	
							Tail Pipe Depth ft	
							Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
05/31/2018	17:00:44	18	0.0	8.48	0.0	Started Acquisition		
05/31/2018	17:00:45	18	0.0	8.49	0.0	Start Job		
05/31/2018	17:00:48	18	0.0	8.49	0.0	Water Temp: 64 Deg F		
05/31/2018	17:00:50	18	0.0	8.49	0.0	Water PH: 7 CL: 0		
05/31/2018	17:01:14	18	0.0	8.49	0.0	Fill Lines		
05/31/2018	17:05:44	17	0.0	8.49	0.0			
05/31/2018	17:10:44	1	0.0	8.49	0.0			
05/31/2018	17:14:23	984	0.0	8.35	5.4	Low Pressure Test		
05/31/2018	17:15:44	5219	0.0	8.35	5.4			
05/31/2018	17:20:04	5390	0.0	8.35	5.4	High Pressure Test		
05/31/2018	17:20:44	5381	0.0	8.35	5.4			
05/31/2018	17:25:44	1132	8.0	8.36	13.8			
05/31/2018	17:30:18	-9	0.0	8.36	40.5	Drop Bottom Plug		
05/31/2018	17:30:44	-8	0.0	8.36	40.5			
05/31/2018	17:35:44	1099	6.4	8.39	51.7			
05/31/2018	17:39:26	463	0.3	8.37	80.4	End Chem Wash, Vol = 80.39 bbl		
05/31/2018	17:39:43	457	0.0	8.37	0.0	Mix CemPrime Scrub		
05/31/2018	17:40:44	535	0.0	8.37	0.0			
05/31/2018	17:45:44	716	0.5	11.43	1.3			
05/31/2018	17:50:44	7	0.0	8.84	6.0			
05/31/2018	17:55:44	1218	5.9	11.49	33.6			

Well			Field	Job Start		Customer		Job Number	
Daisy 31E 232 - 232			Wattenberg		May/31/2018		PDC ENERGY, INC		2738689
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/31/2018	18:05:44	990	5.3	11.18	79.3				
05/31/2018	18:08:13	411	0.0	11.23	85.5	End CePRIME Scrub, Vol = 85.47 bbl			
05/31/2018	18:08:16	414	0.0	11.23	0.0	Start CemFit Slurry			
05/31/2018	18:10:44	520	0.0	11.21	0.0				
05/31/2018	18:15:44	1120	5.5	11.92	3.8				
05/31/2018	18:18:34	1006	5.5	11.97	19.3	Mud Balance 12ppg			
05/31/2018	18:20:44	908	5.5	11.99	31.2				
05/31/2018	18:25:44	691	5.5	11.93	58.7				
05/31/2018	18:30:44	568	5.5	11.96	86.2				
05/31/2018	18:35:44	548	5.5	11.97	113.7				
05/31/2018	18:40:44	487	5.5	12.07	141.3				
05/31/2018	18:44:05	2	0.0	12.30	155.9	End CemPRIME Heal, Vol = 155.88 bbl			
05/31/2018	18:45:14	3	0.0	12.28	0.0	Start Tail Slurry			
05/31/2018	18:45:44	3	0.0	12.27	0.0				
05/31/2018	18:50:44	394	5.5	13.40	6.9				
05/31/2018	18:55:44	233	4.2	13.51	28.7				
05/31/2018	19:00:09	271	3.3	13.58	47.0	Bump Bottom Plug			
05/31/2018	19:00:44	371	5.5	13.56	48.9				
05/31/2018	19:05:44	378	5.5	13.53	76.6				
05/31/2018	19:10:44	389	5.6	13.55	104.3				
05/31/2018	19:14:51	379	5.5	13.50	127.1	Mud Balance 13.5 ppg			
05/31/2018	19:15:44	383	5.5	13.50	132.0				
05/31/2018	19:20:44	374	5.5	13.54	159.7				
05/31/2018	19:25:44	375	5.5	13.49	187.4				
05/31/2018	19:30:44	378	5.5	13.47	215.1				
05/31/2018	19:35:44	367	5.5	13.45	242.8				
05/31/2018	19:40:44	381	5.5	13.47	270.5				
05/31/2018	19:45:44	377	5.5	13.49	298.2				
05/31/2018	19:50:44	374	5.5	13.51	325.9				
05/31/2018	19:54:05	11	0.0	13.37	343.6	End Tail Slurry, Vol = 343.59 bbl			
05/31/2018	19:54:14	10	0.0	13.37	0.0	Wash Surface Lines			
05/31/2018	19:55:44	8	0.0	13.36	0.0				
05/31/2018	20:00:44	8	0.0	13.25	0.0				
05/31/2018	20:05:44	71	2.9	9.18	10.4				
05/31/2018	20:10:44	-4	0.3	8.63	22.3				
05/31/2018	20:12:53	3	0.3	8.58	23.0	End Wash Surface Lines, Vol = 22.98 bbl			
05/31/2018	20:12:54	3	0.3	8.58	0.0	Drop Top Plug			
05/31/2018	20:12:55	3	0.3	8.58	0.0	Start Displacement			
05/31/2018	20:15:44	56	4.0	8.76	12.3				
05/31/2018	20:20:44	256	5.3	8.46	38.4				
05/31/2018	20:25:44	927	8.0	8.39	75.4				
05/31/2018	20:30:44	1334	7.9	8.38	115.1				
05/31/2018	20:35:44	1790	7.9	8.37	154.6				
05/31/2018	20:40:44	1863	7.9	8.37	194.0				
05/31/2018	20:45:44	1942	7.9	8.38	233.4				
05/31/2018	20:50:44	1975	7.9	8.37	272.7				
05/31/2018	20:55:44	1327	1.8	8.37	311.5				
05/31/2018	20:56:05	1460	2.1	8.37	312.2	Final Circulation Pressure			
05/31/2018	21:00:43	2085	0.0	8.37	321.4	Bump Top Plug			
05/31/2018	21:00:44	1957	0.0	8.37	321.4				
05/31/2018	21:01:13	2031	0.0	8.37	321.4	End Disp, Vol = 321.41 bbl			
05/31/2018	21:05:44	2097	0.0	8.37	0.0				
05/31/2018	21:05:59	2101	0.0	8.37	0.0	Casing Pressure Test			
05/31/2018	21:07:06	4223	2.2	8.36	2.0	Open Sleeve			

Well			Field		Job Start	Customer		Job Number
Daisy 31E 232 - 232			Wattenberg		May/31/2018	PDC ENERGY, INC		2738689
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
05/31/2018	21:09:40	2	0.0	8.37	0.0	Floats Held 4.5 bbl Back		
05/31/2018	21:10:44	1	0.0	8.37	0.0			
05/31/2018	21:15:44	1	0.0	8.37	0.0			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 5.5	N2	Mud	Maximum Rate 8.2		Total Slurry 499.5	Mud 0.0	Spacer 165.8	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5465	Final 1	Average 768	Bump Plug to 2031	Breakdown	Type FreshWater	Volume 786.0 bbl		Density 8.34 lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 490.9 bbl		Displacement 321.4 bbl	Mix Water Temp 64 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative Tony Barrientos			Schlumberger Supervisor Adam Aasen			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				