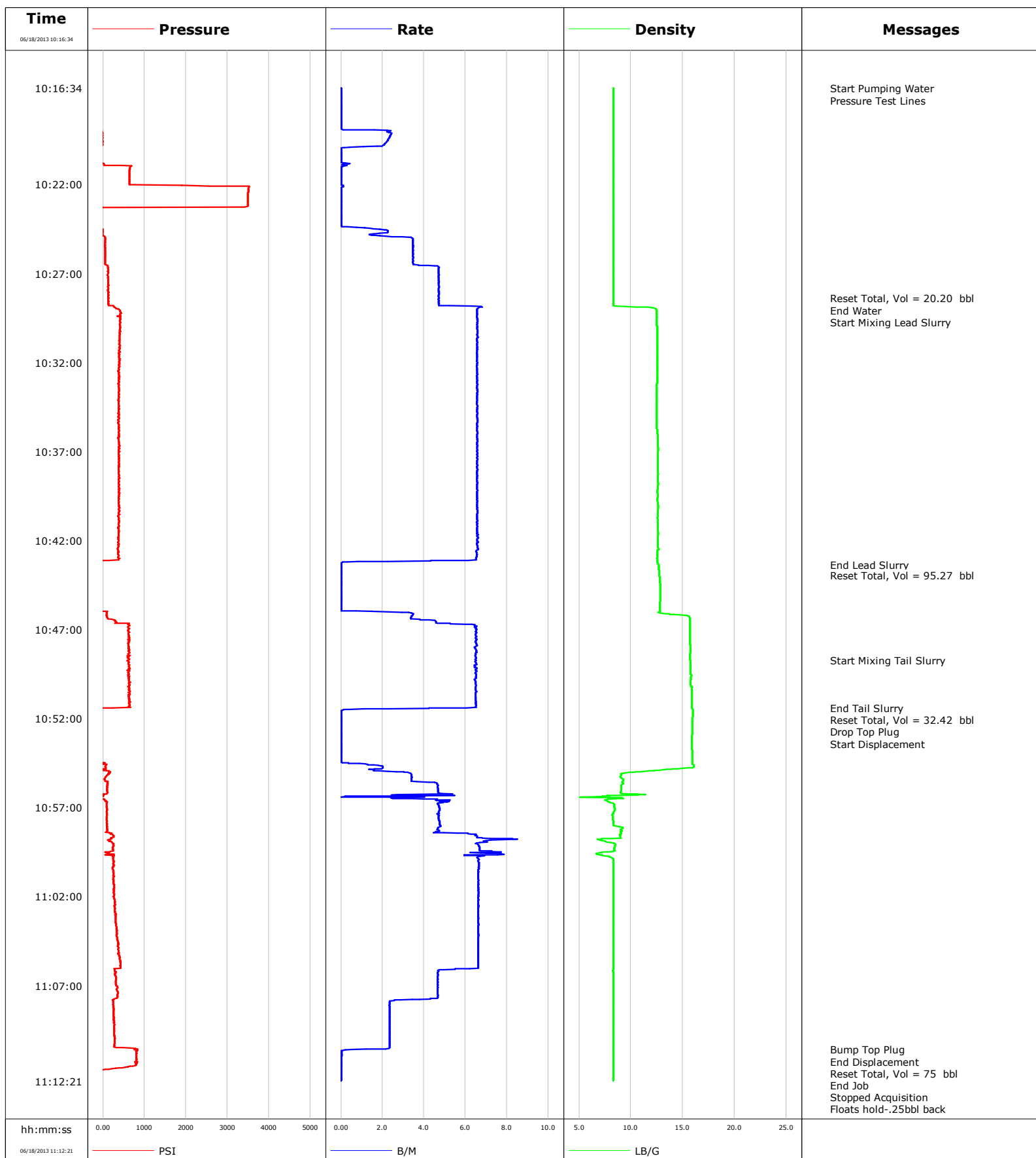


Well Hagen 15-13D
Field Parachute
Engineer Michael Simon
Country United States

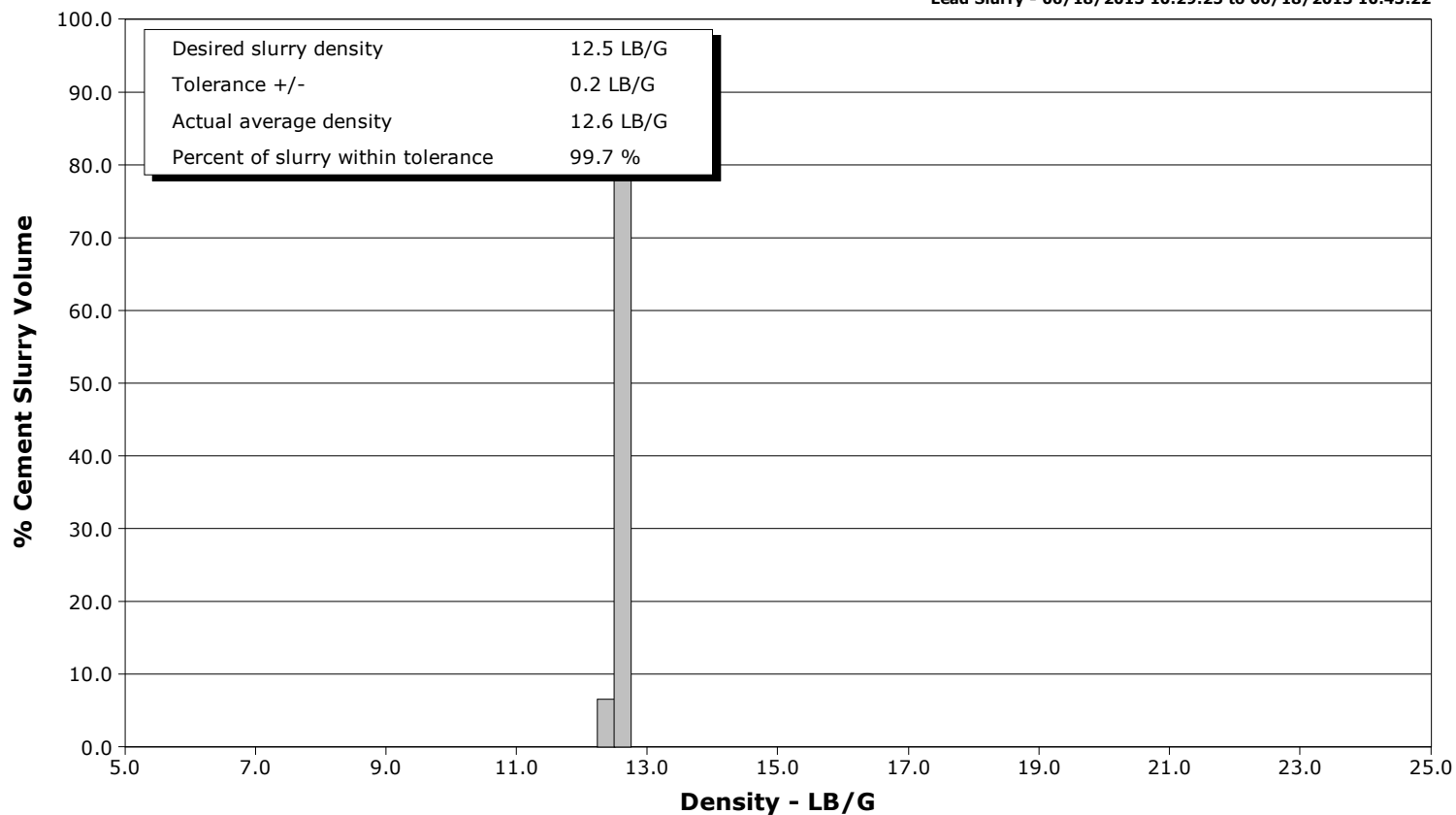
Client Encana
SIR No. C459-01506
Job Type Surface
Job Date 06-18-2013



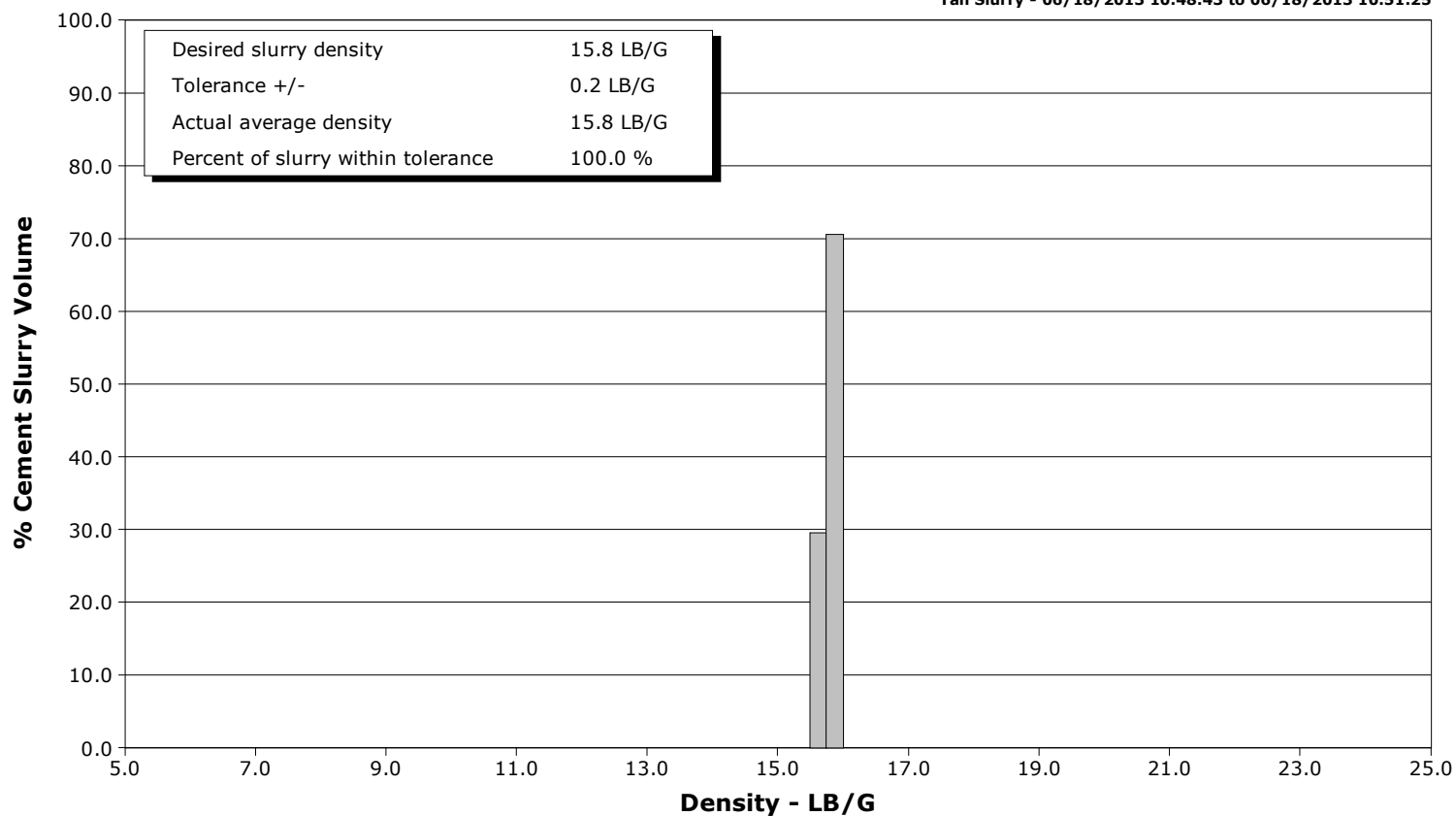
Well Hagen 15-13D
Field Parachute
Engineer Michael Simon
Country United States

Client Encana
SIR No. C459-01506
Job Type Surface
Job Date 06-18-2013

Lead Slurry - 06/18/2013 10:29:25 to 06/18/2013 10:43:22



Tail Slurry - 06/18/2013 10:48:43 to 06/18/2013 10:51:25





Cementing Service Report

					Customer Encana			Job Number C459-01506							
Well Hagen 15-13D 15-13D				Location (legal) Grand Junction			Schlumberger Location Rock Springs			Job Start Jun/18/2013					
Field Parachute		Formation Name/Type Shale			Deviation		Bit Size 12.7 in		Well MD 1025.0 ft		Well TVD 1011.5 ft				
County Garfield		State/Province Colorado			BHP		BHST 94 degF		BHCT 85 degF		Pore Press. Gradient				
Well Master 0631473070		API/UWI 05045220180000													
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	
						1011.5		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 75.0 bbl		Packer Type		Packer Depth							
		Tubing Vol.		Casing Vol. 78.2 bbl		Annular Vol. 70.0 bbl		Openhole Vol. 151.0 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 500 psi				Shoe Type Guide				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1011.5 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/18/2013		Arrived on Location Jun/18/2013		Leave Location Jun/18/2013		Collar Type Float				Tail Pipe Depth					
						Collar Depth 968.8 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message								
06/18/2013	08:31:02						Started Acquisition								
06/18/2013	10:16:31						Start Job								
06/18/2013	10:16:34	-68	0.0	8.31	0.0	0.0									
06/18/2013	10:16:37						Start Pumping Water								
06/18/2013	10:16:37	-68	0.0	8.30	0.0	0.0									
06/18/2013	10:16:39						Pressure Test Lines								
06/18/2013	10:16:39	-68	0.0	8.31	0.0	0.0									
06/18/2013	10:19:02	-27	2.2	8.31	0.2	0.2									
06/18/2013	10:22:02	658	0.0	8.30	2.2	2.2									
06/18/2013	10:25:02	58	3.5	8.30	3.6	3.6									
06/18/2013	10:28:02	134	4.7	8.30	15.8	15.8									
06/18/2013	10:28:23						Reset Total, Vol = 20.20 bbl								
06/18/2013	10:28:23	133	4.7	8.30	17.4	17.4									
06/18/2013	10:28:24						End Water								
06/18/2013	10:28:24	136	4.7	8.30	17.5	17.5									
06/18/2013	10:29:25						Start Mixing Lead Slurry								
06/18/2013	10:29:25	355	6.5	12.52	0.2	0.2									
06/18/2013	10:31:02	413	6.5	12.54	10.8	10.8									
06/18/2013	10:34:02	389	6.6	12.50	30.5	30.5									
06/18/2013	10:37:02	395	6.6	12.61	50.2	50.2									
06/18/2013	10:40:02	392	6.6	12.63	69.9	69.9									

Well			Field		Job Start	Customer	Job Number
Hagen 15-13D 15-13D			Parachute		Jun/18/2013	Encana	C459-01506
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
06/18/2013	10:43:22						End Lead Slurry
06/18/2013	10:43:22	-54	0.0	12.67	90.4	90.4	
06/18/2013	10:43:57						Reset Total, Vol = 95.27 bbl
06/18/2013	10:43:57	-55	0.0	12.75	90.4	90.4	
06/18/2013	10:46:02	92	2.9	12.65	90.5	90.5	
06/18/2013	10:48:43						Start Mixing Tail Slurry
06/18/2013	10:48:43	628	6.5	15.72	5.0	5.0	
06/18/2013	10:49:02	620	6.4	15.73	7.0	7.0	
06/18/2013	10:51:25						End Tail Slurry
06/18/2013	10:51:25	-35	4.2	15.87	0.1	0.1	
06/18/2013	10:51:26						Reset Total, Vol = 32.42 bbl
06/18/2013	10:51:26	-56	4.2	15.87	0.2	0.2	
06/18/2013	10:51:27						Drop Top Plug
06/18/2013	10:51:27						Start Displacement
06/18/2013	10:51:27	-60	2.3	15.91	0.2	0.2	
06/18/2013	10:52:02	-56	0.0	15.95	0.3	0.3	
06/18/2013	10:55:02	137	3.2	9.89	1.2	1.2	
06/18/2013	10:58:02	96	4.8	8.43	14.1	14.1	
06/18/2013	11:01:02	248	6.6	8.31	33.5	33.5	
06/18/2013	11:04:02	331	6.6	8.30	53.4	53.4	
06/18/2013	11:07:02	342	4.7	8.30	71.4	71.4	
06/18/2013	11:10:02	286	2.3	8.30	80.1	80.1	
06/18/2013	11:10:35						Bump Top Plug
06/18/2013	11:10:35	754	0.6	8.30	81.4	81.4	
06/18/2013	11:10:36						End Displacement
06/18/2013	11:10:36	798	0.2	8.30	81.4	81.4	
06/18/2013	11:10:43						Reset Total, Vol = 75 bbl
06/18/2013	11:10:43	800	0.0	8.31	81.4	81.4	
06/18/2013	11:12:20						End Job
06/18/2013	11:12:20	-68	0.0	8.31	0.0	0.0	
06/18/2013	11:12:21	-69	0.0	8.31	0.0	0.0	
06/18/2013	11:12:21						Stopped Acquisition

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 4.5	N2	Mud 0.0	Maximum Rate 8.5	Total Slurry 127.0	Mud 0.0	Spacer 20.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 3529	Final -68	Average 433	Bump Plug to 750	Breakdown	Type	Volume	Density					
Avg. N2 Percent		Designed Slurry Volume 125.0 bbl		Displacement 75.0 bbl		Mix Water Temp 77 degF		Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 52.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To	
Customer or Authorized Representative Charlie Brown				Schlumberger Supervisor Michael Simon				Circulation Lost		<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-		-		