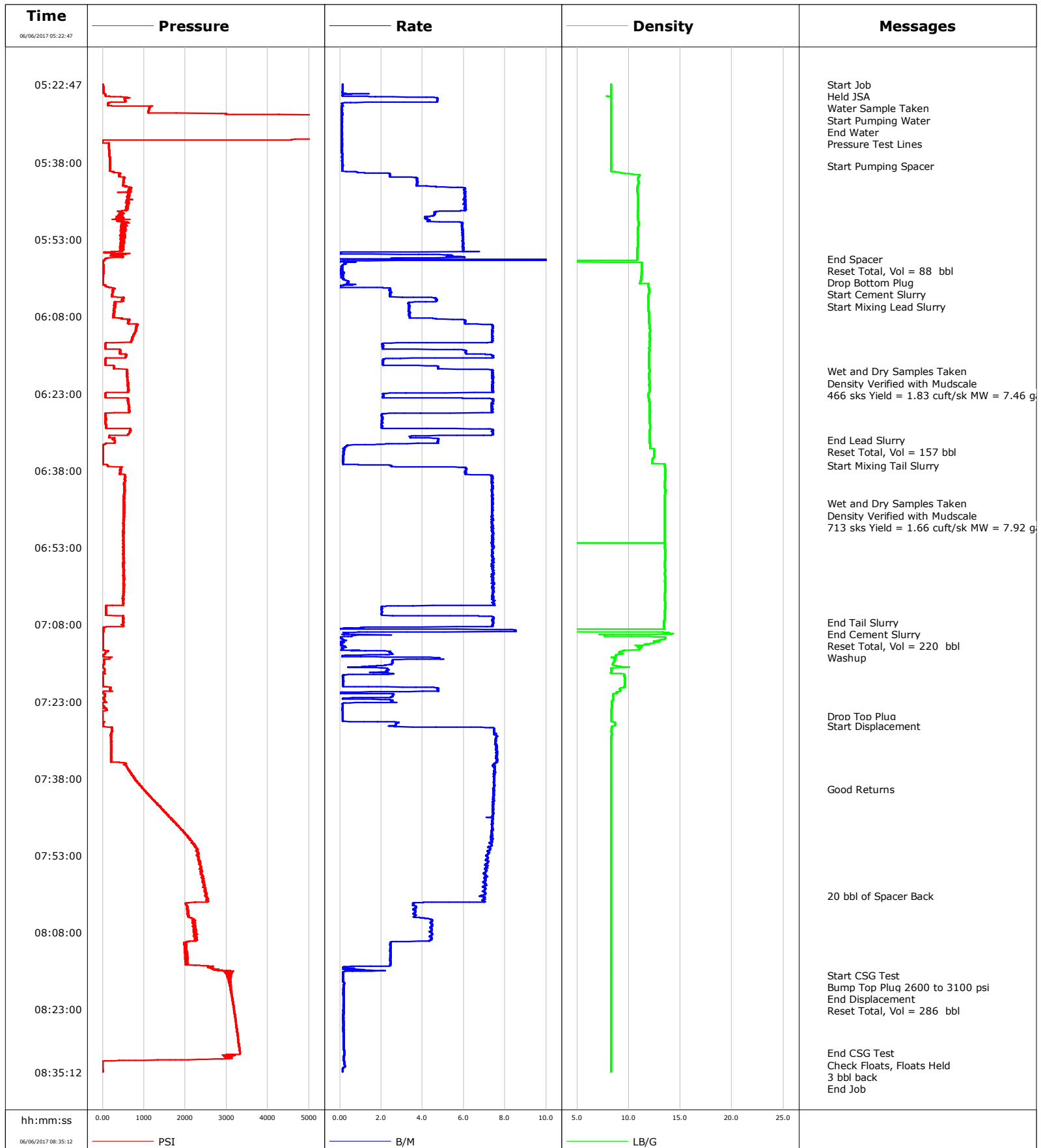


Well Hilgers 32N-22HZ
Field Wattenberg
Engineer Ryan Call
Country United States

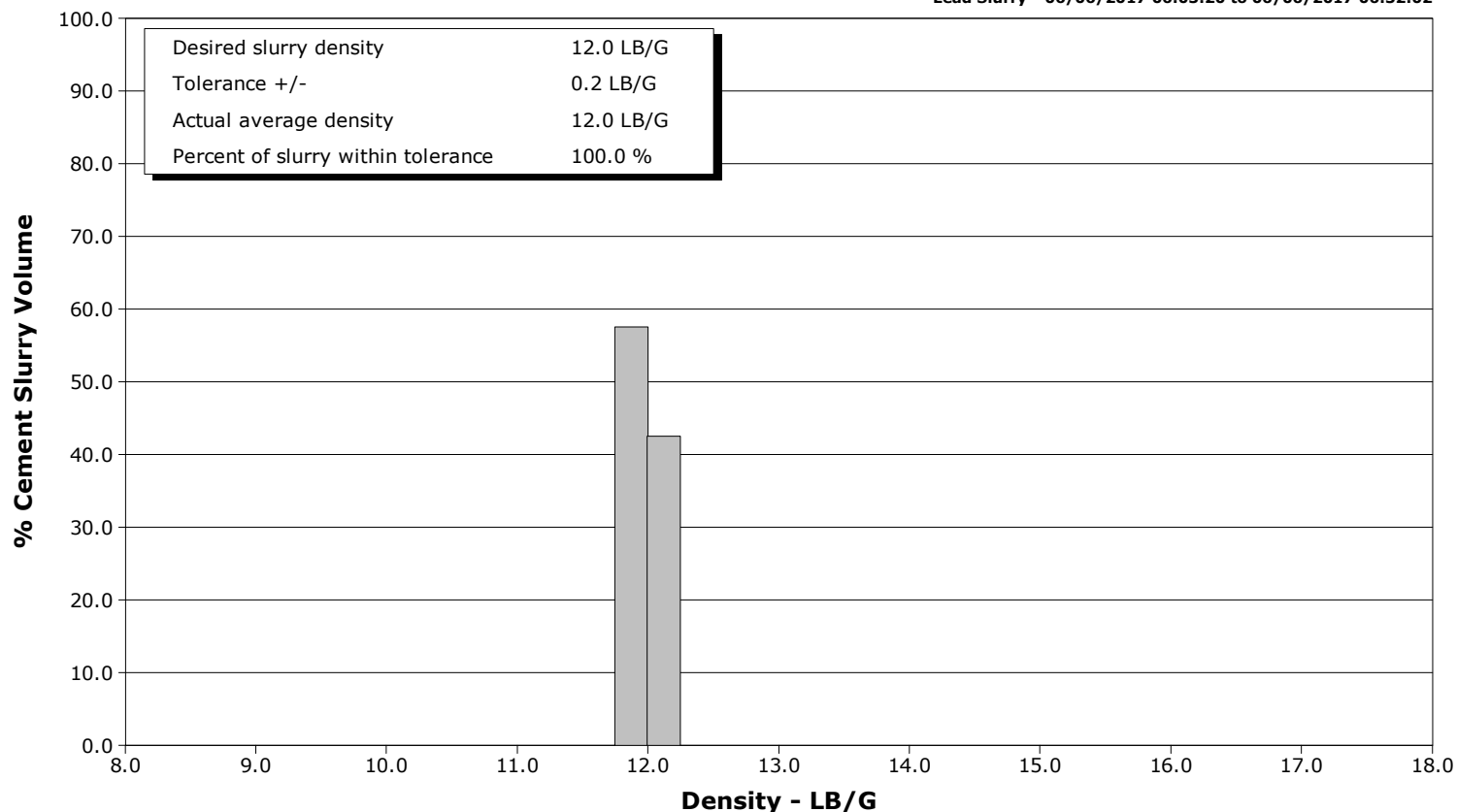
Client Anadarko
SIR No. D8WD-00244
Job Type 5.5" Production
Job Date 06-06-2017



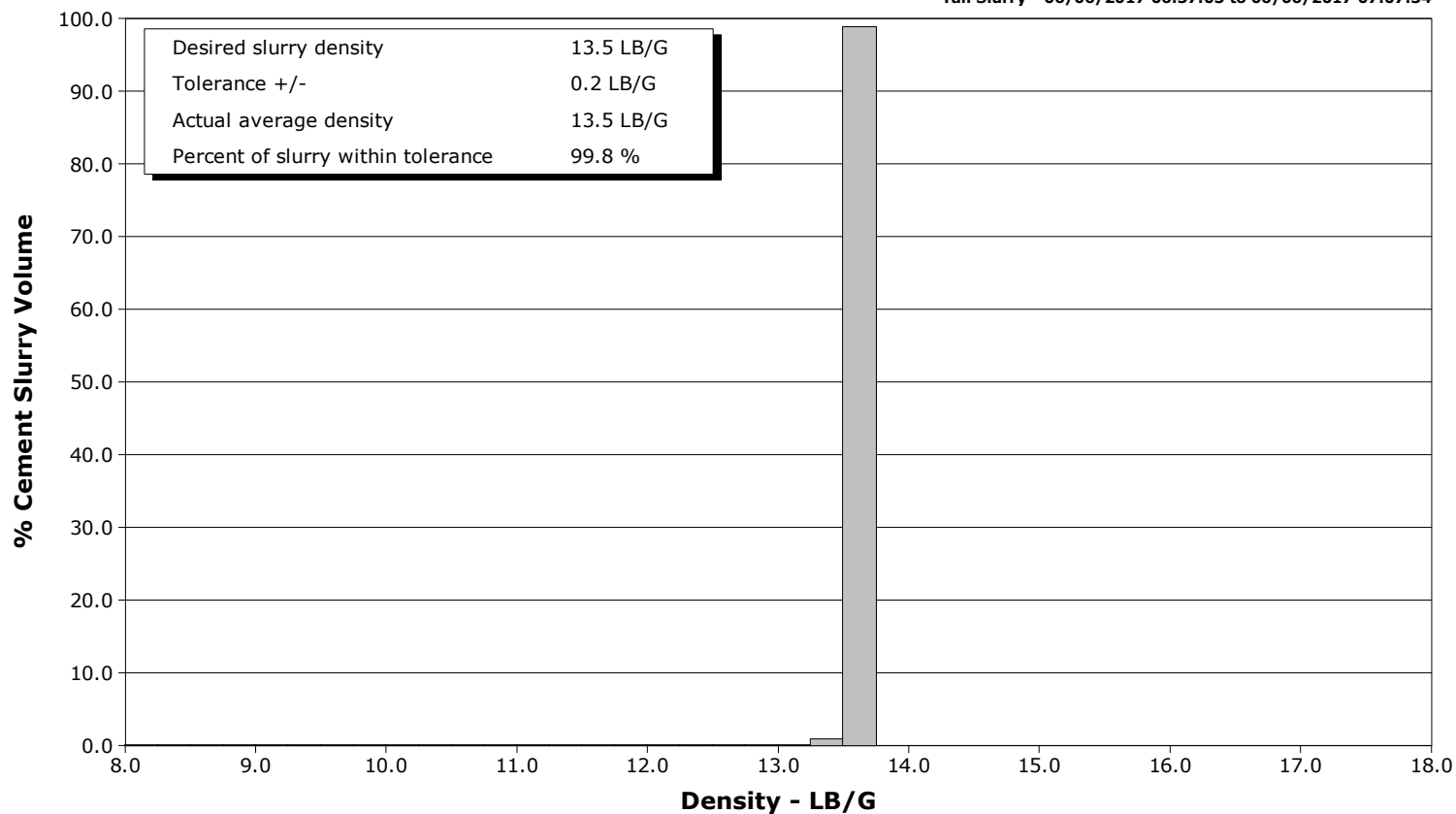
Well Hilgers 32N-22HZ
Field Wattenberg
Engineer Ryan Call
Country United States

Client Anadarko
SIR No. D8WD-00244
Job Type 5.5" Production
Job Date 06-06-2017

Lead Slurry - 06/06/2017 06:03:20 to 06/06/2017 06:32:02



Tail Slurry - 06/06/2017 06:37:03 to 06/06/2017 07:07:34



Cementing Service Report

				Customer Anadarko			Job Number D8WD-00244				
Well Hilgers 32N-22HZ			Location (legal) X24			Schlumberger Location CWY			Job Start Jun/06/2017		
Field Wattenberg		Formation Name/Type		Deviation deg		Bit Size 7.9 in		Well MD 12410.0 ft		Well TVD 7195.0 ft	
County Juneau		State/Province CO		BHP psi		BHST 225 degF		BHCT 218 degF		Pore Press. Gradient lb/gal	
Well Master 0631683182		API/UWI 0512343260000									
Rig Name X24		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 Development		1874.0		9.6		36.0	
						12410.0		5.5		17.0	
										J-55	
										8 RD	
Drilling Fluid Type OBM		Max. Density 9.10 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 5.5" Production									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 5.5" Double Plug		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
						Treat Down		Displacement 286.0 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl	
										Openhole Vol. bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job	
Lift Pressure 2600 psi						Shoe Type Float				Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12410.0 ft				Tool Type	
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type				Tool Depth ft	
Cement Head Type Double						Stage Tool Depth ft				Tail Pipe Size in	
Job Scheduled For Jun/06/2017 02:00		Arrived on Location Jun/06/2017 02:00		Leave Location Jun/06/2017 10:00		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 12308.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
06/06/2017	05:22:47	10	0.1	8.30	0.0	Started Acquisition					
06/06/2017	05:22:52	11	0.1	8.30	0.0	Start Job					
06/06/2017	05:22:55	11	0.1	8.30	0.0	Held JSA					
06/06/2017	05:23:02	11	0.1	8.29	0.0	Start Pumping Water					
06/06/2017	05:24:47	63	0.2	8.29	0.4						
06/06/2017	05:25:03	65	0.1	8.29	0.4	End Water					
06/06/2017	05:26:12	550	4.7	8.29	4.9	Pressure Test Lines					
06/06/2017	05:26:47	127	0.1	8.29	5.5						
06/06/2017	05:28:47	5491	0.1	8.29	5.7						
06/06/2017	05:30:47	5148	0.1	8.29	5.9						
06/06/2017	05:32:47	5093	0.1	8.29	6.1						
06/06/2017	05:34:47	149	0.1	8.29	6.3						
06/06/2017	05:36:47	166	0.1	8.29	6.5						
06/06/2017	05:38:41	177	0.1	8.30	6.7	Start Pumping Spacer					
06/06/2017	05:38:47	177	0.1	8.30	6.7						
06/06/2017	05:40:47	399	2.4	10.96	8.7						
06/06/2017	05:42:47	571	4.7	10.84	16.1						
06/06/2017	05:44:47	629	6.1	10.90	28.1						
06/06/2017	05:46:47	562	6.1	10.91	40.2						
06/06/2017	05:48:47	505	4.2	10.88	50.3						
06/06/2017	05:50:47	496	5.9	10.88	60.8						

Well Hilgers 32N-22HZ			Field Wattenberg		Job Start Jun/06/2017	Customer Anadarko	Job Number D8WD-00244
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/06/2017	05:54:47	461	6.0	10.82	84.6		
06/06/2017	05:56:47	72	2.6	10.80	92.8		
06/06/2017	05:56:50	66	0.2	10.80	92.8	End Spacer	
06/06/2017	05:57:01	45	24.9	10.80	94.1	Reset Total, Vol = 88 bbl	
06/06/2017	05:57:06	35	8.7	0.72	95.8	Drop Bottom Plug	
06/06/2017	05:58:47	13	0.1	11.24	96.3		
06/06/2017	06:00:47	11	0.2	11.18	96.6		
06/06/2017	06:02:47	248	2.4	11.96	97.9		
06/06/2017	06:03:18	236	2.5	11.99	99.2	Start Cement Slurry	
06/06/2017	06:03:20	233	2.5	11.99	99.2	Start Mixing Lead Slurry	
06/06/2017	06:04:47	484	4.7	11.90	103.8		
06/06/2017	06:06:47	276	3.3	11.92	111.1		
06/06/2017	06:08:47	646	6.1	11.97	118.6		
06/06/2017	06:10:47	807	7.4	12.04	132.4		
06/06/2017	06:12:47	690	7.4	12.03	147.1		
06/06/2017	06:14:47	429	6.1	11.99	154.6		
06/06/2017	06:16:47	67	2.1	11.96	165.2		
06/06/2017	06:18:41	585	7.4	12.00	173.1	Wet and Dry Samples Taken	
06/06/2017	06:18:42	585	7.4	12.00	173.2	Density Verified with Mudscales	
06/06/2017	06:18:47	588	7.4	12.00	173.8		
06/06/2017	06:20:47	616	7.4	11.99	188.6		
06/06/2017	06:22:47	618	7.4	11.99	203.4		
06/06/2017	06:24:47	622	7.4	11.99	212.8		
06/06/2017	06:26:47	639	7.3	12.04	227.6		
06/06/2017	06:28:47	71	2.0	12.02	232.0		
06/06/2017	06:30:47	645	7.4	12.00	240.9		
06/06/2017	06:32:02	262	4.8	12.01	247.4	End Lead Slurry	
06/06/2017	06:32:47	71	3.3	12.04	250.9		
06/06/2017	06:33:04	3	0.7	12.04	251.5	Reset Total, Vol = 157 bbl	
06/06/2017	06:34:47	8	0.2	12.46	251.9		
06/06/2017	06:36:47	7	0.2	13.46	252.2		
06/06/2017	06:37:03	119	2.5	13.47	252.5	Start Mixing Tail Slurry	
06/06/2017	06:38:47	420	6.1	13.50	262.0		
06/06/2017	06:40:47	530	7.4	13.50	276.6		
06/06/2017	06:42:47	522	7.4	13.50	291.4		
06/06/2017	06:44:26	521	7.4	13.50	303.5	Wet and Dry Samples Taken	
06/06/2017	06:44:27	514	7.4	13.50	303.7	Density Verified with Mudscales	
06/06/2017	06:44:47	517	7.4	13.50	306.1		
06/06/2017	06:46:47	509	7.4	13.51	320.9		
06/06/2017	06:48:47	505	7.4	13.48	335.6		
06/06/2017	06:50:47	501	7.4	13.48	350.4		
06/06/2017	06:52:47	510	7.4	13.51	365.2		
06/06/2017	06:54:47	494	7.4	13.52	379.9		
06/06/2017	06:56:47	482	7.4	13.50	394.7		
06/06/2017	06:58:47	514	7.4	13.52	409.5		
06/06/2017	07:00:47	505	7.4	13.53	424.3		
06/06/2017	07:02:47	492	7.4	13.48	439.2		
06/06/2017	07:04:47	79	2.0	13.54	451.8		
06/06/2017	07:06:47	496	7.4	13.50	458.2		
06/06/2017	07:07:34	509	7.4	13.38	464.0	End Tail Slurry	
06/06/2017	07:07:37	498	7.4	13.38	464.4	End Cement Slurry	
06/06/2017	07:07:42	496	7.4	13.38	465.0	Reset Total, Vol = 220 bbl	
06/06/2017	07:07:44	490	7.4	13.38	465.2	Washup	
06/06/2017	07:08:47	34	0.3	13.39	471.2		

Well			Field		Job Start		Customer		Job Number	
Hilgers 32N-22HZ			Wattenberg		Jun/06/2017		Anadarko		D8WD-00244	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
06/06/2017	07:12:47	4	0.1	11.10	476.4					
06/06/2017	07:14:47	36	4.4	8.70	480.5					
06/06/2017	07:16:47	42	2.3	8.30	485.0					
06/06/2017	07:18:47	1	0.2	9.60	487.4					
06/06/2017	07:20:47	177	4.8	9.17	490.4					
06/06/2017	07:22:47	38	2.5	8.53	494.5					
06/06/2017	07:24:47	95	0.1	8.33	495.9					
06/06/2017	07:25:49	-9	0.1	8.32	496.0	Drop Top Plug				
06/06/2017	07:26:47	-8	0.1	8.31	496.2					
06/06/2017	07:27:51	14	2.5	8.42	498.6	Start Displacement				
06/06/2017	07:28:47	234	7.5	8.32	504.7					
06/06/2017	07:30:47	201	7.6	8.30	519.7					
06/06/2017	07:32:47	206	7.6	8.29	534.9					
06/06/2017	07:34:47	202	7.6	8.29	550.0					
06/06/2017	07:36:47	657	7.5	8.29	565.0					
06/06/2017	07:38:47	843	7.5	8.29	580.0					
06/06/2017	07:40:04	996	7.5	8.30	589.5	Good Returns				
06/06/2017	07:40:47	1069	7.4	8.29	594.9					
06/06/2017	07:42:47	1288	7.4	8.29	609.7					
06/06/2017	07:44:47	1538	7.4	8.29	624.6					
06/06/2017	07:46:47	1766	7.4	8.29	639.3					
06/06/2017	07:48:47	1991	7.3	8.29	654.1					
06/06/2017	07:50:47	2214	7.3	8.29	668.7					
06/06/2017	07:52:47	2324	7.2	8.29	683.2					
06/06/2017	07:54:47	2354	7.0	8.29	697.5					
06/06/2017	07:56:47	2389	7.0	8.29	711.6					
06/06/2017	07:58:47	2465	7.1	8.29	725.7					
06/06/2017	08:00:47	2496	6.9	8.29	739.7					
06/06/2017	08:00:53	2504	6.8	8.29	740.4	20 bbl of Spacer Back				
06/06/2017	08:02:47	2032	3.6	8.29	751.4					
06/06/2017	08:04:47	2069	3.6	8.29	758.7					
06/06/2017	08:06:47	2248	4.5	8.29	767.2					
06/06/2017	08:08:47	2228	4.4	8.29	776.0					
06/06/2017	08:10:47	2012	2.4	8.29	782.8					
06/06/2017	08:12:47	1997	2.4	8.29	787.7					
06/06/2017	08:14:47	2540	0.2	8.29	792.2					
06/06/2017	08:16:22	3010	0.1	8.29	792.9	Start CSG Test				
06/06/2017	08:16:41	3092	0.2	8.29	792.9	Bump Top Plug 2600 to 3100 psi				
06/06/2017	08:16:43	3042	0.2	8.29	792.9	End Displacement				
06/06/2017	08:16:46	3099	0.2	8.29	792.9	Reset Total, Vol = 286 bbl				
06/06/2017	08:16:47	3034	0.2	8.29	792.9					
06/06/2017	08:18:47	3086	0.2	8.29	793.3					
06/06/2017	08:20:47	3137	0.2	8.29	793.6					
06/06/2017	08:22:47	3172	0.2	8.29	794.0					
06/06/2017	08:24:47	3208	0.2	8.29	794.3					
06/06/2017	08:26:47	3242	0.2	8.29	794.7					
06/06/2017	08:28:47	3276	0.2	8.29	795.0					
06/06/2017	08:30:47	3309	0.2	8.29	795.4					
06/06/2017	08:31:31	3321	0.2	8.29	795.5	End CSG Test				
06/06/2017	08:32:41	2880	0.2	8.29	795.8	Check Floats, Floats Held				
06/06/2017	08:32:47	2340	0.2	8.29	795.8					
06/06/2017	08:33:26	-9	0.2	8.29	795.9	End Job				

Well Hilgers 32N-22HZ	Field Wattenberg	Job Start Jun/06/2017	Customer Anadarko	Job Number D8WD-00244
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.2	N2	Mud	Maximum Rate 25.0	Total Slurry 356.0	Mud 0.0	Spacer 88.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 5526	Final -0	Average 1075	Bump Plug to 3100	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 356.0 bbl	Displacement 286.0 bbl	Mix Water Temp 68 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative			Schlumberger Supervisor Ryan Call			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	