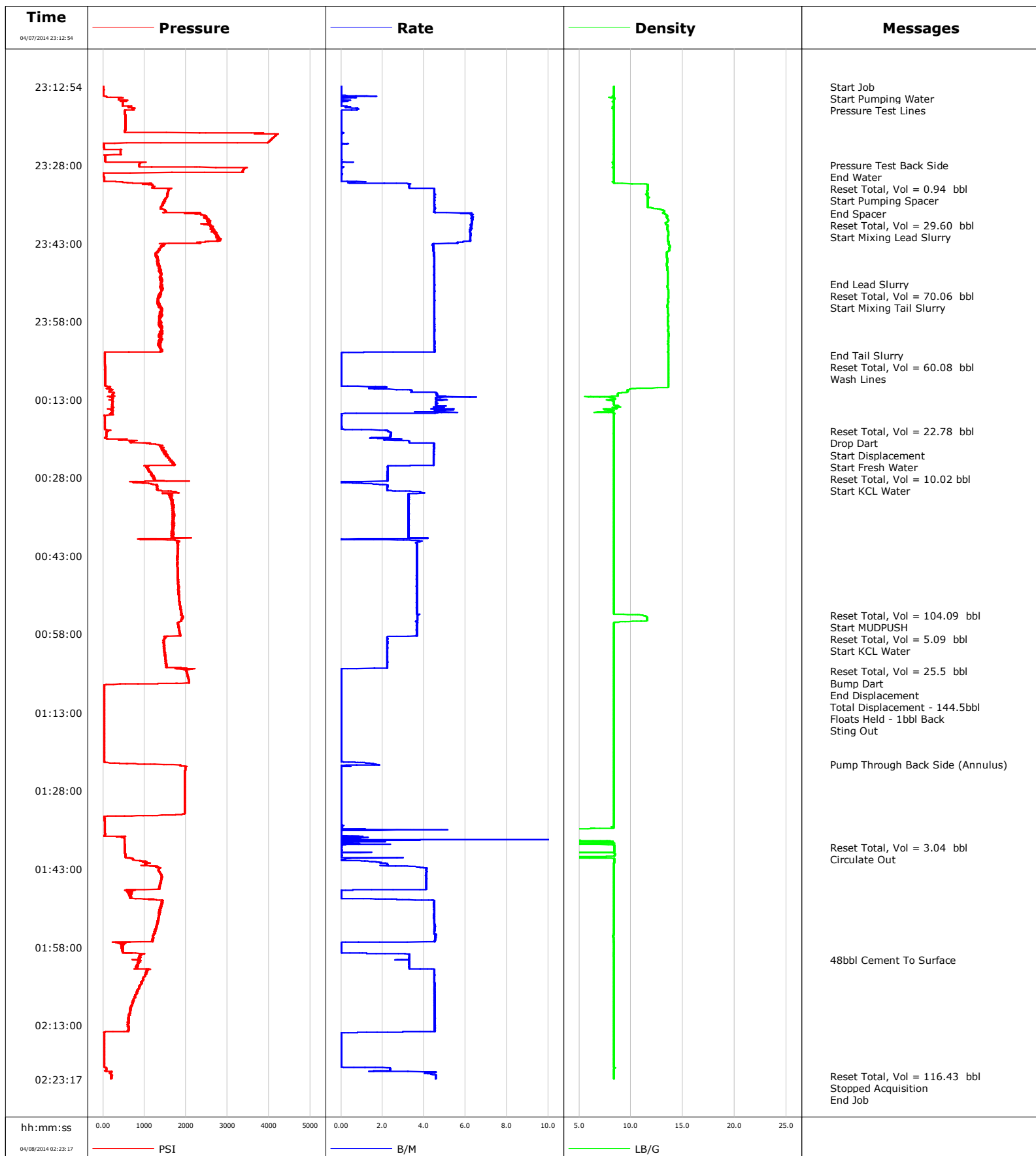


Well Razor Federal 26J-3512B
Field Old 10
Engineer Michael Simon/T Morrow
Country United States

Client Whiting
SIR No. CMI1-00834
Job Type 4 1/2 Liner
Job Date 04-07-2014

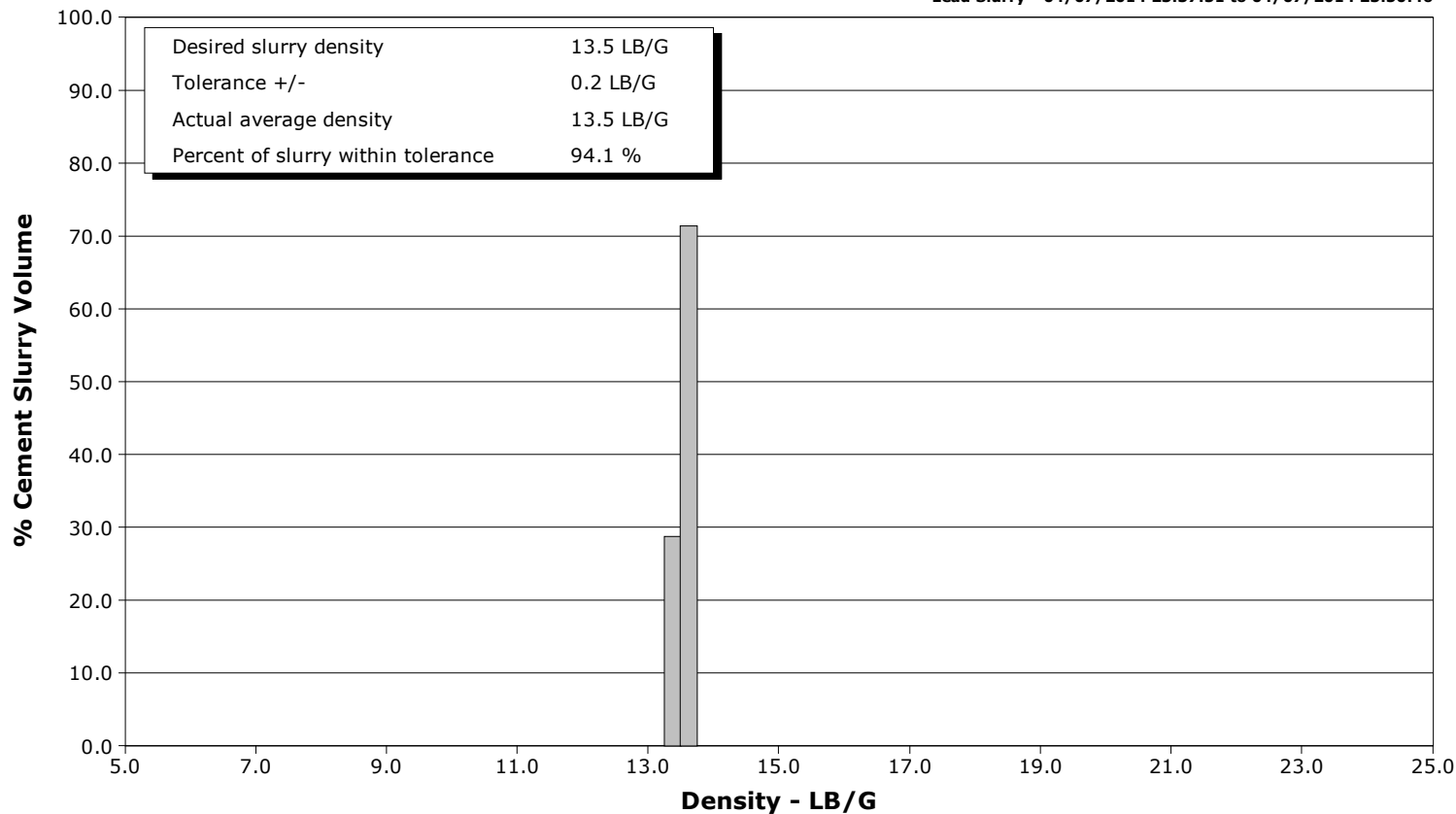


Schlumberger Cementing Qa/Qc Density Report

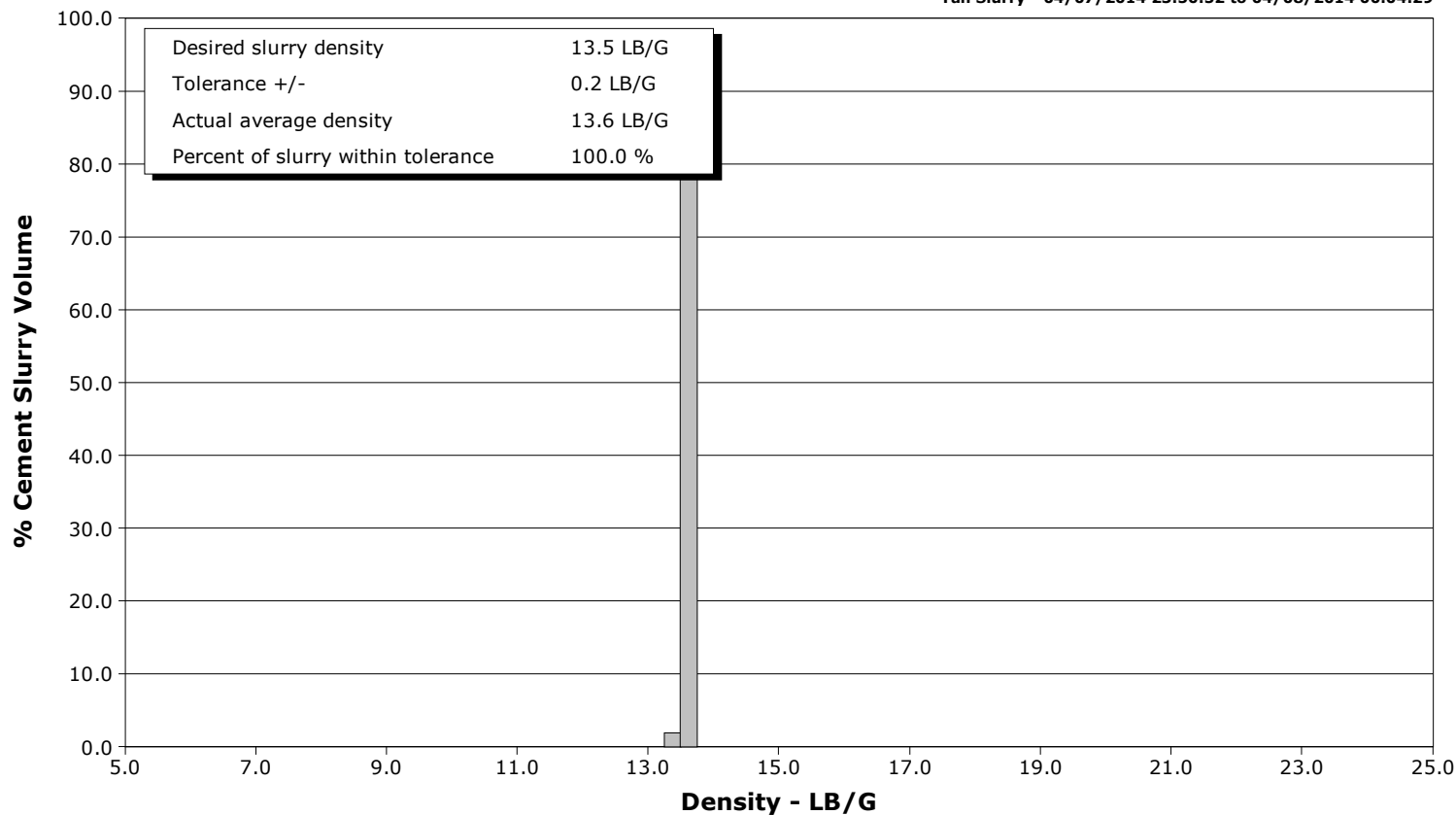
Well Razor Federal 26J-3512B
Field Old 10
Engineer Michael Simon/T Morrow
Country United States

Client Whiting
SIR No. CMI1-00834
Job Type 4 1/2 Liner
Job Date 04-07-2014

Lead Slurry - 04/07/2014 23:37:51 to 04/07/2014 23:50:46



Tail Slurry - 04/07/2014 23:50:52 to 04/08/2014 00:04:29





Cementing Service Report

					Customer Whiting			Job Number CMI1-00834							
Well Razor Federal 26J-3512B 26J-3512B				Location (legal) Cheyenne			Schlumberger Location Rock Springs			Job Start Apr/07/2014					
Field Old 10		Formation Name/Type			Deviation		Bit Size 6.0 in		Well MD 12325.0 ft		Well TVD				
County Weld		State/Province Colorado			BHP		BHST 200 degF		BHCT 200 degF		Pore Press. Gradient				
Well Master 0631537675		API/UWI													
Rig Name Xtreme 18		Drilled For Oil & Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						12325.0		4.500		11.6		N80		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 4 1/2 Liner													
Max. Allowed Tub. Press 4000 psi		Max. Allowed Ann. Press		WH Connection 4" FH DP pin		Perforations/Open Hole									
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 146.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 114.0 bbl		Annular Vol. 203.0 bbl		Openhole Vol. 410.0 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						Shoe Type Float				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12325.0 ft				Tool Type					
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type						Stage Tool Depth				Tail Pipe Size					
Job Scheduled For Apr/07/2014		Arrived on Location Apr/07/2014		Leave Location Apr/07/2014		Collar Type Float				Tail Pipe Depth					
						Collar Depth 12275.1 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
04/07/2014	22:25:28						Started Acquisition								
04/07/2014	23:12:54	11	0.0	8.35	0.0	0.0									
04/07/2014	23:12:55						Start Job								
04/07/2014	23:12:55	11	0.0	8.35	0.0	0.0									
04/07/2014	23:13:02						Start Pumping Water								
04/07/2014	23:13:02	10	0.0	8.35	0.0	0.0									
04/07/2014	23:13:04						Pressure Test Lines								
04/07/2014	23:13:04	11	0.0	8.35	0.0	0.0									
04/07/2014	23:13:28	11	0.0	8.35	0.0	0.0									
04/07/2014	23:16:28	474	0.0	8.38	0.4	0.4									
04/07/2014	23:19:28	543	0.0	8.35	0.8	0.8									
04/07/2014	23:22:28	4152	0.0	8.35	0.8	0.8									
04/07/2014	23:25:28	425	0.0	8.35	0.9	0.9									
04/07/2014	23:27:59						Pressure Test Back Side								
04/07/2014	23:27:59	877	0.0	8.34	0.9	0.9									
04/07/2014	23:28:28	2726	0.1	8.23	0.9	0.9									
04/07/2014	23:28:35						End Water								
04/07/2014	23:28:35	3432	0.0	8.34	0.9	0.9									
04/07/2014	23:28:37						Reset Total, Vol = 0.94 bbl								
04/07/2014	23:28:37	3420	0.0	8.34	0.9	0.9									
04/07/2014	23:29:29						Start Pumping Spacer								

Well Razor Federal 26J-3512B 26J-3512B			Field Old 10		Job Start Apr/07/2014	Customer Whiting	Job Number CMI1-00834
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
04/07/2014	23:31:28	665	0.3	8.35	1.1	0.2	
04/07/2014	23:34:28	1505	4.5	11.60	13.2	12.3	
04/07/2014	23:37:18						End Spacer
04/07/2014	23:37:18	2016	6.0	13.17	26.1	25.2	
04/07/2014	23:37:22						Reset Total, Vol = 29.60 bbl
04/07/2014	23:37:22	2255	6.2	13.24	26.5	25.6	
04/07/2014	23:37:28	2359	6.3	13.33	27.2	0.6	
04/07/2014	23:37:51						Start Mixing Lead Slurry
04/07/2014	23:37:51	2486	6.3	13.48	29.6	3.0	
04/07/2014	23:40:28	2626	6.3	13.53	46.1	19.5	
04/07/2014	23:43:28	1429	4.4	13.71	63.8	37.3	
04/07/2014	23:46:28	1332	4.5	13.50	77.2	50.7	
04/07/2014	23:49:28	1399	4.5	13.56	90.7	64.1	
04/07/2014	23:50:46						End Lead Slurry
04/07/2014	23:50:46	1399	4.5	13.54	96.5	70.0	
04/07/2014	23:50:47						Reset Total, Vol = 70.06 bbl
04/07/2014	23:50:47	1385	4.5	13.54	96.6	70.1	
04/07/2014	23:50:52						Start Mixing Tail Slurry
04/07/2014	23:50:52	1419	4.5	13.55	97.0	0.4	
04/07/2014	23:52:28	1393	4.5	13.58	104.2	7.6	
04/07/2014	23:55:28	1371	4.5	13.55	117.7	21.1	
04/07/2014	23:58:28	1399	4.5	13.54	131.1	34.5	
04/08/2014	00:01:28	1431	4.5	13.61	144.6	48.0	
04/08/2014	00:04:28	46	0.0	13.61	155.7	59.1	
04/08/2014	00:04:29						End Tail Slurry
04/08/2014	00:04:29	46	0.0	13.61	155.7	59.1	
04/08/2014	00:04:30						Reset Total, Vol = 60.08 bbl
04/08/2014	00:04:30	46	0.0	13.61	155.7	59.1	
04/08/2014	00:05:00						Wash Lines
04/08/2014	00:05:00	47	0.0	13.61	155.7	0.0	
04/08/2014	00:07:28	48	0.0	13.61	155.7	0.0	
04/08/2014	00:10:28	107	0.8	13.60	155.7	0.0	
04/08/2014	00:13:28	233	4.6	8.36	167.5	11.8	
04/08/2014	00:16:28	39	0.0	8.36	177.8	22.1	
04/08/2014	00:19:06						Reset Total, Vol = 22.78 bbl
04/08/2014	00:19:06	143	2.3	8.36	178.5	22.8	
04/08/2014	00:19:15						Drop Dart
04/08/2014	00:19:15	81	2.4	8.34	178.8	0.3	
04/08/2014	00:19:16						Start Displacement
04/08/2014	00:19:16	92	2.4	8.34	178.9	0.4	
04/08/2014	00:19:28	80	2.4	8.33	179.3	0.9	
04/08/2014	00:19:44						Start Fresh Water
04/08/2014	00:19:44	78	2.4	8.34	180.0	1.5	
04/08/2014	00:22:28	1421	4.5	8.37	189.2	10.7	
04/08/2014	00:23:09						Reset Total, Vol = 10.02 bbl
04/08/2014	00:23:09	1458	4.5	8.35	192.2	13.8	
04/08/2014	00:23:51						Start KCL Water
04/08/2014	00:23:51	1527	4.5	8.34	195.3	3.1	
04/08/2014	00:25:28	1730	4.5	8.34	202.6	10.4	
04/08/2014	00:28:28	1255	2.2	8.34	209.7	17.5	
04/08/2014	00:31:28	1657	3.3	8.34	216.7	24.5	
04/08/2014	00:34:28	1697	3.3	8.34	226.5	34.3	
04/08/2014	00:37:28	1689	3.3	8.35	236.3	44.1	
04/08/2014	00:40:28	1802	3.6	8.34	245.7	53.5	

Well			Field		Job Start		Customer		Job Number	
Razor Federal 26J-3512B 26J-3512B			Old 10		Apr/07/2014		Whiting		CMI1-00834	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message			
04/08/2014	00:46:28	1802	3.7	8.34	267.6	75.4				
04/08/2014	00:49:28	1818	3.7	8.34	278.5	86.3				
04/08/2014	00:52:28	1851	3.6	8.34	289.5	4.2				
04/08/2014	00:54:19						Reset Total, Vol = 104.09 bbl			
04/08/2014	00:54:19	1879	3.7	10.97	296.3	11.0				
04/08/2014	00:54:37						Start MUDPUSH			
04/08/2014	00:54:37	1921	3.7	11.49	297.4	12.1				
04/08/2014	00:55:28	1886	3.7	11.29	300.5	1.8				
04/08/2014	00:55:42						Reset Total, Vol = 5.09 bbl			
04/08/2014	00:55:42	1829	3.7	8.54	301.4	2.7				
04/08/2014	00:56:23						Start KCL Water			
04/08/2014	00:56:23	1810	3.7	8.34	303.9	2.5				
04/08/2014	00:58:28	1578	2.2	8.34	311.4	10.0				
04/08/2014	01:01:28	1479	2.2	8.36	318.1	16.7				
04/08/2014	01:04:28	1888	2.2	8.34	324.8	23.4				
04/08/2014	01:05:06						Reset Total, Vol = 25.5 bbl			
04/08/2014	01:05:06	2010	0.0	8.34	325.0	23.6				
04/08/2014	01:06:17						Bump Dart			
04/08/2014	01:06:17						End Displacement			
04/08/2014	01:06:17	2051	0.0	8.34	325.0	0.0				
04/08/2014	01:07:05						Total Displacement - 144.5bbl			
04/08/2014	01:07:05	2076	0.0	8.34	325.0	0.0				
04/08/2014	01:07:28	1539	0.0	8.34	325.0	0.0				
04/08/2014	01:08:23						Floats Held - 1bbl Back			
04/08/2014	01:08:23	33	0.0	8.34	325.0	0.0				
04/08/2014	01:09:08						Sting Out			
04/08/2014	01:09:08	33	0.0	8.34	325.0	0.0				
04/08/2014	01:10:28	33	0.0	8.34	325.0	0.0				
04/08/2014	01:13:28	33	0.0	8.34	325.0	0.0				
04/08/2014	01:16:28	32	0.0	8.34	325.0	0.0				
04/08/2014	01:19:28	31	0.0	8.35	325.0	0.0				
04/08/2014	01:22:28	32	0.1	8.35	325.0	0.0				
04/08/2014	01:22:52						Pump Through Back Side (Annulus)			
04/08/2014	01:22:52	856	1.6	8.34	325.4	0.4				
04/08/2014	01:25:28	1973	0.0	8.35	325.8	0.9				
04/08/2014	01:28:28	1973	0.0	8.35	325.8	0.9				
04/08/2014	01:31:28	1975	0.0	8.35	325.8	0.9				
04/08/2014	01:34:28	38	0.0	8.35	325.8	0.9				
04/08/2014	01:37:28	519	3.8	4.51	327.5	2.5				
04/08/2014	01:38:48						Reset Total, Vol = 3.04 bbl			
04/08/2014	01:38:48	528	0.0	8.42	328.0	3.0				
04/08/2014	01:39:23						Circulate Out			
04/08/2014	01:39:23	530	0.0	8.42	328.0	0.0				
04/08/2014	01:40:28	539	0.0	8.42	328.1	0.1				
04/08/2014	01:43:28	1349	4.1	8.37	334.4	6.4				
04/08/2014	01:46:28	1368	4.1	8.36	346.8	18.8				
04/08/2014	01:49:28	1435	4.5	8.35	351.9	23.9				
04/08/2014	01:52:28	1341	4.5	8.35	365.3	37.3				
04/08/2014	01:55:28	1229	4.5	8.34	378.8	50.8				
04/08/2014	01:58:28	467	0.0	8.34	385.9	57.9				
04/08/2014	02:00:24						48bbl Cement To Surface			
04/08/2014	02:00:24	704	2.9	8.34	389.9	61.9				
04/08/2014	02:01:28	848	3.3	8.34	393.3	65.3				
04/08/2014	02:04:28	960	4.5	8.34	406.0	78.0				

Well			Field		Job Start	Customer		Job Number
Razor Federal 26J-3512B 26J-3512B			Old 10		Apr/07/2014	Whiting		CMI1-00834
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
04/08/2014	02:10:28	664	4.5	8.34	433.0	105.0		
04/08/2014	02:13:28	619	4.5	8.34	446.5	118.5		
04/08/2014	02:16:28	32	0.0	8.34	450.3	122.3		
04/08/2014	02:19:28	29	0.0	8.34	450.3	122.3		
04/08/2014	02:22:28	216	4.6	8.36	454.8	126.8		
04/08/2014	02:22:39						Reset Total, Vol = 116.43 bbl	
04/08/2014	02:22:39	195	4.6	8.36	455.6	127.6		
04/08/2014	02:23:17	199	4.6	8.35	458.5	2.9		
04/08/2014	02:23:17						Stopped Acquisition	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 3.5	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 132.0	Mud 0.0	Spacer 30.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 4230	Final 199	Average 1068	Bump Plug to	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 133.0 bbl		Displacement 144.5 bbl	Mix Water Temp 50 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 48.0 bbl	
						Washed Thru Perfs <input type="checkbox"/>		To		
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>		
Kyle Renton			Michael Simon/T Morrow			-		-		