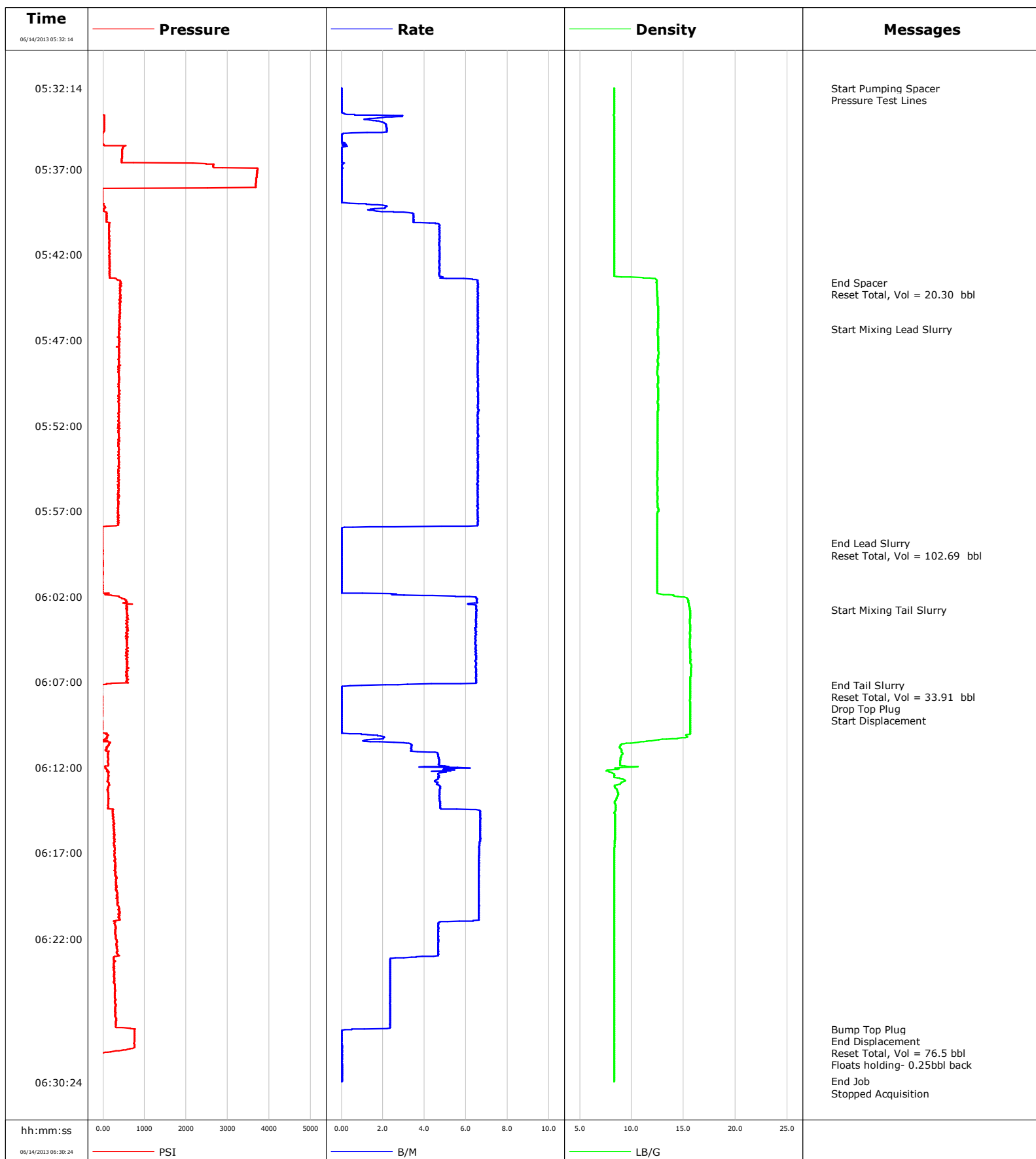


**Well** Hagen 223B  
**Field** Parachute  
**Engineer** Michael Simon  
**Country** United States

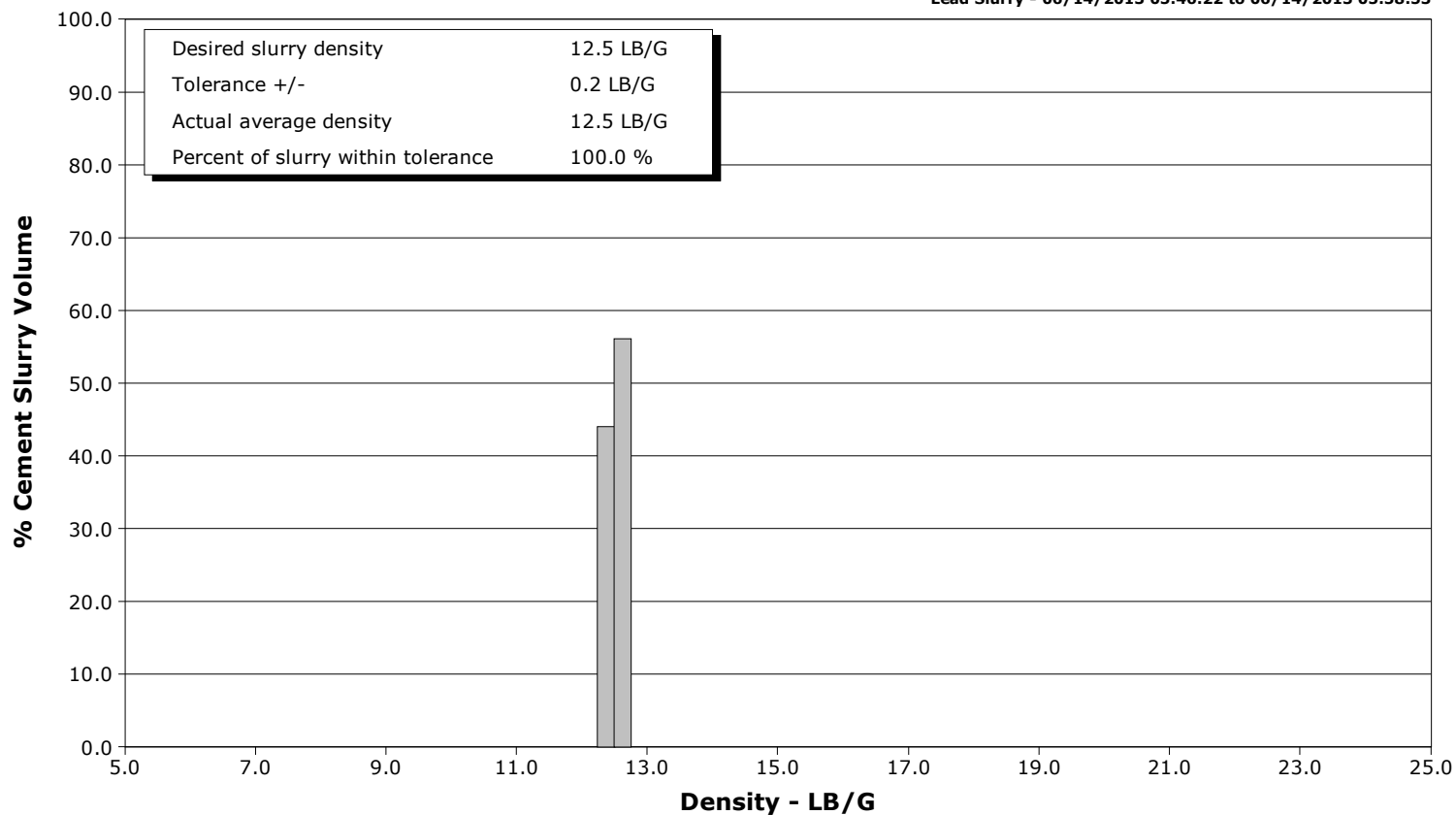
**Client** Encana  
**SIR No.** C459-01503  
**Job Type** Surface  
**Job Date** 06-14-2013



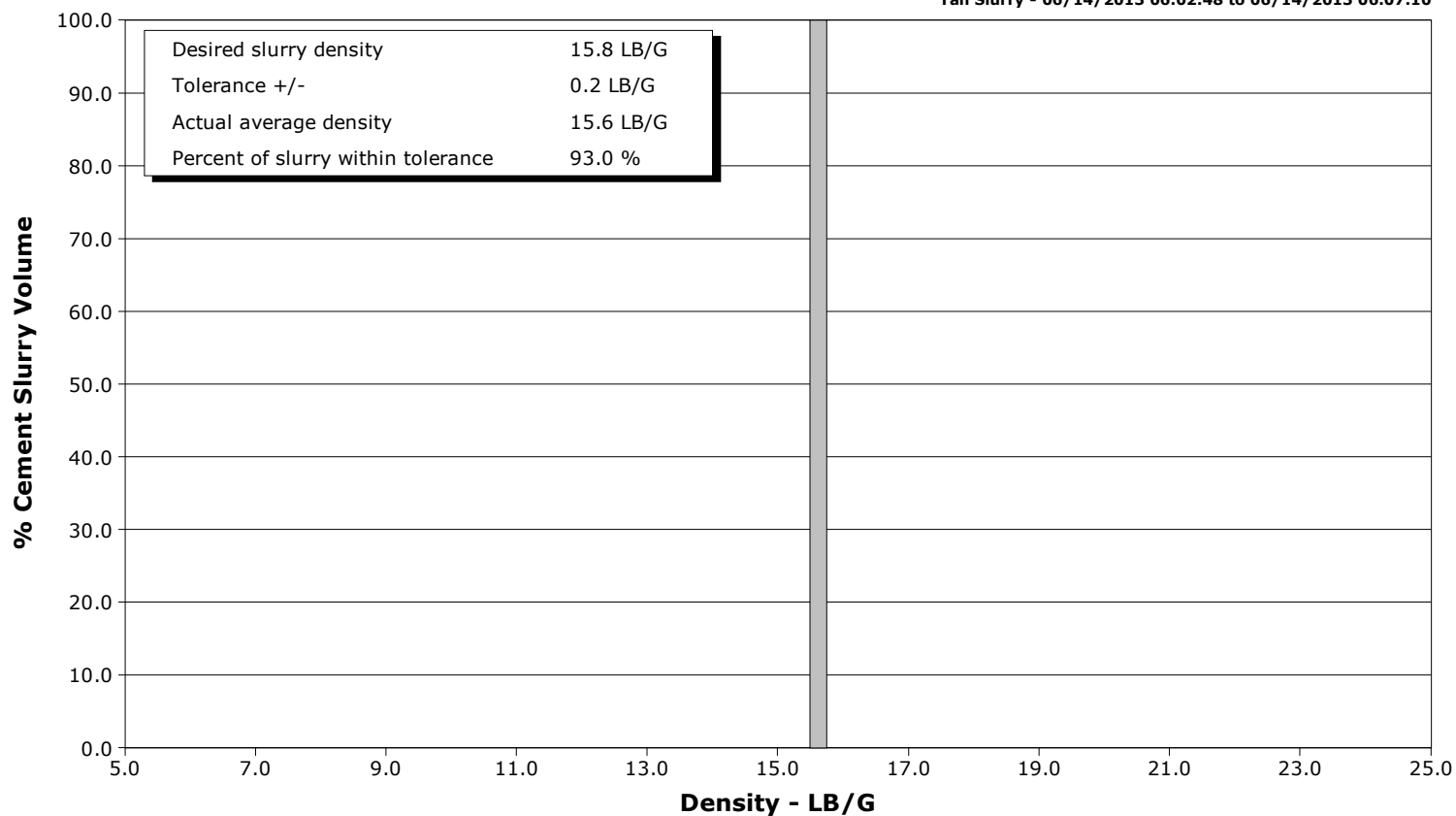
**Well** Hagen 223B  
**Field** Parachute  
**Engineer** Michael Simon  
**Country** United States

**Client** Encana  
**SIR No.** C459-01503  
**Job Type** Surface  
**Job Date** 06-14-2013

**Lead Slurry - 06/14/2013 05:46:22 to 06/14/2013 05:58:53**



**Tail Slurry - 06/14/2013 06:02:48 to 06/14/2013 06:07:10**





# Cementing Service Report

					Customer Encana		Job Number C459-01503						
Well Hagen 223B 22-3B			Location (legal) Grand Junction		Schlumberger Location Rock Springs		Job Start Jun/14/2013						
Field Parachute		Formation Name/Type		Deviation	Bit Size 12.7 in	Well MD 1039.0 ft		Well TVD 1039.0 ft					
County Garfield		State/Province Colorado		BHP	BHST 94 degF	BHCT 85 degF	Pore Press. Gradient						
Well Master 0631473067		API/UWI 05045220170000											
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			
						1039.0	9.630	36.0	J55	8RD			
Drilling Fluid Type		Max. Density 9.50 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 76.5 bbl		Packer Type		Packer Depth	
						Tubing Vol.		Casing Vol. 80.3 bbl		Annular Vol. 72.0 bbl		Openhole Vol. 155.0 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 514 psi				Shoe Type Guide			Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1039.0 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/14/2013		Arrived on Location Jun/14/2013		Leave Location Jun/14/2013		Collar Type Float		Tail Pipe Depth					
						Collar Depth 991.8 ft		Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message						
06/14/2013	04:10:09						Started Acquisition						
06/14/2013	05:32:12						Start Job						
06/14/2013	05:32:14	-27	0.0	8.31	0.0	0.0							
06/14/2013	05:32:15						Start Pumping Spacer						
06/14/2013	05:32:15	-27	0.0	8.31	0.0	0.0							
06/14/2013	05:32:18						Pressure Test Lines						
06/14/2013	05:32:18	-27	0.0	8.31	0.0	0.0							
06/14/2013	05:34:09	26	1.5	8.31	0.7	0.7							
06/14/2013	05:37:09	3709	0.0	8.30	2.2	2.2							
06/14/2013	05:40:09	151	4.3	8.30	5.4	5.4							
06/14/2013	05:43:09	164	4.7	8.30	19.5	19.5							
06/14/2013	05:43:38						End Spacer						
06/14/2013	05:43:38	417	6.6	12.38	22.2	22.2							
06/14/2013	05:43:39						Reset Total, Vol = 20.30 bbl						
06/14/2013	05:43:39	429	6.6	12.38	22.3	22.3							
06/14/2013	05:46:09	383	6.6	12.54	16.4	16.4							
06/14/2013	05:46:22						Start Mixing Lead Slurry						
06/14/2013	05:46:22	373	6.5	12.52	17.8	17.8							
06/14/2013	05:49:09	383	6.6	12.54	36.1	36.1							
06/14/2013	05:52:09	357	6.6	12.52	55.8	55.8							
06/14/2013	05:55:09	392	6.6	12.48	75.5	75.5							

Well			Field		Job Start	Customer	Job Number
Hagen 223B 22-3B			Parachute		Jun/14/2013	Encana	C459-01503
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/14/2013	05:58:53						End Lead Slurry
06/14/2013	05:58:53	-18	0.0	12.45	93.7	93.7	
06/14/2013	05:58:56						Reset Total, Vol = 102.69 bbl
06/14/2013	05:58:56	-18	0.0	12.45	93.7	93.7	
06/14/2013	06:01:09	-12	0.0	12.46	0.0	0.0	
06/14/2013	06:02:48						Start Mixing Tail Slurry
06/14/2013	06:02:48	563	6.5	15.60	5.8	5.8	
06/14/2013	06:04:09	556	6.5	15.62	14.5	14.5	
06/14/2013	06:07:09	78	3.2	15.66	33.8	33.8	
06/14/2013	06:07:10						End Tail Slurry
06/14/2013	06:07:10	-29	2.7	15.65	33.8	33.8	
06/14/2013	06:07:12						Reset Total, Vol = 33.91 bbl
06/14/2013	06:07:12	-39	1.0	15.63	33.9	33.9	
06/14/2013	06:07:13						Drop Top Plug
06/14/2013	06:07:13						Start Displacement
06/14/2013	06:07:13	-39	0.4	15.63	0.0	0.0	
06/14/2013	06:10:09	112	1.7	15.26	0.2	0.2	
06/14/2013	06:13:09	126	4.8	8.37	12.4	12.4	
06/14/2013	06:16:09	282	6.7	8.39	29.9	29.9	
06/14/2013	06:19:09	308	6.6	8.31	49.8	49.8	
06/14/2013	06:22:09	338	4.7	8.31	67.4	67.4	
06/14/2013	06:25:09	282	2.3	8.31	76.7	76.7	
06/14/2013	06:27:19						Bump Top Plug
06/14/2013	06:27:19						End Displacement
06/14/2013	06:27:19	744	0.5	8.31	81.7	81.7	
06/14/2013	06:27:22						Reset Total, Vol = 76.5 bbl
06/14/2013	06:27:22	758	0.1	8.31	81.7	81.7	
06/14/2013	06:28:09	743	0.0	8.31	0.0	0.0	
06/14/2013	06:28:20						Floats holding- 0.25bbl back
06/14/2013	06:28:20	756	0.0	8.31	0.0	0.0	
06/14/2013	06:30:22						End Job
06/14/2013	06:30:22	-30	0.0	8.31	0.1	0.1	
06/14/2013	06:30:24	-30	0.0	8.31	0.1	0.1	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 4.5	N2	Mud 0.0	Maximum Rate 6.7		Total Slurry 136.0	Mud 0.0	Spacer 20.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 3722	Final -31	Average 429	Bump Plug to 747	Breakdown	Type		Volume		Density		
Avg. N2 Percent		Designed Slurry Volume 125.0 bbl		Displacement 76.5 bbl		Mix Water Temp 70 degF		Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 46.0 bbl	
								Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative Vlad Kochetov				Schlumberger Supervisor Michael Simon				Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-	