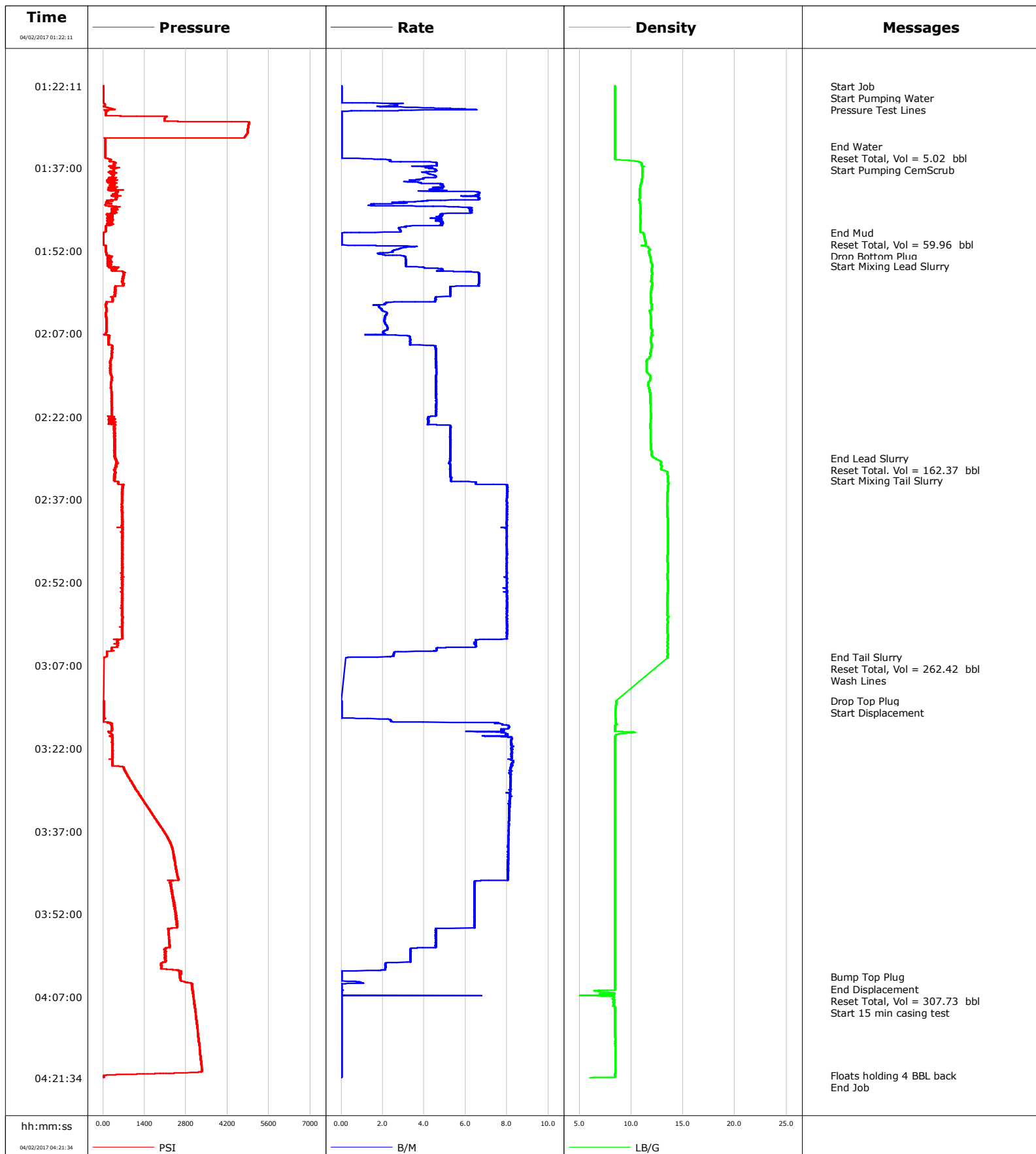


Well Whiston 16N-33HZ
Field Wattenberg
Engineer Anthony Fowler
Country United States

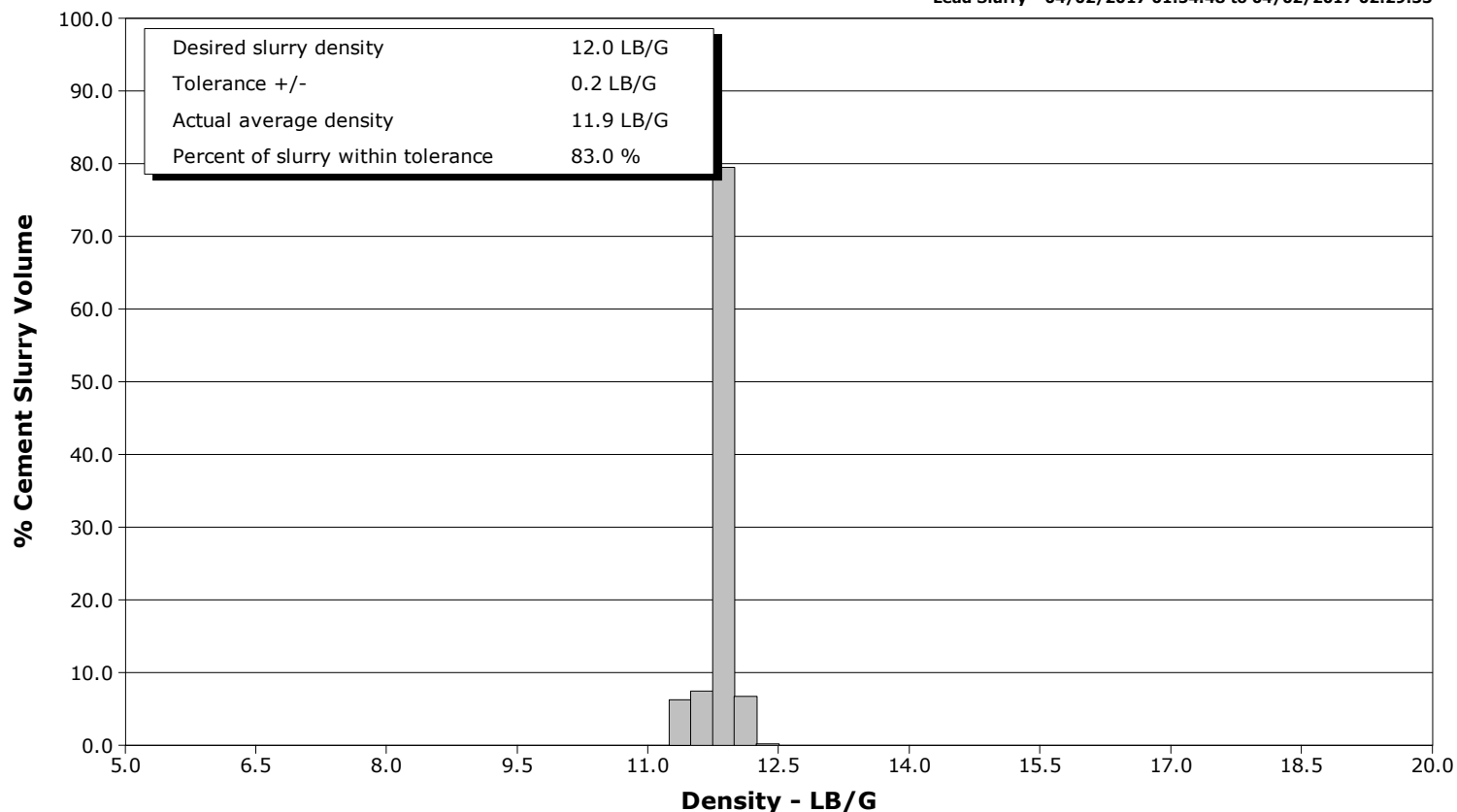
Client Anadarko
SIR No. DMBW-00831
Job Type 5 1/2 Mono
Job Date 04-01-2017



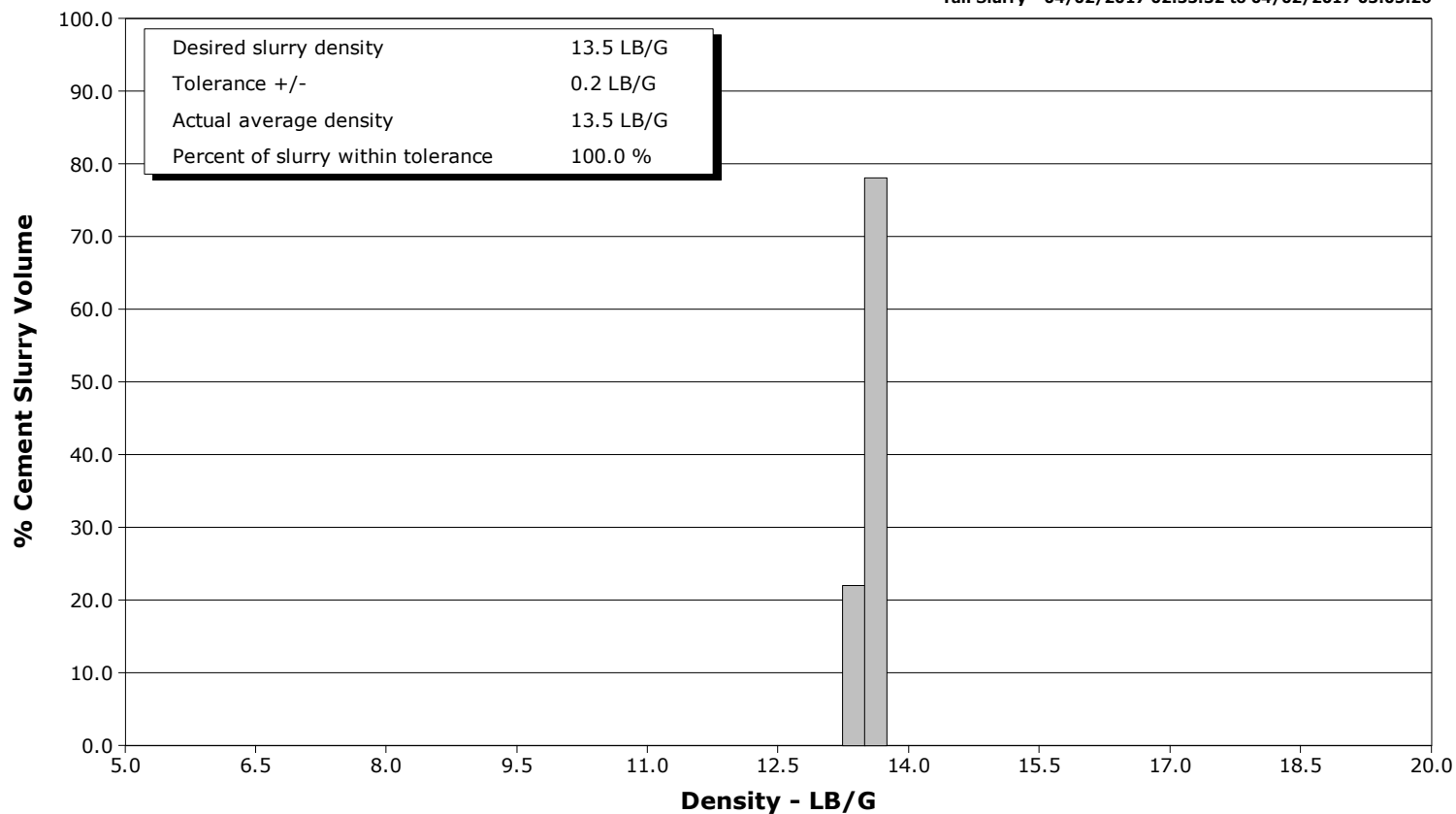
Well Whiston 1N-33HZ
Field Wattenberg
Engineer Anthony Fowler
Country United States

Client Anadarko
SIR No. DMBW-00831
Job Type 5 1/2 Mono
Job Date 04-01-2017

Lead Slurry - 04/02/2017 01:54:48 to 04/02/2017 02:29:33



Tail Slurry - 04/02/2017 02:33:32 to 04/02/2017 03:05:26



Cementing Service Report

				Customer Anadarko			Job Number DMBW-00831								
Well Whiston 1N-33HZ			Location (legal)			Schlumberger Location			Job Start Apr/01/2017						
Field Wattenberg		Formation Name/Type			Deviation deg		Bit Size in		Well MD 13333.0 ft		Well TVD ft				
County Weld		State/Province Colorado			BHP psi		BHST degF		BHCT degF		Pore Press. Gradient lb/gal				
Well Master		API/UWI													
Rig Name P461		Drilled For Gas		Service Via Land		Casing/ Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade	Thread		
Offshore Zone		Well Class New		Well Type Development											
Drilling Fluid Type		Max. Density 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 1/2 Mono													
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Double Cement head		Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft	
Service Instructions						ft		ft							
						ft		ft						Diameter in	
						ft		ft							
		Treat Down Casing		Displacement 307.0 bbl		Packer Type		Packer Depth ft							
		Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl		Openhole Vol. bbl							
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools				Squeeze Job					
Lift Pressure psi						Shoe Type				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 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 Apr/01/2017		Arrived on Location Apr/01/2017		Leave Location Apr/01/2017		Collar Type				Tail Pipe Depth ft					
						Collar Depth ft				Sqz. Total Vol. bbl					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
04/02/2017	01:22:11	6	0.0	8.42	0.0	Started Acquisition									
04/02/2017	01:22:15	6	0.0	8.42	0.0	Start Pumping Water									
04/02/2017	01:22:16	7	0.0	8.42	0.0	Pressure Test Lines									
04/02/2017	01:24:51	13	0.0	8.41	0.0										
04/02/2017	01:27:31	98	0.0	8.41	0.1										
04/02/2017	01:30:11	4885	0.0	8.41	0.1										
04/02/2017	01:32:51	78	0.0	8.41	0.1										
04/02/2017	01:33:04	78	0.0	8.41	0.1	End Water									
04/02/2017	01:33:05	78	0.0	8.41	0.1	Reset Total, Vol = 5.02 bbl									
04/02/2017	01:33:13	78	0.0	8.41	0.1	Start Pumping CemScrub									
04/02/2017	01:35:31	263	2.1	8.47	0.4										
04/02/2017	01:38:11	275	4.3	11.06	11.2										
04/02/2017	01:40:51	172	4.4	10.83	22.7										
04/02/2017	01:43:31	103	1.9	10.84	37.2										
04/02/2017	01:46:11	162	4.5	10.86	50.3										
04/02/2017	01:48:42	17	0.9	11.04	60.1	End Mud									
04/02/2017	01:48:43	18	0.9	11.04	60.1	Reset Total, Vol = 59.96 bbl									
04/02/2017	01:48:49	17	0.0	11.17	60.1	Drop Bottom Plug									
04/02/2017	01:48:51	15	0.0	11.18	60.1										
04/02/2017	01:51:31	96	2.9	11.66	1.4										
04/02/2017	01:54:11	272	3.1	11.93	8.6										

Well			Field	Job Start		Customer	Job Number
Whiston 1N-33HZ			Wattenberg	Apr/01/2017		Anadarko	DMBW-00831
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
04/02/2017	01:56:51	677	6.6	11.95	21.9		
04/02/2017	01:59:31	428	5.3	11.91	38.1		
04/02/2017	02:02:11	100	1.8	11.96	48.5		
04/02/2017	02:04:51	105	2.1	11.93	54.0		
04/02/2017	02:07:31	183	3.3	11.94	59.8		
04/02/2017	02:10:11	285	4.6	11.91	70.0		
04/02/2017	02:12:51	247	4.6	11.49	82.2		
04/02/2017	02:15:31	276	4.6	11.80	94.4		
04/02/2017	02:18:11	295	4.6	11.83	106.6		
04/02/2017	02:20:51	296	4.6	11.88	118.8		
04/02/2017	02:23:31	423	4.9	11.83	130.4		
04/02/2017	02:26:11	397	5.3	11.86	144.4		
04/02/2017	02:28:51	402	5.2	11.97	158.4		
04/02/2017	02:29:33	407	5.2	12.30	162.1	End Lead Slurry	
04/02/2017	02:29:35	393	5.2	12.35	162.3	Reset Total, Vol = 162.37 bbl	
04/02/2017	02:31:31	441	5.2	12.86	8.2		
04/02/2017	02:33:32	361	5.3	13.55	18.8	Start Mixing Tail Slurry	
04/02/2017	02:34:11	502	6.5	13.57	22.7		
04/02/2017	02:36:51	657	8.0	13.50	43.9		
04/02/2017	02:39:31	647	8.0	13.50	65.2		
04/02/2017	02:42:11	659	7.9	13.55	86.5		
04/02/2017	02:44:51	670	8.0	13.54	107.8		
04/02/2017	02:47:31	642	8.0	13.51	129.1		
04/02/2017	02:50:11	653	8.0	13.52	150.3		
04/02/2017	02:52:51	654	8.0	13.53	171.6		
04/02/2017	02:55:31	631	8.0	13.49	192.9		
04/02/2017	02:58:11	668	8.0	13.60	214.2		
04/02/2017	03:00:51	646	8.0	13.50	235.5		
04/02/2017	03:03:31	475	6.5	13.50	255.0		
04/02/2017	03:05:26	118	2.4	13.49	262.4	End Tail Slurry	
04/02/2017	03:05:31	42	1.1	13.42	262.6	Reset Total, Vol = 262.42 bbl	
04/02/2017	03:05:32	42	0.7	13.48	262.6	Wash Lines	
04/02/2017	03:13:24	31	0.0	8.57	0.1	Drop Top Plug	
04/02/2017	03:13:25	31	0.0	8.57	0.1	Start Displacement	
04/02/2017	03:14:11	29	0.0	8.54	0.1		
04/02/2017	03:16:51	10	2.4	8.52	0.6		
04/02/2017	03:19:31	304	8.1	8.59	18.9		
04/02/2017	03:22:11	313	8.3	8.42	40.6		
04/02/2017	03:24:51	316	8.2	8.42	62.5		
04/02/2017	03:27:31	900	8.2	8.42	84.3		
04/02/2017	03:30:11	1196	8.1	8.42	106.0		
04/02/2017	03:32:51	1525	8.1	8.42	127.7		
04/02/2017	03:35:31	1860	8.1	8.42	149.3		
04/02/2017	03:38:11	2187	8.1	8.41	170.8		
04/02/2017	03:40:51	2368	8.0	8.41	192.3		
04/02/2017	03:43:31	2452	8.0	8.41	213.7		
04/02/2017	03:46:11	2277	6.4	8.41	234.7		
04/02/2017	03:48:51	2344	6.4	8.41	251.9		
04/02/2017	03:51:31	2424	6.4	8.41	269.0		
04/02/2017	03:54:11	2505	6.4	8.41	286.1		
04/02/2017	03:56:51	2231	4.6	8.41	299.0		
04/02/2017	03:59:31	2084	3.3	8.41	309.4		
04/02/2017	04:02:11	2555	1.8	8.41	316.5		
04/02/2017	04:03:21	2587	0.0	8.42	316.6	Bump Top Plug	

Well			Field		Job Start	Customer		Job Number
Whiston 1N-33HZ			Wattenberg		Apr/01/2017	Anadarko		DMBW-00831
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
04/02/2017	04:03:23	2625	0.0	8.42	316.6	Reset Total, Vol = 307.73 bbl		
04/02/2017	04:04:35	3038	0.0	8.42	317.0	Start 15 min casing test		
04/02/2017	04:04:51	3020	0.0	8.42	317.0			
04/02/2017	04:07:31	3065	0.0	8.33	317.1			
04/02/2017	04:10:11	3125	0.0	8.43	0.0			
04/02/2017	04:12:51	3184	0.0	8.44	0.0			
04/02/2017	04:15:31	3241	0.0	8.45	0.0			
04/02/2017	04:18:11	3293	0.0	8.45	0.0			
04/02/2017	04:20:51	1755	0.0	8.45	0.0			
04/02/2017	04:21:12	29	0.0	8.44	0.0	Floats holding 4 BBL back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.8	N2	Mud 4.5	Maximum Rate 8.3		Total Slurry 424.0	Mud 0.0	Spacer 60.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4936	Final 27	Average 1053	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 394.0 bbl		Displacement 307.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative			Schlumberger Supervisor Anthony Fowler			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	