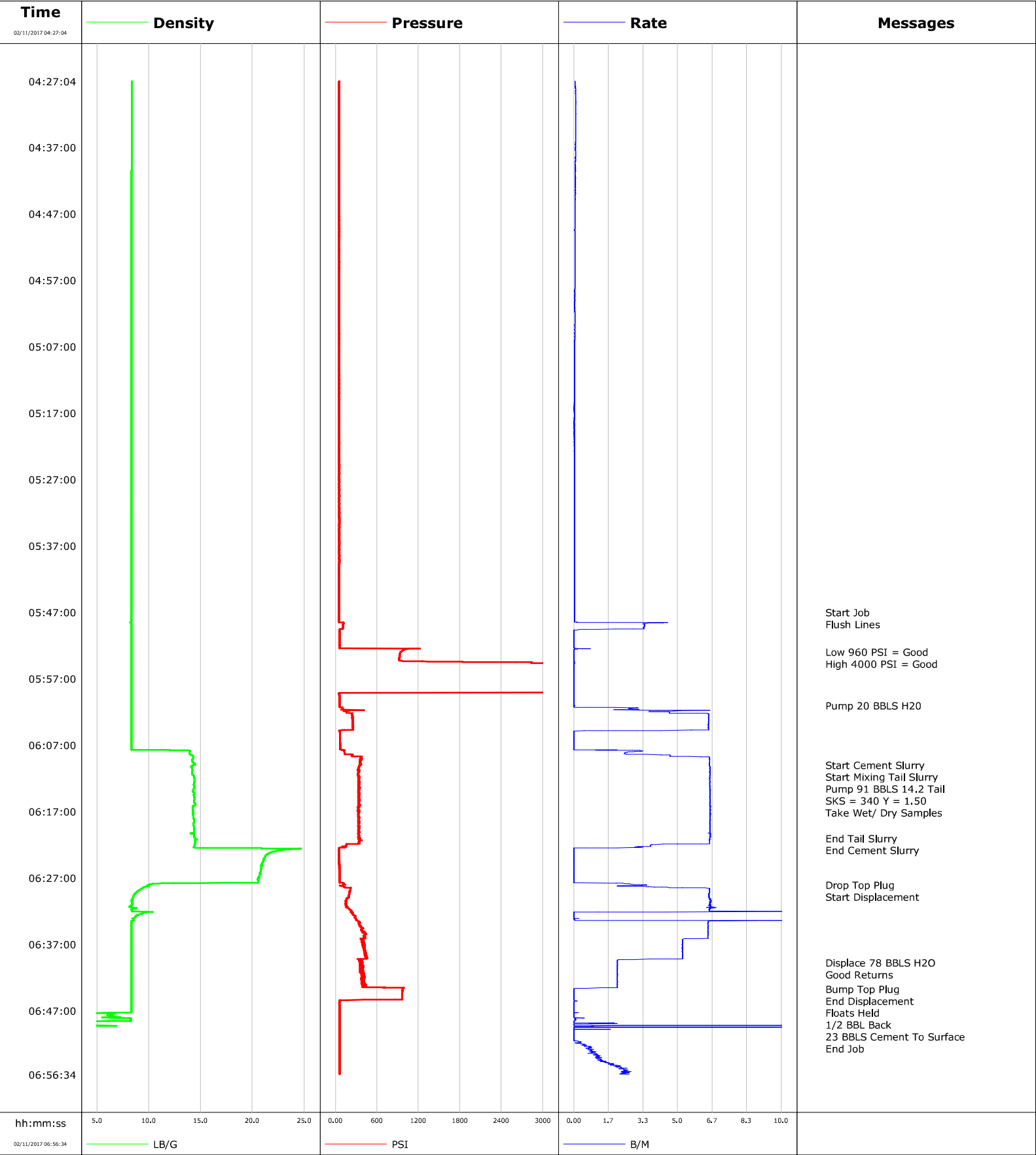


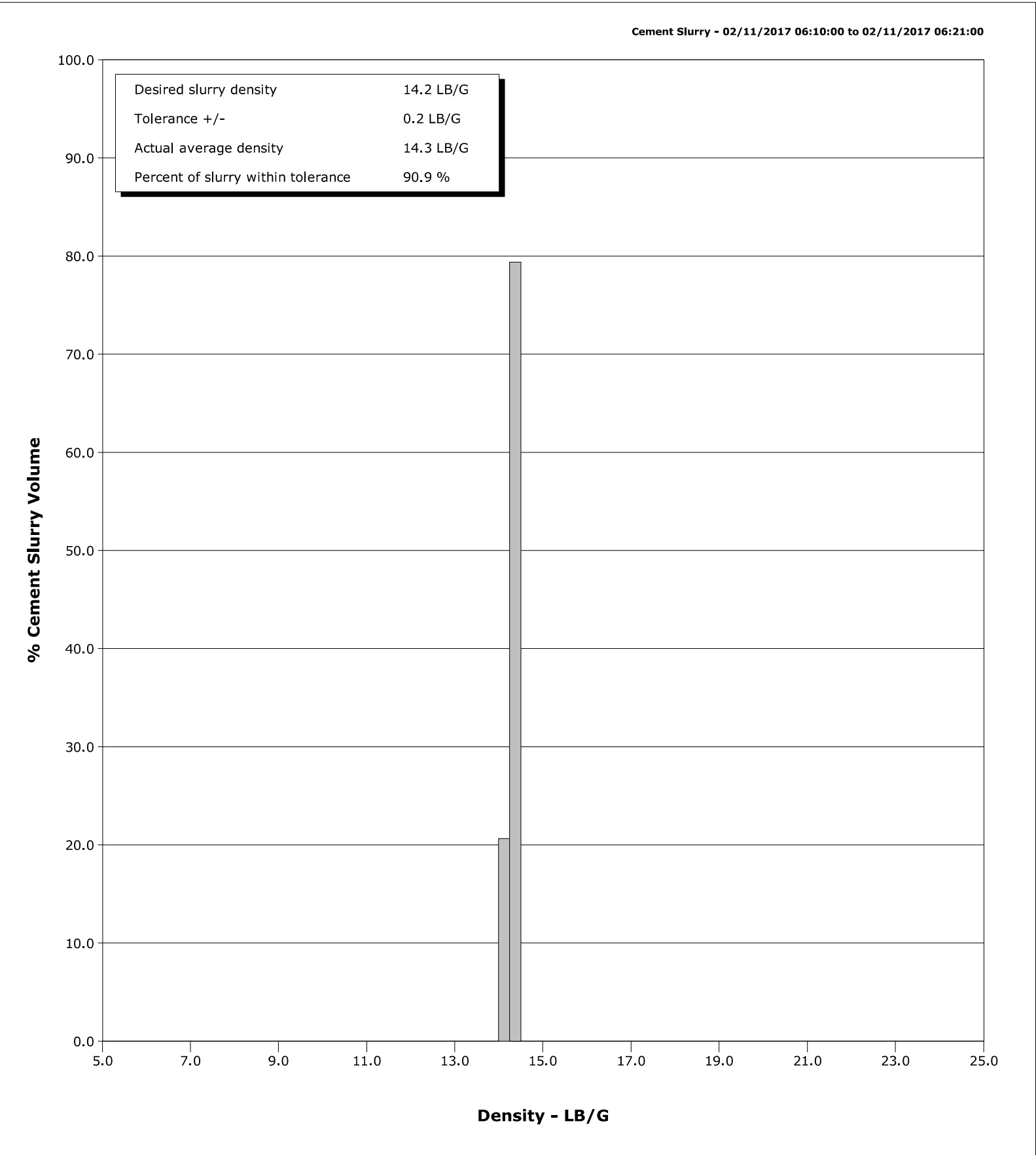
Well	EWS # 4	Client	EWS
Field	DJ Basin	SIR No.	2448988
Engineer	Conley Jensen/ Luis Evans	Job Type	9 5/8" Surface
Country	United States	Job Date	02-11-2017





Cementing Qa/Qc Density Report

Well	EWS # 4	Client	EWS
Field	DJ Basin	SIR No.	2448988
Engineer	Conley Jensen/ Luis Evans	Job Type	9 5/8" Surface
Country	United States	Job Date	02-11-2017



				Customer EWS		Job Number 2448988	
Well EWS # 4 EWS #4			Location (legal)		Schlumberger Location CWY		Job Start Feb/11/2017
Field DJ Basin		Formation Name/Type Shale		Deviation deg	Bit Size 12.5 in	Well MD 1050.0 ft	Well TVD 1050.0 ft
County Weld		State/Province Colorado		BHP psi	BHST 110 degF	BHCT 85 degF	Pore Press. Gradient lb/gal
Well Master 0631706658		API/UWI 05123441670000					
Rig Name Ensign 121		Drilled For Oil	Service Via Land		Casing/Liner		
					Depth, ft	Size, in	Weight, lb/ft
					1008.0	9.6	36.0
					0.0	0.0	0.0
Offshore Zone		Well Class New	Well Type Development		Grade J55		
					Thread 8RD		
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe		
					T/D	Depth, ft	Size, in
Service Line Cementing		Job Type 9 5/8" Surface		Weight, lb/ft			
				Grade			
				Thread			
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi	WH Connection Single Cement head		Perforations/Open Hole		
					Top, ft	Bottom, ft	shot/ft
							No. of Shots
							Total Interval ft
							Diameter in
					Treat Down Casing	Displacement 75.0 bbl	Packer Type
							Packer Depth ft
					Tubing Vol. bbl	Casing Vol. 78.0 bbl	Annular Vol. 56.0 bbl
							Openhole Vol. 135.0 bbl
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 499 psi				Shoe Type Float		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1008.0 ft		Tool Type	
No. Centralizers		Top Plugs 1	Bottom Plugs		Stage Tool Type		Tool Depth ft
Cement Head Type Single				Stage Tool Depth ft		Tail Pipe Size in	
Job Scheduled For Feb/11/2017 00:00		Arrived on Location Feb/11/2017 00:00	Leave Location Feb/11/2017 08:00		Collar Type Float		Tail Pipe Depth ft
					Collar Depth 964.0 ft		Sqz. Total Vol. bbl
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/11/2017	04:52:04	0	0.1	8.34	10.2	Started Acquisition	
02/11/2017	04:53:34	0	0.1	8.34	10.3		
02/11/2017	04:55:04	0	0.1	8.34	10.4		
02/11/2017	04:56:34	0	0.1	8.34	10.5		
02/11/2017	04:58:04	0	0.1	8.34	10.6		
02/11/2017	04:59:34	0	0.1	8.34	10.6		
02/11/2017	05:01:04	0	0.0	8.34	10.7		
02/11/2017	05:02:34	0	0.1	8.34	10.8		
02/11/2017	05:04:04	0	0.1	8.34	10.9		
02/11/2017	05:05:34	0	0.1	8.34	10.9		
02/11/2017	05:07:04	0	0.0	8.34	11.0		
02/11/2017	05:08:34	0	0.0	8.34	11.1		
02/11/2017	05:10:04	0	0.0	8.34	11.1		
02/11/2017	05:11:34	0	0.0	8.34	11.2		
02/11/2017	05:13:04	0	0.0	8.34	11.2		
02/11/2017	05:14:34	0	0.0	8.34	11.3		
02/11/2017	05:16:04	0	0.0	8.34	11.3		
02/11/2017	05:17:34	0	0.0	8.34	11.3		
02/11/2017	05:19:04	0	0.0	8.34	11.4		
02/11/2017	05:20:34	0	0.0	8.34	11.4		
02/11/2017	05:22:04	0	0.0	8.34	11.5		

Well			Field		Job Start		Customer		Job Number	
EWS # 4 EWS #4			DJ Basin		Feb/11/2017		EWS		2448988	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/11/2017	05:25:04	0	0.0	8.34	11.6					
02/11/2017	05:26:34	0	0.0	8.34	11.6					
02/11/2017	05:28:04	0	0.0	8.34	11.7					
02/11/2017	05:29:34	0	0.0	8.34	11.7					
02/11/2017	05:31:04	0	0.0	8.34	11.8					
02/11/2017	05:32:34	0	0.0	8.34	11.8					
02/11/2017	05:34:04	0	0.0	8.34	11.9					
02/11/2017	05:35:34	0	0.0	8.34	11.9					
02/11/2017	05:37:04	0	0.0	8.34	12.0					
02/11/2017	05:38:34	0	0.0	8.34	12.0					
02/11/2017	05:40:04	0	0.0	8.34	12.1					
02/11/2017	05:41:34	0	0.0	8.34	12.1					
02/11/2017	05:43:04	0	0.0	8.34	0.1					
02/11/2017	05:44:34	0	0.0	8.34	0.1					
02/11/2017	05:46:04	0	0.0	8.34	0.2					
02/11/2017	05:47:00	0	0.0	8.34	0.2	Start Job				
02/11/2017	05:47:34	0	0.0	8.34	0.2					
02/11/2017	05:48:00	0	0.0	8.34	0.2	Flush Lines				
02/11/2017	05:49:04	0	3.4	8.34	2.0					
02/11/2017	05:50:34	0	0.0	8.34	0.1					
02/11/2017	05:52:04	0	0.0	8.34	0.1					
02/11/2017	05:53:00	0	0.0	8.34	0.2	Low 960 PSI = Good				
02/11/2017	05:53:34	929	0.0	8.34	0.2					
02/11/2017	05:54:00	925	0.0	8.34	0.2	High 4000 PSI = Good				
02/11/2017	05:55:04	3954	0.0	8.34	0.2					
02/11/2017	05:56:34	3924	0.0	8.34	0.2					
02/11/2017	05:58:04	3822	0.0	8.34	0.2					
02/11/2017	05:59:34	59	0.0	8.34	0.2					
02/11/2017	06:01:00	59	0.0	8.34	0.2	Pump 20 BBLS H2O				
02/11/2017	06:01:04	59	0.0	8.34	0.2					
02/11/2017	06:02:34	246	6.5	8.34	5.7					
02/11/2017	06:04:04	250	6.5	8.33	15.5					
02/11/2017	06:05:34	66	0.0	8.33	20.4					
02/11/2017	06:07:04	72	0.0	8.33	0.0					
02/11/2017	06:08:34	235	4.6	14.18	2.3					
02/11/2017	06:10:00	347	6.5	14.33	11.4	Start Cement Slurry				
02/11/2017	06:10:04	358	6.5	14.24	11.8					
02/11/2017	06:11:14	330	6.6	14.18	19.4	Pump 91 BBLS 14.2 Tail				
02/11/2017	06:11:34	341	6.5	14.29	21.6					
02/11/2017	06:11:37	338	6.5	14.31	22.0	SKS = 340 Y = 1.50				
02/11/2017	06:11:53	335	6.5	14.36	23.7	Take Wet/ Dry Samples				
02/11/2017	06:13:04	327	6.5	14.34	31.4					
02/11/2017	06:14:34	342	6.5	14.33	41.3					
02/11/2017	06:16:04	339	6.6	14.47	51.1					
02/11/2017	06:17:34	323	6.6	14.28	61.0					
02/11/2017	06:19:04	338	6.6	14.32	70.8					
02/11/2017	06:20:34	346	6.6	14.35	80.7					
02/11/2017	06:21:00	339	6.5	14.44	83.5	End Tail Slurry				
02/11/2017	06:22:04	160	3.7	14.40	90.1					
02/11/2017	06:23:34	57	0.0	21.32	0.0					
02/11/2017	06:25:04	58	0.0	20.86	0.0					
02/11/2017	06:26:34	58	0.0	20.70	0.0					
02/11/2017	06:28:00	119	2.9	10.11	0.5	Drop Top Plug				
02/11/2017	06:28:04	127	3.5	9.99	0.7					

Well			Field		Job Start		Customer		Job Number	
EWS # 4 EWS #4			DJ Basin		Feb/11/2017		EWS		2448988	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
02/11/2017	06:31:04	153	6.5	8.41	19.0					
02/11/2017	06:32:34	251	0.0	8.99	28.7					
02/11/2017	06:34:04	342	6.5	8.33	38.2					
02/11/2017	06:35:34	420	6.5	8.33	47.9					
02/11/2017	06:37:04	389	5.2	8.33	56.5					
02/11/2017	06:38:34	423	5.3	8.33	64.4					
02/11/2017	06:39:43	371	2.1	8.33	69.0	Displace 78 BBLs H2O				
02/11/2017	06:40:04	374	2.1	8.33	69.7					
02/11/2017	06:41:34	421	2.1	8.33	72.9					
02/11/2017	06:43:04	396	2.1	8.33	76.0					
02/11/2017	06:43:44	974	0.0	8.33	77.2	Bump Top Plug				
02/11/2017	06:43:45	972	0.0	8.34	77.2	End Displacement				
02/11/2017	06:44:34	967	0.0	8.34	77.2					
02/11/2017	06:45:41	60	0.0	8.34	77.2	Floats Held				
02/11/2017	06:45:42	59	0.0	8.34	77.2	1/2 BBL Back				
02/11/2017	06:46:01	61	0.0	8.34	77.2	23 BBLs Cement To Surface				
02/11/2017	06:46:02	61	0.0	8.34	77.2	End Job				
02/11/2017	06:46:04	60	0.0	8.34	77.2					
02/11/2017	06:47:34	62	0.0	6.07	77.2					
02/11/2017	06:49:04	61	0.0	0.07	77.4					
02/11/2017	06:50:34	62	0.0	0.03	78.8					
02/11/2017	06:52:04	58	0.4	0.03	78.9					
02/11/2017	06:53:34	58	1.1	0.02	80.1					
02/11/2017	06:55:04	59	1.8	0.02	82.1					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 1.6	N2	Mud	Maximum Rate 19.2	Total Slurry 91.0	Mud 0.0	Spacer 20.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3981	Final 58	Average 254	Bump Plug to 968	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %		Designed Slurry Volume 91.0 bbl		Displacement 78.0 bbl		Mix Water Temp 60 degF				
						Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 23.0 bbl		
						Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Jeremiah Demuth			Schlumberger Supervisor Conley Jensen/ Luis Evans			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>		
						-		-		