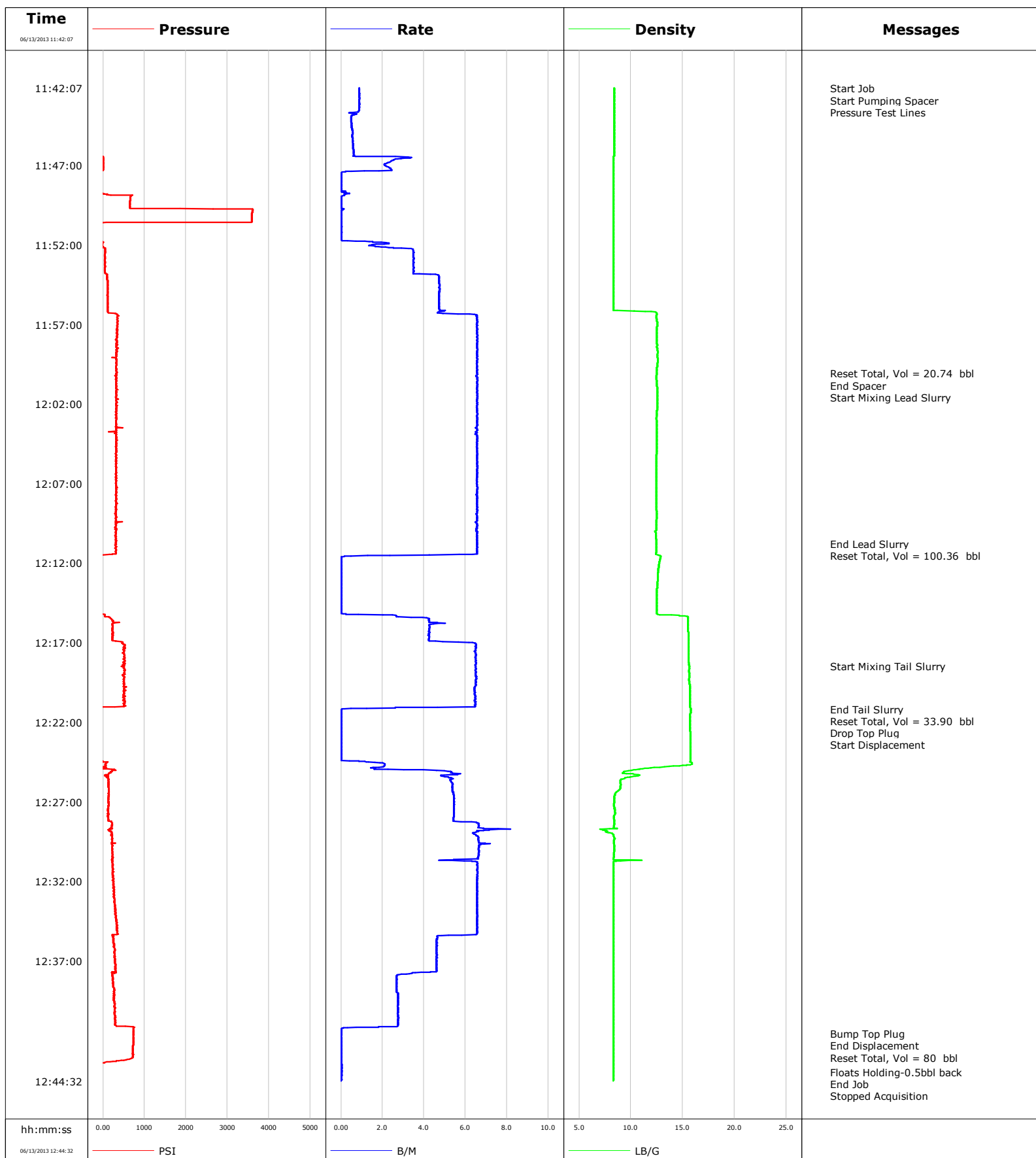


Well Hagen 15-14A
Field Parachute
Engineer Michael Simon
Country United States

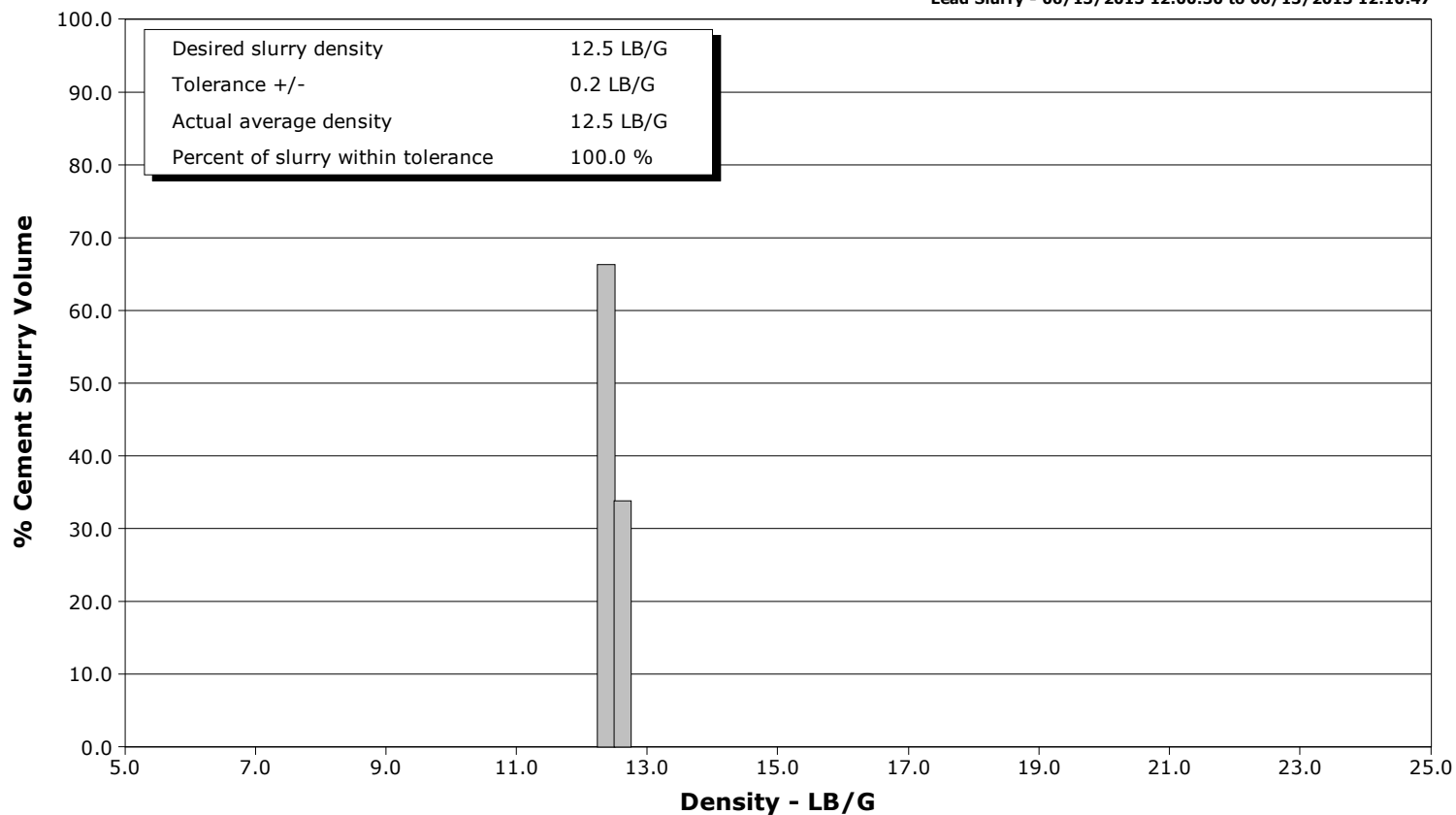
Client Encana
SIR No. C459-01502
Job Type Surface
Job Date 06-13-2013



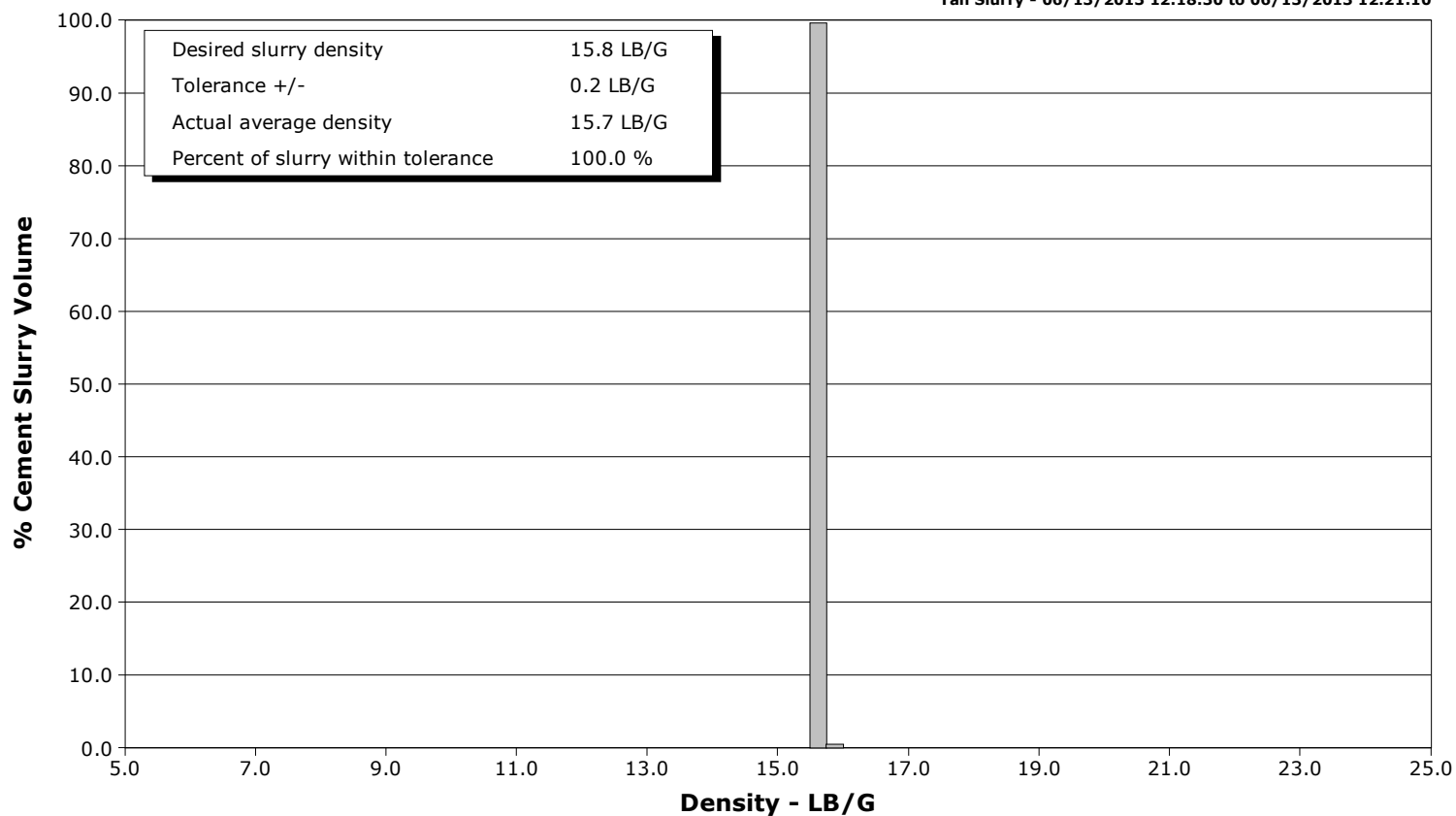
Well Hagen 15-14A
Field Parachute
Engineer Michael Simon
Country United States

Client Encana
SIR No. C459-01502
Job Type Surface
Job Date 06-13-2013

Lead Slurry - 06/13/2013 12:00:30 to 06/13/2013 12:10:47



Tail Slurry - 06/13/2013 12:18:30 to 06/13/2013 12:21:10





Cementing Service Report

					Customer Encana			Job Number C459-01502							
Well Hagen 15-14A 15-14A				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Jun/13/2013					
Field Parachute		Formation Name/Type			Deviation		Bit Size 12.7 in		Well MD 1079.0 ft		Well TVD 1079.0 ft				
County Garfield		State/Province Colorado			BHP		BHST 94 degF		BHCT 85 degF		Pore Press. Gradient				
Well Master 0631473066		API/UWI 05045220190000													
Rig Name Patterson 303		Drilled For Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						1077.5		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density 9.30 lb/gal		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type Surface													
Max. Allowed Tub. Press 4000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval	
														Diameter	
						Treat Down Casing		Displacement 80.0 bbl		Packer Type		Packer Depth			
						Tubing Vol.		Casing Vol. 83.3 bbl		Annular Vol. 75.0 bbl		Openhole Vol. 161.0 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 533 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1077.5 ft				Tool Type							
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single				Stage Tool Depth				Tail Pipe Size							
Job Scheduled For Jun/13/2013		Arrived on Location Jun/13/2013		Leave Location Jun/13/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 1031.8 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
06/13/2013	11:03:53						Started Acquisition								
06/13/2013	11:42:07	-52	0.9	8.41	0.0	0.0									
06/13/2013	11:42:09						Start Job								
06/13/2013	11:42:09	-52	0.9	8.41	0.0	0.0									
06/13/2013	11:42:15						Start Pumping Spacer								
06/13/2013	11:42:15	-52	0.9	8.41	0.1	0.1									
06/13/2013	11:42:19						Pressure Test Lines								
06/13/2013	11:42:19	-51	0.9	8.41	0.2	0.2									
06/13/2013	11:42:53	-52	0.9	8.41	0.7	0.7									
06/13/2013	11:45:53	-52	0.6	8.41	2.6	2.6									
06/13/2013	11:48:53	722	0.2	8.30	5.2	5.2									
06/13/2013	11:51:53	-0	2.3	8.30	5.5	5.5									
06/13/2013	11:54:53	112	4.7	8.30	16.7	16.7									
06/13/2013	11:57:53	330	6.6	12.49	33.8	33.8									
06/13/2013	12:00:05						Reset Total, Vol = 20.74 bbl								
06/13/2013	12:00:05						End Spacer								
06/13/2013	12:00:05	314	6.6	12.49	48.2	48.2									
06/13/2013	12:00:30						Start Mixing Lead Slurry								
06/13/2013	12:00:30	321	6.6	12.48	2.2	2.2									
06/13/2013	12:00:53	324	6.6	12.52	4.7	4.7									
06/13/2013	12:03:53	316	6.5	12.51	24.4	24.4									

Well			Field		Job Start	Customer	Job Number
Hagen 15-14A 15-14A			Parachute		Jun/13/2013	Encana	C459-01502
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/13/2013	12:09:53	297	6.5	12.47	63.7	63.7	
06/13/2013	12:10:47						End Lead Slurry
06/13/2013	12:10:47	325	6.6	12.44	69.6	69.6	
06/13/2013	12:10:48						Reset Total, Vol = 100.36 bbl
06/13/2013	12:10:48	321	6.6	12.44	69.7	69.7	
06/13/2013	12:12:53	-37	0.0	12.59	0.0	0.0	
06/13/2013	12:15:53	221	4.3	15.49	2.5	2.5	
06/13/2013	12:18:30						Start Mixing Tail Slurry
06/13/2013	12:18:30	448	6.5	15.63	17.1	17.1	
06/13/2013	12:18:53	528	6.5	15.62	19.6	19.6	
06/13/2013	12:21:10						End Tail Slurry
06/13/2013	12:21:10	-41	0.1	15.80	33.9	33.9	
06/13/2013	12:21:11						Reset Total, Vol = 33.90 bbl
06/13/2013	12:21:11	-40	0.1	15.80	33.9	33.9	
06/13/2013	12:21:12						Drop Top Plug
06/13/2013	12:21:12	-41	0.0	15.80	0.0	0.0	
06/13/2013	12:21:13						Start Displacement
06/13/2013	12:21:13	-41	0.0	15.80	0.0	0.0	
06/13/2013	12:21:53	-41	0.0	15.70	0.0	0.0	
06/13/2013	12:24:53	13	1.6	11.70	0.8	0.8	
06/13/2013	12:27:53	115	5.4	8.37	16.5	16.5	
06/13/2013	12:30:53	245	6.6	8.30	35.9	35.9	
06/13/2013	12:33:53	296	6.6	8.31	55.6	55.6	
06/13/2013	12:36:53	286	4.6	8.31	72.4	72.4	
06/13/2013	12:39:53	272	2.7	8.30	82.2	82.2	
06/13/2013	12:41:33						Bump Top Plug
06/13/2013	12:41:33	731	0.0	8.30	85.7	85.7	
06/13/2013	12:41:34						End Displacement
06/13/2013	12:41:34	735	0.0	8.30	85.7	85.7	
06/13/2013	12:41:37						Reset Total, Vol = 80 bbl
06/13/2013	12:41:37	732	0.0	8.30	85.7	85.7	
06/13/2013	12:42:53	729	0.0	8.30	85.7	0.0	
06/13/2013	12:43:57						Floats Holding-0.5bbl back
06/13/2013	12:43:57	-52	0.0	8.30	85.7	0.0	
06/13/2013	12:44:25						End Job
06/13/2013	12:44:25	-51	0.0	8.30	85.7	0.1	
06/13/2013	12:44:32	-52	0.0	8.31	85.7	0.1	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.4	N2	Mud 0.0	Maximum Rate 8.2		Total Slurry 133.0	Mud 0.0	Spacer 20.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 3609	Final -52	Average 359	Bump Plug to 755	Breakdown	Type		Volume		Density		
Avg. N2 Percent		Designed Slurry Volume 129.0 bbl		Displacement 80.0 bbl		Mix Water Temp 80 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 50.0 bbl	
								Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative Terry Dunn				Schlumberger Supervisor Michael Simon				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	