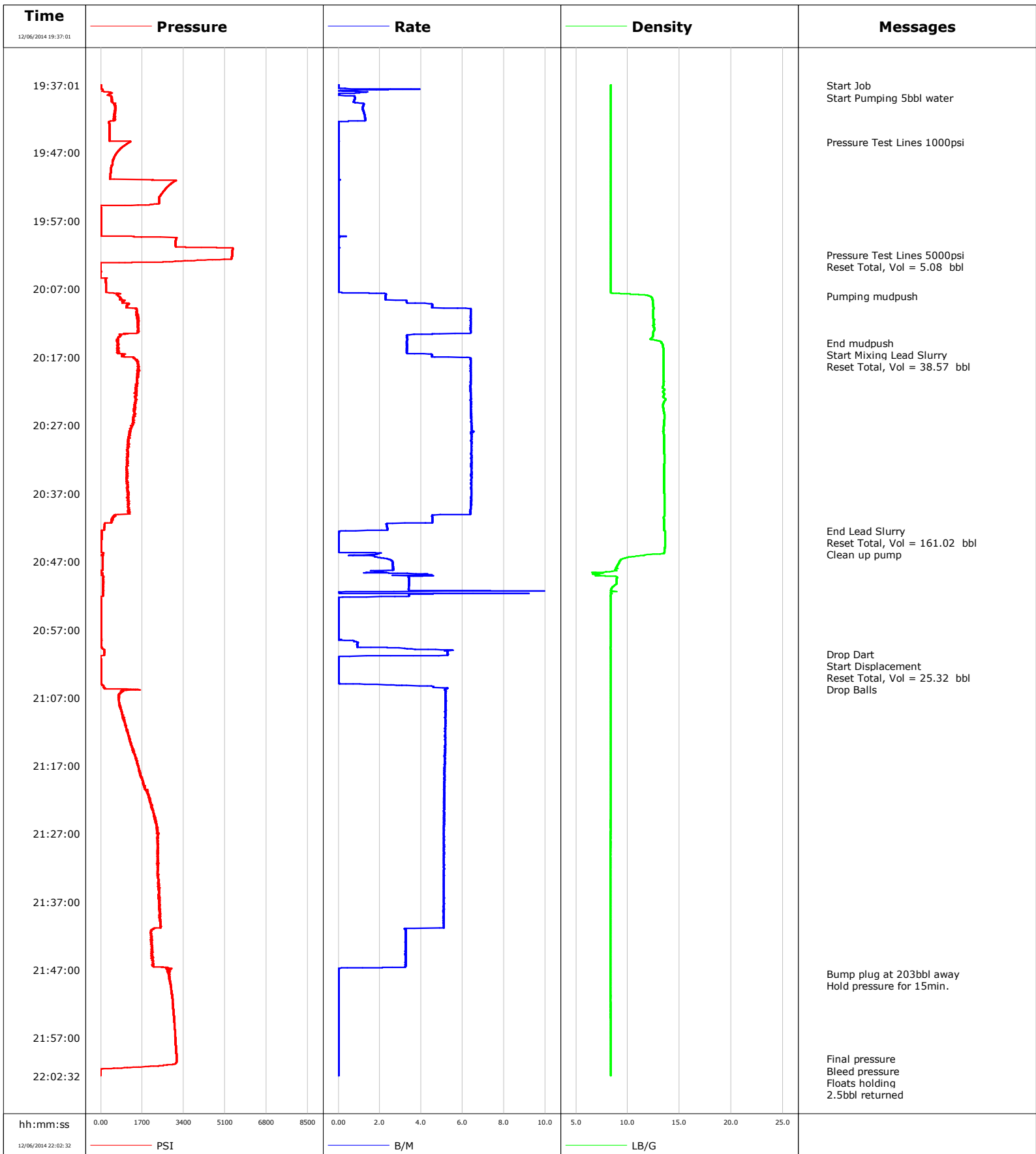


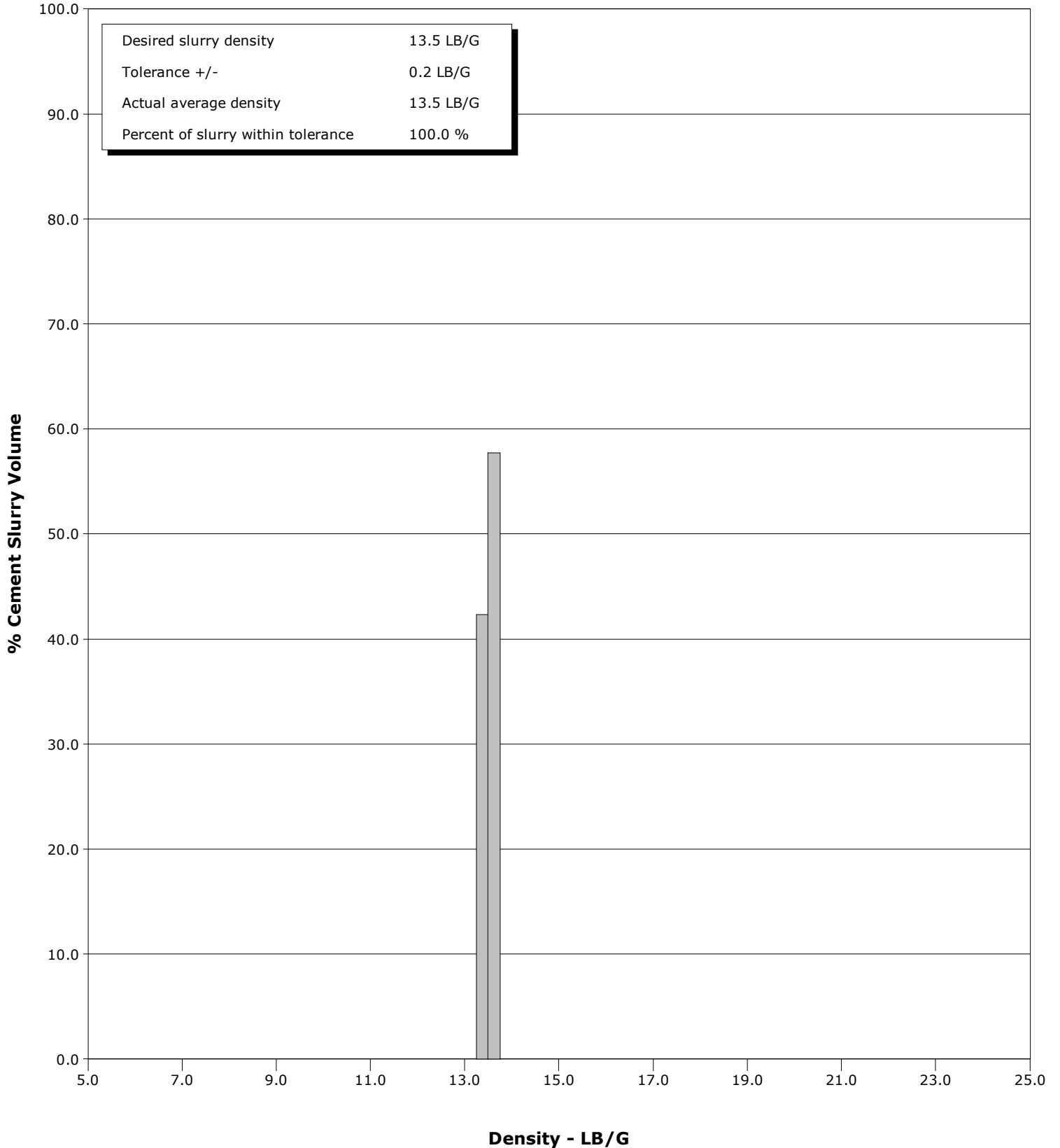
Well	Grant Elmquist	Client	Encana
Field	DJ	SIR No.	D5VO-00065
Engineer	Chris Valerio/Charles Peavey	Job Type	Production
Country	United States	Job Date	12-06-2014



Well Grant Elmquist
Field DJ
Engineer Chris Valerio/Charles Peavey
Country United States

Client Encana
SIR No. D5VO-00065
Job Type Production
Job Date 12-06-2014

Cement Slurry - 12/06/2014 20:15:05 to 12/06/2014 20:42:32



				Customer			Job Number		
				Encana			D5VO-00065		
Well		Location (legal)			Schlumberger Location			Job Start	
Grant Elmquist 2D-14H								Dec/06/2014	
Field		Formation Name/Type		Deviation	Bit Size		Well MD	Well TVD	
DJ		Shale		90 deg	6.1 in		13890.0 ft	7472.0 ft	
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient		
Weld		Colorado		psi	215 degF	215 degF	lb/gal		
Well Master		API/UWI							
0631480026		05123376430000							
Rig Name	Drilled For	Service Via		Casing/Liner					
Ensign #135	Oil	Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class	Well Type		7838.0	7.0	26.0	P110	BUTT	
	New	Development		13890.0	4.5	13.5	P110	8RD	
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe				
Other		11.30 lb/gal	cP		T/D	Depth, ft	Size, in	Weight, lb/ft	Grade
Service Line	Job Type								
Cementing	Production								
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection		Perforations/Open Hole					
5000 psi	psi	Blackhawk CMT head		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval	
Service Instructions 5bbl Water 40bbl 12.5# 160bbl 534sks Lead CMT @ 13.5# 1.68 Yield 8.11 gal/sk water				ft	ft			ft	
				ft	ft			Diameter	
				ft	ft			in	
Treat Down		Displacement		Packer Type		Packer Depth			
Casing		206.9 bbl				ft			
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.			
bbl		206.9 bbl		247.3 bbl		bbl			
Casing/Tubing Secured		1 Hole Vol. Circulated prior to Cement		Casing Tools			Squeeze Job		
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							
Lift Pressure		psi		Shoe Type		Squeeze Type			
				Float					
Pipe Rotated		Pipe Reciprocated		Shoe Depth		Tool Type			
<input checked="" type="checkbox"/>		<input type="checkbox"/>		13890.0 ft					
No. Centralizers		Top Plugs	Bottom Plugs		Stage Tool Type		Tool Depth		
		1					ft		
Cement Head Type		Single		Stage Tool Depth		Tail Pipe Size			
				ft		in			
Job Scheduled For		Arrived on Location		Leave Location		Collar Type		Tail Pipe Depth	
Dec/06/2014 10:00		Dec/06/2014 10:00		Dec/06/2014 23:00		Float		ft	
						Collar Depth		Sqz. Total Vol.	
						13886.0 ft		bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/06/2014	19:37:01	1	0.0	8.35	0.0	Started Acquisition			
12/06/2014	19:37:08	1	0.0	8.35	0.0	Start Job			
12/06/2014	19:37:10	2	0.0	8.35	0.0	Start Pumping 5bbl water			
12/06/2014	19:42:01	568	1.3	8.35	4.6				
12/06/2014	19:45:26	1199	0.0	8.35	5.0	Pressure Test Lines 1000psi			
12/06/2014	19:47:01	657	0.0	8.35	5.0				
12/06/2014	19:52:01	2738	0.0	8.35	5.0				
12/06/2014	19:57:01	2	0.0	8.35	5.0				
12/06/2014	20:01:58	5388	0.0	8.35	5.1	Pressure Test Lines 5000psi			
12/06/2014	20:02:01	5387	0.0	8.34	5.1				
12/06/2014	20:02:48	3979	0.0	8.35	5.1	Reset Total, Vol = 5.08 bbl			
12/06/2014	20:07:01	205	0.0	8.35	5.1				
12/06/2014	20:07:59	693	2.3	11.96	6.0	Pumping mudpush			
12/06/2014	20:12:01	1543	6.4	12.48	26.3				
12/06/2014	20:14:54	718	3.3	13.24	40.7	End mudpush			
12/06/2014	20:15:05	731	3.3	13.34	41.3	Start Mixing Lead Slurry			
12/06/2014	20:15:48	718	3.3	13.45	43.7	Reset Total, Vol = 38.57 bbl			
12/06/2014	20:17:01	1349	4.7	13.45	48.3				
12/06/2014	20:22:01	1433	6.4	13.43	80.2				
12/06/2014	20:27:01	1317	6.4	13.49	112.2				
12/06/2014	20:32:01	1106	6.4	13.53	144.3				

Well		Field		Job Start		Customer		Job Number	
Grant Elmquist 2D-14H		DJ		Dec/06/2014		Encana		D5VO-00065	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
12/06/2014	20:42:01	142	2.4	13.51	203.5				
12/06/2014	20:42:32	22	0.3	13.58	204.7	End Lead Slurry			
12/06/2014	20:42:38	24	0.0	13.60	204.7	Reset Total, Vol = 161.02 bbl			
12/06/2014	20:42:51	24	0.0	13.60	204.7	Clean up pump			
12/06/2014	20:47:01	64	2.6	9.22	207.3				
12/06/2014	20:52:01	85	3.4	8.36	222.5				
12/06/2014	20:57:01	13	0.0	8.35	223.1				
12/06/2014	21:00:35	157	5.3	8.35	228.4	Drop Dart			
12/06/2014	21:00:57	-11	0.2	8.35	230.0	Reset Total, Vol = 25.32 bbl			
12/06/2014	21:02:01	2	0.0	8.35	230.0				
12/06/2014	21:05:05	36	1.5	8.35	230.1	Drop Balls			
12/06/2014	21:07:01	724	5.2	8.34	239.5				
12/06/2014	21:12:01	1103	5.2	8.34	265.3				
12/06/2014	21:17:01	1524	5.1	8.34	291.0				
12/06/2014	21:22:01	2023	5.1	8.34	316.6				
12/06/2014	21:27:01	2343	5.1	8.33	342.1				
12/06/2014	21:32:01	2343	5.1	8.33	367.6				
12/06/2014	21:37:01	2397	5.1	8.33	393.0				
12/06/2014	21:42:01	2092	3.3	8.33	416.3				
12/06/2014	21:47:01	2820	0.0	8.33	431.4				
12/06/2014	21:47:33	2801	0.0	8.33	431.4	Bump plug at 203bbl away			
12/06/2014	21:47:47	2799	0.0	8.33	431.4	Hold pressure for 15min.			
12/06/2014	21:52:01	2956	0.0	8.33	431.4				
12/06/2014	21:57:01	3058	0.0	8.34	431.4				
12/06/2014	22:00:02	3109	0.0	8.34	431.4	Final pressure			
12/06/2014	22:01:06	2354	0.0	8.34	431.4	Bleed pressure			
12/06/2014	22:01:50	-5	0.0	8.34	431.4	Floats holding			
12/06/2014	22:02:01	-3	0.0	8.34	431.4				
12/06/2014	22:02:05	-3	0.0	8.34	431.4	2.5bbl returned			

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.4			6.0	160.0	0.0	40.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3109	3109	1372	2000			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Washed Thru Perfs	Volume	To
%	160.0 bbl	203.0 bbl	54 degF	<input type="checkbox"/>	<input type="checkbox"/>	0.0 bbl	ft
Customer or Authorized Representative			Schlumberger Supervisor		Circulation Lost	Job Completed	
Dennis Elrod			Chris Valerio/Charles Peavey		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					-	-	